Fecal Coliform Bacteria Total Maximum Daily Load
Río Grande De Arecibo, Puerto Rico

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1 INTRODUCTION

Section 303(d) of the Clean Water Act and the U.S. Environmental Protection Agency's (EPA's) Water Quality Planning and Management Regulations (Title 40 of the *Code of Federal Regulations* [CFR] Part 130) require states to develop total maximum daily loads (TMDLs) for waterbodies that are not meeting their designated uses even though pollutant sources have implemented technology-based controls. A TMDL establishes the allowable load of a pollutant or other quantifiable parameters on the basis of the relationship between pollutant sources and in-stream water quality. A TMDL provides the scientific basis for a state to establish water quality-based controls to reduce pollution from both point and nonpoint sources and restore and maintain the quality of the state's water resources (USEPA 1991).

EPA Region 2 and the Puerto Rico Environmental Quality Board (PREQB) have coordinated a watershed assessment and an analysis of ambient water quality monitoring data to support the calculation of a fecal coliform bacteria TMDL for the Río Grande de Arecibo watershed in Puerto Rico. This waterbody is listed as impaired on Puerto Rico's 2008 section 303(d) list. This document presents the results of the TMDL study and provides the technical basis for calculating the TMDL.

2 PROBLEM IDENTIFICATION

2.1 Background

The Río Grande de Arecibo is in northcentral Puerto Rico (Figure 2-1). Its headwaters are in the Cordillera Central mountain range. From there, the river flows in a northerly direction toward the Atlantic Ocean, draining approximately 616 square kilometers of land. The Río Grande de Arecibo watershed is the one of the largest drainage basins in Puerto Rico and is part of the 10-digit USGS Cataloging Unit 2101000204. Major tributaries are Río Tanamá, Río Caonillas, Río Limón, Río Yunes, Río Viví, Río Guaonica, Río Pellejas, and Río Vacas. Dos Bocas, Caonillas, Jordan, Viví, Pellejas, Adjuntas, and Garzas lakes are in the watershed. The Río Grande de Arecibo watershed falls within the municipalities of Adjuntas, Arecibo, Ciales, Jayuya, and Utuado. Land use in the watershed consists of a mix of urban and rural populated sections, agriculture, pastures, and forested areas.

The Río Grande de Arecibo watershed's topography is mostly mountainous in the headwaters and level in the areas close to the river's outlet. The highest point in the watershed is Cerro Punta at 1,338 meters above sea level, which is also the highest point in Puerto Rico. The lowest point of the watershed is its outlet at sea level. The mean elevation of the watershed is 451 meters above sea level.

The Arecibo watershed has a tropical climate at lower elevations and a subtropical climate at higher elevations. Both temperatures and rainfall are affected by the northeastern trade winds. Humidity is relatively high in the summer, and most rainfall occurs between May and December. Showers, which can be locally heavy, can be expected any time of the year. Most showers have a short duration. The hurricane season runs from June to November, but hurricanes occur most often between August and October.

Because of onsite wastewater systems, urban runoff/storm sewers, collection system failure, landfills, package plants, major and minor industrial point sources, confined animal feeding operations, and agricultural practices, the Rio Grande de Arecibo system no longer meets the applicable water quality standards for Puerto Rico (PRWQSR Section 3.2.4[B][2]). As a result, Assessment Units in the Rio Grande de Arecibo watershed are listed on Puerto Rico's 2006 Clean Water Act Section 303(d) lists of impaired waterbodies for "Fecal Coliform" (Table 2-1).

Figure 2-1. The Arecibo River watershed and surrounding municipalities.

Table 2-1. Assessment units in the Rio Grande de Arecibo watershed, including those identified on Puerto Rico's section 303(d) list of impairments

BASIN	2006 Assessment Unit	State Impairment	Associated Station	Priority Ranking
RIO GRANDE DE ARECIBO	RIO GRANDE DE ARECIBO (PRNR7A1)	Fecal Coliform (1700)	50029000 50027250 A1-B	High
	RIO GRANDE DE ARECIBO (PRNR7A2)	Fecal Coliform (1700)	50025000, A3-B A3-A	High
	TUNEL (PRNR7A3)	Fecal Coliform (1700)	50020500 A3-A	High
	RIO TANAMA (PRNR7B1)	Unlisted	-	-
	RIO TANAMA (PRNR7B2)	Fecal Coliform (1700)	50028000 A-5	High
	RIO CAONILLAS (PRNR7C1)	Fecal Coliform (1700)	50026050, A4-A, A4-B	High
	RIO LIMON (PRNR7C2)	Fecal Coliform (1700)	A1-B A2-B A1-A	High
	RIO YUNES (PRNR7C3)	Fecal Coliform (1700)	A2-A A2-B	High
	LAGO DOS BOCAS (PRNL1-7A1)	Unlisted	-	-
	LAGO CAONILLAS (PRNL2-7C1)	Unlisted	-	-
	LAGO GARZAS (PRNL3-7A3)	Unlisted	-	-
	TERMINAL BASIN (AR-TB)	Unlisted	-	-

2.2 Water Quality Criteria

Impaired waters in the Arecibo River system are classified as "SD" and are subject to assessment methodologies and beneficial uses described in the "Rivers" category of Puerto Rico's 303(d) list of impaired waters. Four beneficial use categories are identified here: Primary Contact Recreation (R1); Secondary Contact Recreation (R2); Aquatic Life (AL); and Drinking Water (DW).

Of the twelve assessment units identified in Table 2-1, five are not listed. Two of the seven impaired assessment units fully support the designated uses of aquatic life or drinking water. Six of the seven impaired assessment units support the designated use of secondary contact recreation, and none support the designated use of primary contact recreation. The water quality standards that apply to these waters are as follows:

▪ Section 3.2.4.(A) of the Puerto Rico Water Quality Standards Regulations (PRWQSR) includes the following designated use for Class SD waters:

> *"Surface waters intended for use as raw water supply, propagation and preservation of desirable species, including threatened or endangered species, as well as primary and secondary contact recreation."*

▪ Section 3.2.4(B)(2) of the PRWQSR, as amended in March 2003, includes the following criteria for coliform:

> *"Coliforms: The coliform geometric mean of a series of representative samples (at least five samples) of the water taken sequentially shall not exceed 10,000 colonies/100 mL of total coliforms or 200 colonies/100 mL of fecal coliforms. Not more than 20 percent of the samples shall exceed 400 colonies/100 mL of fecal coliforms."*

The water bodies are impaired for fecal coliform bacteria, so the numeric criteria described above will define the water quality target identified for determination of the TMDL. Because the TMDL development approach uses a watershed model to compare fecal coliform bacteria concentrations against the water quality target, those streams that exhibit exceedances of the water quality targets are considered impaired by fecal coliform bacteria, and will require TMDLs, even if they were not specifically listed in the 303d list. The assessment unit described as "Terminal Basin" contains flows in this area that are not discharged to surface waters. The watershed model shows fecal coliform bacteria exceeding water quality standards throughout the watershed for remaining eleven waters in Table 2-1. Therefore, all eleven waters are impaired by fecal coliform bacteria, and require TMDLs.

2.3 Pollutant Sources

Potential sources that contribute fecal coliform bacteria can be grouped into two categories: point and nonpoint sources. Point sources include permitted discharges that were calculated based on National Pollutant Discharge Elimination System (NPDES) limits for each facility and permitted stormwater under NPDES General Permit PRR040000 for Discharges from Small Municipal Separate Storm Sewer Systems (MS4). Nonpoint sources are diffuse and include watershed contributions (e.g., non-permitted stormwater runoff and septic contributions; estimated based on population data) and local sources.

2.3.1 Point Sources

A point source, according to Title 40 of the *Code of Federal Regulations* (CFR), Section 122.3, is any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, and vessel or other floating craft from which pollutants are or may be discharged. The National Pollutant Discharge Elimination System (NPDES) program, established under Clean Water Act sections 318, 402, and 405, requires permits for the discharge of pollutants from point sources.

NPDES permit information was obtained from EPA's Permit Compliance System (PCS) database and verified with PREQB for 13 total permitted facilities in the Arecibo River watershed. The data from PREQB include permit limits for the 13 active facilities, which were compiled and used in the configuration of the Loading Simulation Program C++ (LSPC) model. See Figure 2-2 for the locations of these facilities, and Sections 4 and 5 for details on how point sources were accounted for in the TMDL. Table 2-2 shows the permitted flows, concentrations, and calculated fecal coliform bacteria loads for each permitted facility. This table include the filter plant because each one, have permit to discharge fecal coliforms bacteria. However, this does not mean that these are currently discharging above their limits, it just means that these are allowed to discharge up to a certain concentration in the effluent.

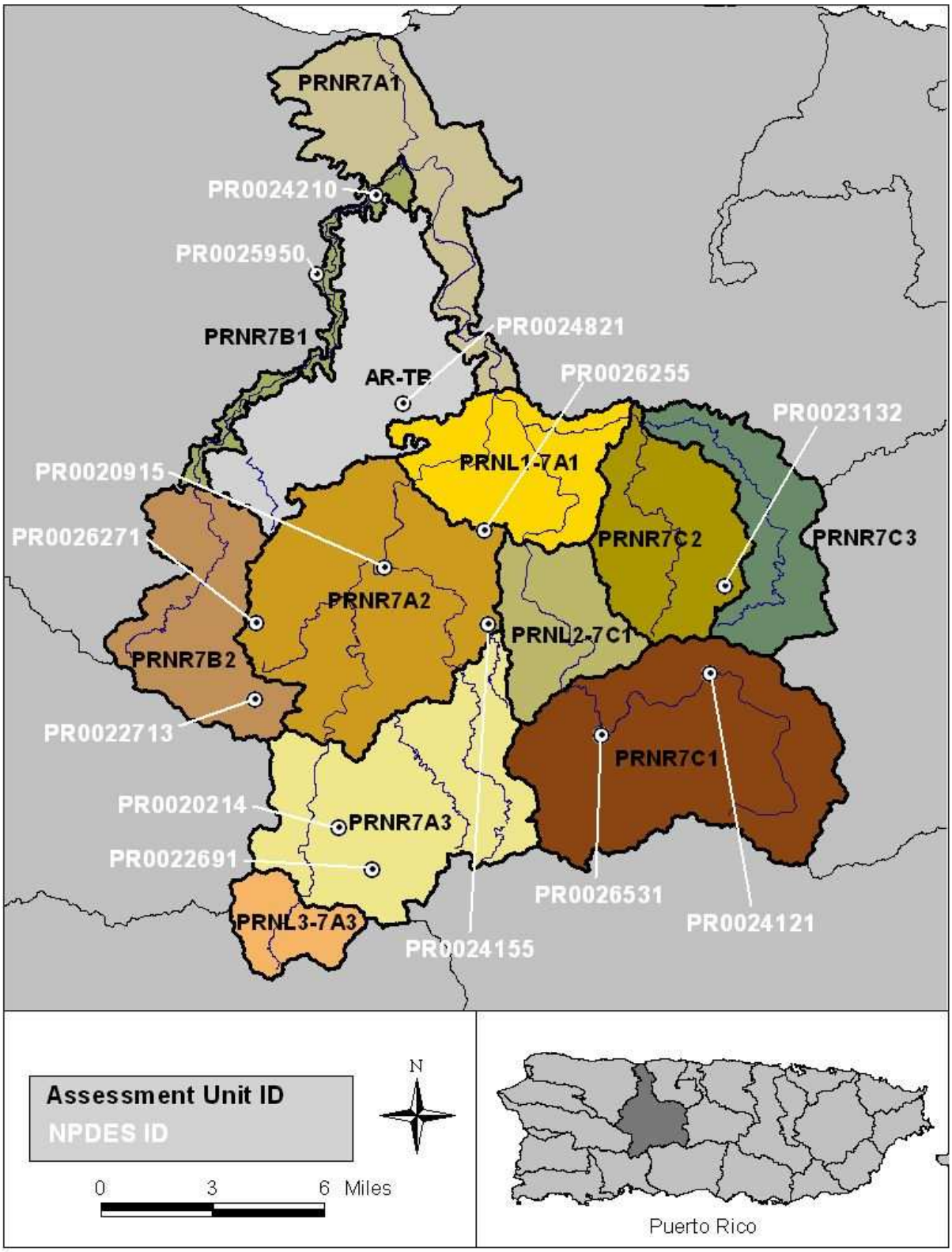

Figure 2-2. Permitted facilities in the Arecibo watershed.

Table 2-2. Permitted loads from NPDES facilities

NPDES ID	Facility Name	Present MGD	Present CFS	Permitted MGD	Permitted CFS	Present FC (#/100 mL)	Permitted FC (#/100 mL)	Present FC (#/day)	Permitted FC (#/day)
PR0020214	PRASA ADJUNTAS	0.3449	0.5336	0.5530	0.8556	232	2000	3.03E+09	4.19E+10
PR0022691	PRASA WTP ADJUNTAS	0.0048	0.0075	0.0400	0.0619	3	2000	5.85E+05	3.03E+09
PR0026271	PRASA - RONCADOR WTP	0.1600	0.2476	0.1600	0.2476	3	200	1.82E+07	1.21E+09
PR0024155	PRASA WTP UTUADO	0.0238	0.0369	0.1050	0.1625	498	2000	4.49E+08	7.95E+09
PR0026255	PRASA - SABANA GRANDE WARD WTP	0.0180	0.0279	0.0180	0.0279	180	400	1.23E+08	2.73E+08
PR0024121	PRASA WTP JAYUYA FILTER PLANT	0.0125	0.0193	0.1400	0.2166	194	2000	9.19E+07	1.06E+10
PR0026531	PRASA - JAYUYA (NEW) WWTP	0.5510	0.8525	1.0000	1.5472	180	200	3.75E+09	7.57E+09
PR0023132	SECOND UNIT MAMEYES SCHOOL	0.0025	0.0038	0.0100	0.0155	114	2000	1.07E+07	7.57E+08
PR0020915	PRASA_- UTUADO	0.7200	1.1140	0.7200	1.1140	162406	400	4.43E+12	1.09E+10
PR0022713	PRASA WTP TANAMA	0.0120	0.0186	0.0120	0.0186	3	2000	1.35E+06	9.09E+08
PR0024210	PRASA WTP ARECIBO	0.0333	0.0516	0.1570	0.2429	2271	2000	2.86E+09	1.19E+10
PR0025950	PRASA - ESPERANZA FILTER PLANT	0.0479	0.0741	0.0479	0.0741	2	2000	3.63E+06	3.63E+09
PR0024821	CAMPAMENTO CROZIER JOBOS WARD	0.0123	0.0190	0.0048	0.0074	215	2000	9.98E+07	3.63E+08
							Total:	**4.44E+12**	**1.01E+11**

Runoff from "urbanized areas" (UAs)[1] as defined by the Bureau of the Census is defined as a point source discharge, while runoff from urban areas outside of the Census' UAs is considered a non-point source discharge. A geographical information system (GIS) coverage of UAs from the 2000 Census was used to separate the urban areas into municipal separate storm sewer systems (MS4s) and non-MS4 urban areas. Table 2-3 presents the estimated fecal coliform bacteria loads from MS4 areas in the Arecibo watershed.

Table 2-3. Estimated fecal coliform bacteria loads for MS4 areas

Urbanized Area	County	Urban Code	Assessment Unit	Baseline (#/day FC Bacteria)
Aguadilla--Isabela--San Sebastian, PR	Utuado	631	PRNR7B1	7.31E+06
Aguadilla--Isabela--San Sebastian, PR	Utuado	631	PRNR7B2	4.21E+08
Arecibo, PR	Arecibo	3034	PRNR7A1	7.79E+09
Arecibo, PR	Arecibo	3034	PRNR7B1	5.85E+07
Florida--Barceloneta--Bajadero, PR	Arecibo	30115	AR-TB	2.11E+08
Florida--Barceloneta--Bajadero, PR	Arecibo	30115	PRNR7A1	3.25E+09
Florida--Barceloneta--Bajadero, PR	Arecibo	30115	PRNR7B1	1.59E+08
San Juan, PR	Ciales	79093	PRNR7C3	3.33E+06
			Totals:	**1.19E+10**

[1] http://cfpub.epa.gov/npdes/stormwater/urbanmapresult.cfm?state=PR

2.3.2 Nonpoint Sources

Nonpoint sources are considered diffuse sources of pollution. They may contribute to a waterbody due to rainfall-runoff processes or diffusely during dry conditions. The following subsections describe potential sources of fecal coliform bacteria to the Arecibo River system and identify likely contributors. These sources are ultimately used as the basis for load estimation and TMDL determination.

2.3.2.1 Agriculture

Agricultural land, which typically consists of cropland, pastureland, and refined animal management, represents significant percentage of the total watershed acreage. Land use data from the year 2000 was obtained by associating the classified land cover distribution determined using an ERDAS Imagine[2] imagery by the International Institute of Tropical Forestry (IITF) into land use areas which classifies 12,572 acres as agricultural land. This acreage represents 8.3% of the watershed, and may have a significant impact on fecal coliform bacteria levels downstream. Table 2-4 provides livestock populations from a variety of facility types in the watershed. The bacteria load from these animals was combined with background loads during the modeling process for a refined estimate of bacteria loading.

Table 2-4. Livestock operations in the Arecibo watershed

Watershed	Animal	Type of Facility	Type of Facility	# of Facilities	# of Animals
Arecibo	HOG	PORQUERIZA	Hog Farm	3	151
Arecibo	CHICKEN	GALLINAS PONEDORAS	Chicken Farm	1	42000
Arecibo	HORSE	POTRERO	Horse Farm	1	7
Arecibo	COW	VAQUERIA	Cow Farm	12	2991

EPA's Bacteria Indicator Tool provides loading rates of fecal coliform bacteria by type of animal. Fecal coliform bacteria accumulation rates were calculated using these rate of production per animal, the number of animals, and the areas covered by these facilities. The background fecal coliform bacteria accumulation rate was added to these estimates. Table 2-5 shows these calculations.

[2] AERDAS Imagine@ is a specific format of geospatial imagery. The imagery used was provided by the International Institute of Tropical Forestry (IITF). IITF=s work is documented in the following reference:
Helmer, E.H., O. Ramos, T. del Mar Lopez, M. Quiñones,and W. Diaz. 2002. *Mapping forest type and land cover of Puerto Rico, a component of the Caribbean biodiversity hotspot.* Caribbean Journal of Science 38:165-183.

Table 2-5. Fecal coliform bacteria accumulation rates for agricultural landuses in the Arecibo watershed

Watershed	Landuse	Animal	Bacteria Indicator Tool Rate #/animal/day	Total FC Accumulation #/day	Area (ac)	FC Accumulation Rate (counts/ac/day)	FC Accumulation Rate + Background (counts/ac/day)
Arecibo	Agriculture	CHICKEN	1.36E+08	5.71E+12	21.13		
Arecibo	Agriculture	HOG	1.08E+10	1.63E+12	793.73	9.01E+09	1.70E+10
Arecibo	Pasture	COW	1.01E+11	3.01E+14	14279.08		
Arecibo	Pasture	HORSE	4.20E+08	2.94E+09	2846.88	1.76E+10	2.56E+10

2.3.2.2 Non-Permitted Urban Runoff

Urban areas are generally characterized by higher percentages of impervious land due to cover of the land surface by pavement, concrete, and buildings. Higher percentages of impervious area, if not properly managed, result in higher surface runoff potential due to the reduced ability of water to infiltrate into the ground during rainfall events. As water runs the land and paved surfaces, debris and pollutants such as fecal coliform bacteria are entrained and subsequently flow into storm drains and ditches which lead to local coastal water bodies. Harmful bacteria and viruses from pet wastes carried by urban runoff to a waterbody, can contribute to shellfish contamination, harm other aquatic life and threaten human health. Studies have shown that fecal coliform bacteria levels are typically high in urban runoff (USEPA, 2001), and thus may be a significant source of pollution to the Arecibo River system.

EPA's Bacteria Indicator Tool includes fecal coliform accumulation rates for single family low density residential, single family high density residential, and multifamily residential landuses. We estimated the modeled low/medium density residential landuse accumulation rate as the average of both single family low density and single family high density residential. We also estimated the medium/high density residential landuse accumulation rate as the average of both single family high density and multifamily residential, as shown on Table 2-6. Table 2-7 presents the estimated fecal coliform bacteria loads from nonpermitted stormwater by assessment unit and land cover type for the Arecibo watershed.

Table 2-6. Urban landuse accumulation rates of fecal coliform bacteria

Landuse	FECALTOOL Loading Rate (count/ac/day)	Modeled Landuse	Average Loading Rate (count/ac/day)
Single family low density	1.03E+07		
		= Low / Medium Density	1.35E+07
Single family high density	1.66E+07		
		= Medium / High Density	2.00E+07
Multifamily residential	2.33E+07		

Table 2-7. Nonpermitted stormwater fecal coliform bacteria loads by assessment unit and land cover type

Landuse Type	Units	Assessment Unit ID					
		AR-TB	PRNL1-7A1	PRNL2-7C1	PRNL3-7A3	PRNR7A1	PRNR7A2
Urban High Density	(#/day FC Bacteria)	0.00E+00	2.47E+07	2.12E+07	0.00E+00	4.78E+08	8.08E+07
Urban Low Density	(#/day FC Bacteria)	8.91E+08	2.37E+09	1.56E+09	4.02E+08	1.13E+09	1.14E+10
Landuse Type	Units	Assessment Unit ID					
		PRNR7A3	PRNR7B1	PRNR7B2	PRNR7C1	PRNR7C2	PRNR7C3
Urban High Density	(#/day FC Bacteria)	2.83E+07	1.58E+07	0.00E+00	1.06E+07	1.06E+07	1.06E+07
Urban Low Density	(#/day FC Bacteria)	1.01E+10	2.89E+08	3.17E+09	1.11E+10	2.97E+09	2.55E+09

2.3.2.3 Wastewater Disposal

In addition to urban runoff contributions, other opportunities for contribution of fecal coliform bacteria from human waste to the Arecibo River system include:

- Illegal discharges of untreated wastewater,
- Groundwater transport of leachate to a waterbody from failed septic systems, and
- Leaking sewage mains.

All of these processes are more common in areas with higher populations, for instance, in residential or commercial zones. Residential septic systems in the Arecibo River system treat human waste using a collection system that discharges liquid waste into the soil through a series of distribution lines that comprise the drain field. Fecal coliform bacteria naturally die-off as the effluent percolates through the soil to the groundwater. These systems effectively remove fecal coliform bacteria when properly installed and maintained. A septic system failure occurs when there is a discharge of waste to the soil surface where it is available for washoff into surface waters. Failing septic systems can deliver high bacteria loads to surface waters, depending on the proximity of the discharge to a waterbody and the timing of rainfall events. Septic system failures typically occur in older systems that are not adequately maintained with periodic sewage pump-outs.

Septic system failure may be a more significant source of fecal coliform bacteria in the watershed, based on census data for the region. Based on 2000 Census data, the estimated population in the watershed is 95,875. Based on unpublished sanitary system data (from Oficina Sistemas Información, unknown date) obtained for the nearby Manatí watershed (see Appendix A), it is estimated that approximately 67 percent (63,916) of the population in this watershed is serviced by on-site septic systems, and approximately 29 percent (27,907) are serviced by latrine systems. The remaining population (4,052) is estimated to be sewered. To calculate a fecal coliform bacteria load from failing septic systems, a 100% failure rate was used for latrines, and a 10% failure rate was used for

septic systems (a rate used in the Salt River Bay BOD TMDL (2004)). The USEPA Onsite Wastewater Treatment Systems Manual [EPA-625-R-00-008; 02/01/2002] provides an estimate of average daily wastewater flows in residential systems of between 50 and 70 GPCD for residential dwellings built before 1994 and between 40 and 60 GPCD for residential dwellings built after 1994 (U.S. Energy Policy Act standards went into effect in 1994). Considering the nature of the housing stock of the unsewered areas in Puerto Rico, an estimate of 50 GPCD was selected to develop a population-based estimate. Horsley and Witten (1996) estimated that septic system discharge contains a concentration of 1e4 colony forming units (CFU) /100mL, while Metcalf and Eddy (1991) estimated typical concentrations in untreated sewage at 1e6 CFU/100mL. Based on these estimates, an average value of 1e5 CFU/100mL was selected for use in the TMDL. Table 2-8 presents the estimated septic loading rates by modeled subwatershed. A map with modeled subwatersheds is shown in Figure 4-1.

Table 2-8. Fecal coliform bacteria loading rates from failing septic systems by subwatershed

Subwatershed	Assessment Unit	Population	Population Sewered	Population on Septics	Population Other	Population Failing Septics Systems	Flowovercharge per person (cfs)	Total Flow (cfs)	Fecal coliform concentration (#/100mL)	Fecal coliform load (#/day)
2011	PRNL3-7A3	1151	321	695	134	203	50	0.015742	1.00E+05	3.85E+10
2021	PRNR7A3	7310	2110	4390	810	1249	50	0.096609	1.00E+05	2.36E+11
2022	PRNR7A3	538	155	323	60	92	50	0.007112	1.00E+05	1.74E+10
2031	PRNR7A3	2192	633	1316	243	374	50	0.028962	1.00E+05	7.09E+10
2041	PRNR7A2	1950	595	1158	197	313	50	0.024200	1.00E+05	5.92E+10
2051	PRNR7A3	1326	405	788	134	213	50	0.016451	1.00E+05	4.02E+10
2061	PRNR7A3	260	79	155	26	42	50	0.003231	1.00E+05	7.90E+09
2071	PRNR7A2	7145	2180	4244	722	1146	50	0.088659	1.00E+05	2.17E+11
2081	PRNR7C1	14050	4476	8608	966	1827	50	0.141339	1.00E+05	3.46E+11
2082	PRNL2-7C1	954	296	574	84	142	50	0.010969	1.00E+05	2.68E+10
2083	PRNL2-7C1	1352	413	803	137	217	50	0.016779	1.00E+05	4.11E+10
2091	PRNR7C3	3244	926	2094	223	433	50	0.033467	1.00E+05	8.19E+10
2101	PRNR7C2	3803	1177	2282	344	572	50	0.044247	1.00E+05	1.08E+11
2102	PRNL1-7A1	422	129	250	42	68	50	0.005222	1.00E+05	1.28E+10
2111	PRNL1-7A1	417	127	247	42	67	50	0.005169	1.00E+05	1.26E+10
2112	PRNL1-7A1	747	253	426	68	111	50	0.008580	1.00E+05	2.10E+10
2121	PRNR7A2	11116	3356	6616	1144	1806	50	0.139685	1.00E+05	3.42E+11
2122	PRNL1-7A1	1219	372	724	123	195	50	0.015119	1.00E+05	3.70E+10
2123	PRNL1-7A1	474	198	244	32	57	50	0.004391	1.00E+05	1.07E+10
2131	PRNR7B2	3606	1074	2152	380	595	50	0.046031	1.00E+05	1.13E+11
2132	PRNR7B1	1155	491	588	76	135	50	0.010438	1.00E+05	2.55E+10
2133	PRNR7B1	277	140	125	12	24	50	0.001880	1.00E+05	4.60E+09
2141	PRNR7A1	131	66	59	6	11	50	0.000887	1.00E+05	2.17E+09
2142	PRNR7A1	4011	2026	1814	171	352	50	0.027228	1.00E+05	6.66E+10

Subwatershed	Assessment Unit	Population	Population Sewered	Population on Septics	Population Other	Population Failing Septics Systems	Flowovercharge per person (cfs)	Total Flow (cfs)	Fecal coliform concentration (#/100mL)	Fecal coliform load (#/day)
2143	PRNR7A1	1474	745	667	63	129	50	0.010008	1.00E+05	2.45E+10
2144	PRNR7A1	19710	9956	8916	838	1730	50	0.133801	1.00E+05	3.27E+11
2151	AR-TB	5839	2465	2984	390	688	50	0.053260	1.00E+05	1.30E+11
							Totals:	**0.989464**		2.42E+12

2.3.2.4 Background Conditions

Background fecal coliform bacteria loads are from non-human, natural sources. Their contributions can be directly to a waterbody or to the watershed surface where they are ultimately carried to a waterbody. Watershed contributions can be estimated from water quality data collected at headwater stations where the contributing land consists almost entirely of natural landscape with little or no human influence. However, no headwater stations of this type exist for the Arecibo River study area. Native bird and mammal populations residing in and around the streams may contribute fecal coliform bacteria directly to the river system. Similarly, flocks of native or migrating birds may land for a short time, and contribute to the bacteria load before departing.

The fecal coliform accumulation rate for background conditions was calculated using an estimate of 10 small animals per sq. mile. A rate of 8.02E9 count/animal/day was used. This value is the average loading rate for small animals from EPA's Bacteria Indicator Tool. An estimated 50 percent of the accumulated load was assumed to be available for runoff to carry into the streams. Using these inputs, the estimated accumulation rate of fecal coliform bacteria for forested areas was 6.26E7 count/acre/day.

2.4 Current Conditions

The TMDLs for the Arecibo River basin were developed based on conditions that existed from 1995 to 2004. This time frame is concurrent with the majority of the available ambient water quality and flow data. Although data were collected over a significant time frame and at regular intervals, they do not demonstrate insight to suggest improvement or deterioration over this time period. However, seasonal trends are observed. Section 3 summarizes the available data.

3 DATA ANALYSIS

3.1 Monitoring Data

The Arecibo River system suffers from elevated fecal coliform bacteria concentrations. Data from a representative station for the Arecibo River watershed was reviewed to obtain an initial estimate of critical conditions in the watershed. Water quality stations that also measure flow are most useful for this initial analysis, since flow provides also insight into meteorological conditions and thus the sources impacting the waterbody.

In the Arecibo watershed, thirteen USGS gages are maintained, and are listed in Table 3-1. The locations of the stations, as well as water quality stations maintained by PREQB, are shown in Figure 3-1 and have been verified by PREQB staff.

Table 3-1. USGS gages in the Arecibo River basin

Site No.	Station Name	Elevation (ft)	Drainage Area (mi^2)
50020500	Río Grande de Arecibo Near Adjuntas	1443	12.7
50021030	Río Pellejas above Central, Pellejas	1148	6.8
50021700	Río Grande de Arecibo above Utuado	508	36.0
50024950	Río Grande de Arecibo Below Utuado	295	65.6
50025155	Río Saliente at Coabey Near Jayuya	1706	9.3
50025850	Río Jauca at Paso Palma	358	6.9
50026025	Río Caonillas at Paso Palmas	984	37.9
50026400	Río Yunes at Highway-140 Near Florida	492	13.9
50027000	Río Limón above Lago Dos Bocas	312	33.2
50027750	Río Grande de Arecibo above Arecibo	30	174.0
50028000	Río Tanamá near Utuado	938	18.4
50028400	Río Tanamá at Charco Hondo	60	22.2
50029000	Río Grande de Arecibo at Central Cambalache	4	200.0

USGS gage 50029000, or Río Grande de Arecibo at Central Cambalache, provides coincident flow and bacteria data (n=94) collected between 1969 and 2005. This station provides the highest quantity of coincident flow and water quality data points in the watershed, so this station was used to further investigate flow (and thus seasonal) conditions in the Arecibo watershed. Table 3-2 presents the data in tabular format and categorizes the data by flow percentile. These data are shown graphically in Figure 3-2. The data shown in Table 3-2 and Figure 3-2 suggest that the majority of bacteria loading occurs during higher flow conditions in the watershed.

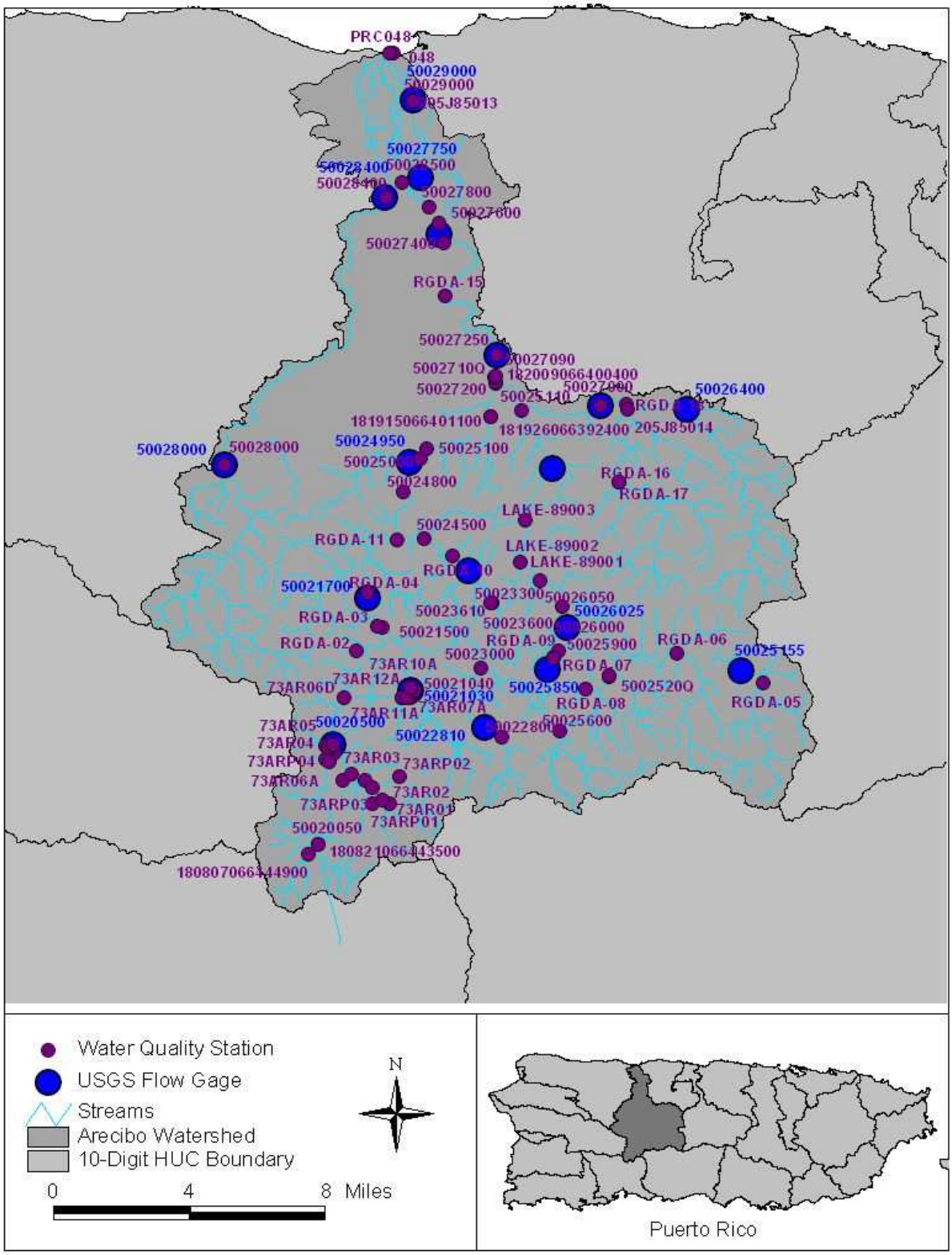

Figure 3-1. Flow and water quality stations in the Arecibo River watershed.

Table 3-2. Fecal coliform bacteria data grouped by flow percentile at USGS station 50029000

Flow Range	# Obs	Flow (cfs)			Concentration (#/100mL)			
Percentile	*Count*	*Mean*	*Min*	*Max*	*Mean*	*Median*	*Min*	*Max*
0-10	11	94	48	117	459	270	18	2,000
10-20	11	155	121	203	197	140	30	680
20-30	10	223	209	239	436	215	40	2,000
30-40	11	271	242	306	2,048	280	100	13,000
40-50	10	327	307	351	2,727	660	64	18,000
50-60	11	408	360	446	1,047	530	25	3,000
60-70	10	498	457	541	878	225	60	3,000
70-80	11	607	551	672	6,899	1,000	300	41,000
80-90	10	787	672	850	3,151	1,035	230	17,000
90-100	11	1,408	861	2,170	3,099	2,000	400	8,000

Note: Data from: 11/14/1969 to 8/23/2005 (106 Observations)

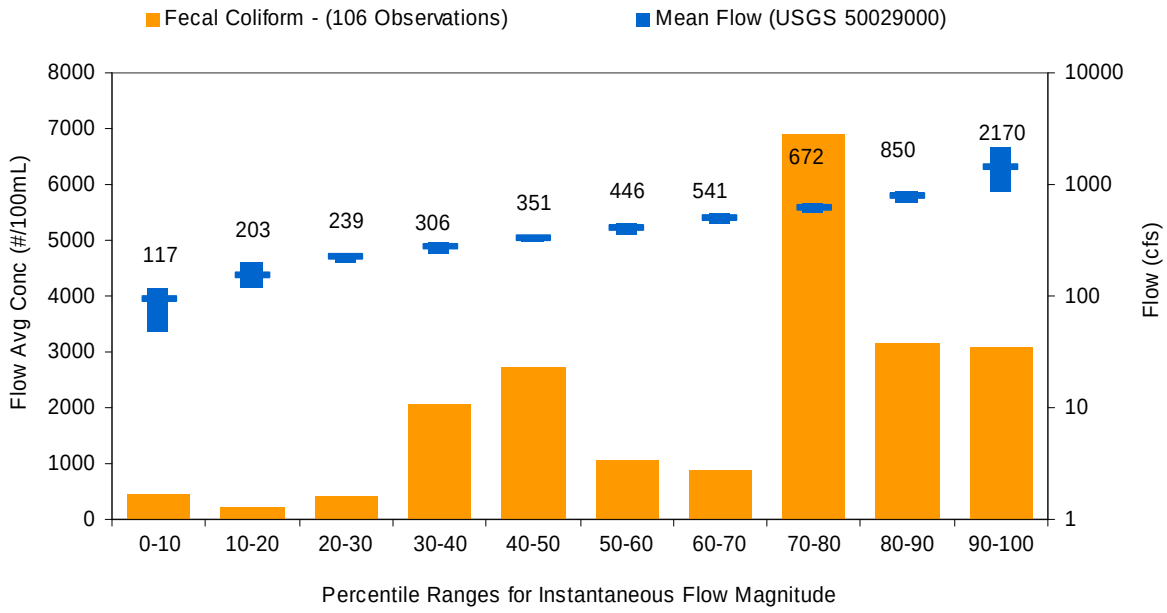

Figure 3-2. Bacteria data grouped by flow percentile at USGS station 50029000.

Although Tables 3-2 and Figure 3-2 clearly suggest that higher flows exhibit higher fecal coliform bacteria concentrations, all flow percentiles exhibit average bacteria concentrations higher than the geomean criteria concentration of 200 colonies per 100 mL except for the 20-30th percentile flows. Additionally, all flow percentile categories have exceeded the criteria of 400 colonies per 100 mL. Therefore, non-point source loading of bacteria is likely a significant source of bacteria in this watershed. The Source Assessment section discusses potential point source and non point source contributions in the watershed.

3.2 Critical Conditions

The goal of the TMDL is to determine the assimilative capacity of a waterbody based on prescribed water quality standards and to identify potential allocation scenarios that enable the waterbody to achieve the standards. The critical condition is the set of environmental conditions for which controls designed to protect water quality will ensure attainment of objectives for all other conditions. This is typically the period of time in which the impaired water body exhibits the most vulnerability.

Puerto Rico experiences relatively high humidity in the summer, and most rainfall occurs between May and December. Showers, which can be locally heavy, can be expected any time of the year. Most showers have a short duration. The hurricane season runs from June to November, but hurricanes occur most often between August and October.

Flow data from the watershed were used to identify whether elevated bacteria levels occur during rainfall events (and are likely watershed-driven) or during dry conditions. Available data for the watershed were evaluated with respect to seasonality to identify possible trends and critical conditions. As shown in Section 3.1, the data suggests that high-flow conditions, which occur during the hurricane season, are the critical periods in the watershed.

The TMDL analytical framework (further described in subsequent sections) predicts bacteria concentrations in-stream and in tidally-influenced portions of the system based on all sources present. It should be noted that the TMDL analytical approach considers all conditions for TMDL development, not only the critical condition. It also considers dry condition sources (e.g., septic system failure) in addition to rainfall-driven sources.

4 ANALYTICAL APPROACH

Establishing the relationship between the in-stream water quality targets and source loadings is a critical component of TMDL development. It allows for evaluation of management options that will achieve the desired source load reductions necessary to meet water quality standards. The link can be established through a range of techniques, from qualitative assumptions based on sound scientific principles to sophisticated modeling techniques. Ideally, the linkage will be supported by monitoring data that allow the TMDL developer to associate certain waterbody responses with flow and loading conditions. This section presents the approach taken to develop the linkage between sources and in-stream response for TMDL development in the Arecibo River watershed.

A watershed model is a useful tool for providing a quantitative linkage between sources and in-stream response. It is essentially a series of algorithms applied to watershed characteristics and meteorological data to simulate naturally occurring land-based processes over an extended period, including hydrology and pollutant transport. Many watershed models are also capable of simulating in-stream processes using the land-based and subsurface calculations as input. Once a model has been adequately set up and calibrated for a watershed it can be used to quantify the existing loading of pollutants from subwatersheds or from land use categories and also can be used to assess the impacts of a variety of management scenarios.

In order to support TMDL development objectives and evaluate the linkage between bacteria sources and in-stream water quality, an analytical framework combining a tidal prism model of the tidal portions of the Arecibo River mainstem and a detailed watershed loading model. The Loading Simulation Program C++ (LSPC) model was used to simulate source loading and attenuation of bacteria in the watershed, and the results of the model were applied to a separate, tidal prism (or box model) style representation of the tidal portions of the watershed.

The following technical factors were critical to selecting an appropriate watershed model to support development of the Arecibo watershed TMDLs:

- The model should be able to address a variety of pollutants including the pollutants of concern (e.g., bacteria).
- The model should be able to simulate processes and interactions in the surface and subsurface environments.
- The model should be able to address a watershed with mixed land uses.
- The model should provide adequate time-step estimation of flow and not over-simplify storm events to provide accurate representation of rainfall events and resulting peak runoff.
- The model should be able to represent large reservoir features.
- The model should be capable of simulating various pollutant transport mechanisms (e.g., groundwater contributions, sheet flow).

The Loading Simulation Program C++ (LSPC) (USEPA 2003a) was selected for simulation of watershed hydrology and water quality. The present version of LSPC includes algorithms for simulation of pollutant accumulation and washoff of land surfaces, and is a component of the USEPA's TMDL Modeling Toolbox (Toolbox) (USEPA 2003b), which has been developed through a joint effort between USEPA and Tetra Tech. LSPC integrates comprehensive data storage and management capabilities and a dynamic watershed model (a re-coded version of USEPA's Hydrological Simulation Program – FORTRAN [HSPF] [Bicknell et al., 1996]) that dictates no software requirements.

Because LSPC is based on a re-coded version of HSPF, a brief overview of HSPF is provided here. HSPF is a comprehensive watershed and receiving water quality modeling framework that was originally developed in the mid-1970s. During the past several years it has been used to develop hundreds of USEPA-approved TMDLs and it is generally considered the most advanced hydrologic and watershed loading model available. The hydrologic portion of HSPF is based on the Stanford Watershed Model (Crawford and Linsley 1966), which was one of the pioneering watershed models developed in the 1960s. The HSPF framework is developed in a modular fashion with many different components that can be assembled in different ways, depending on the objectives of the individual project. The model includes three major modules:

- PERLND for simulating watershed processes on pervious land areas
- IMPLND for simulating processes on impervious land areas
- RCHRES for simulating processes in streams and vertically mixed lakes

All three of these modules include many subroutines that calculate the various hydrologic and water quality processes in the watershed. Many options are available for both simplified and complex process formulations. Spatially, the watershed is divided into a series of subwatersheds representing the drainage areas that contribute to each of the stream reaches. These subwatersheds are then further subdivided into segments representing different land uses. Temporally, land and stream segment processes are simulated at an hourly time step for this effort.

For the developed areas, the land use segments are further divided into the pervious (PERLND) and impervious (IMPLND) fractions. The stream network (RCHRES) links the surface runoff and groundwater flow contributions from each of the land segments and subbasins and routes them through the waterbodies using storage routing techniques. The stream model includes precipitation and evaporation from the water surfaces as well as flow contributions from the watershed, tributaries, and upstream stream reaches. Flow withdrawals can also be accommodated. The stream network is constructed to represent all of the major tributary streams, as well as different portions of stream reaches where significant changes in water quality occur.

4.1 Watershed Model Configuration

The LSPC model was configured for the areas contributing to impaired streams in the Arecibo River watershed and then used to simulate a series of hydrologically connected subwatersheds. Configuration of the model involved subdividing the watersheds into modeling units, followed by continuous simulation of flow and water quality for these units using meteorological, land use, soils, stream, and bacteria data. Development and application of the watershed model to address the project objectives involved the following major steps:

1. Watershed Delineation
2. Configuration of Key Watershed Model Components
3. Watershed Model Calibration and Validation

4.1.1 Watershed Delineation

Watershed delineation refers to the subdivision of the entire watershed into smaller, discrete subwatersheds for modeling and analysis. LSPC calculates watershed processes based on user defined, hydrologically connected subwatersheds. This subdivision was primarily based on stream networks and topographic variability and secondarily on the locations of flow and water quality monitoring stations to facilitate model calibration. 27 subwatersheds were defined for the Arecibo River watershed, as shown in Table 4-1 and Figure 4-1.

Table 4-1. Modeled subbasins defined for the Rio Grande de Arecibo watershed

Subbasin	AU Code	Asessment Unit Name	Area (ac)
2011	PRNL3-7A3	LAGO GARZAS	3,920
2021	PRNR7A3	TUNEL	7,873
2022	PRNR7A3	TUNEL	1,543
2031	PRNR7A3	TUNEL	5,443
2041	PRNR7A2	RIO GRANDE DE ARECIBO	4,173
2051	PRNR7A3	TUNEL	4,149
2061	PRNR7A3	TUNEL	818
2071	PRNR7A2	RIO GRANDE DE ARECIBO	5,605
2081	PRNR7C1	RIO CAONILLAS	23,521
2082	PRNL2-7C1	LAGO CAONILLAS	2,457
2083	PRNL2-7C1	LAGO CAONILLAS	4,943
2091	PRNR7C3	RIO YUNES	8,808
2101	PRNR7C2	RIO LIMON	11,077
2102	PRNL1-7A1	LAGO DOS BOCAS	1,649
2111	PRNL1-7A1	LAGO DOS BOCAS	1,629
2112	PRNL1-7A1	LAGO DOS BOCAS	2,851
2121	PRNR7A2	RIO GRANDE DE ARECIBO	12,662
2122	PRNL1-7A1	LAGO DOS BOCAS	3,169
2123	PRNL1-7A1	LAGO DOS BOCAS	1,442
2131	PRNR7B2	RIO TANAMA	11,511
2132	PRNR7B1	RIO TANAMA	2,696

Subbasin	AU Code	Asessment Unit Name	Area (ac)
2133	PRNR7B1	RIO TANAMA	520
2141	PRNR7A1	RIO GRANDE DE ARECIBO	457
2142	PRNR7A1	RIO GRANDE DE ARECIBO	5,442
2143	PRNR7A1	RIO GRANDE DE ARECIBO	1,281
2144	PRNR7A1	RIO GRANDE DE ARECIBO	5,681
2151	AR-TB		16,840

One of the subwatersheds (modeled segment 2151 shown in Figure 4-1) represents a terminal drainage basin, meaning that flows and loads in this area are not discharged to surface waters in the Rio Grande de Arecibo HUC. Modeled subwatershed 2151 represents assessment unit “AR-TB,” shown in Figure 2-2. This was an unnamed assessment unit that was given this reference for the purposes of this TMDL. This subwatershed was modeled but not linked to the simulated reach network. Therefore, flows and pollutant loads were simulated but were not discharged to the mainstem Río Grande de Arecibo.

4.1.2 Configuration of Key Watershed Model Components

Configuration of the watershed model involved consideration of the following five major components:

- Waterbody representation
- Land use representation
- Meteorological data
- Hydrologic representation
- Pollutant representation

These components provided the basis for the LSPC model’s ability to estimate flow and pollutant loadings. Detailed discussions about the development of each component for the LSPC model are provided in the following subsections.

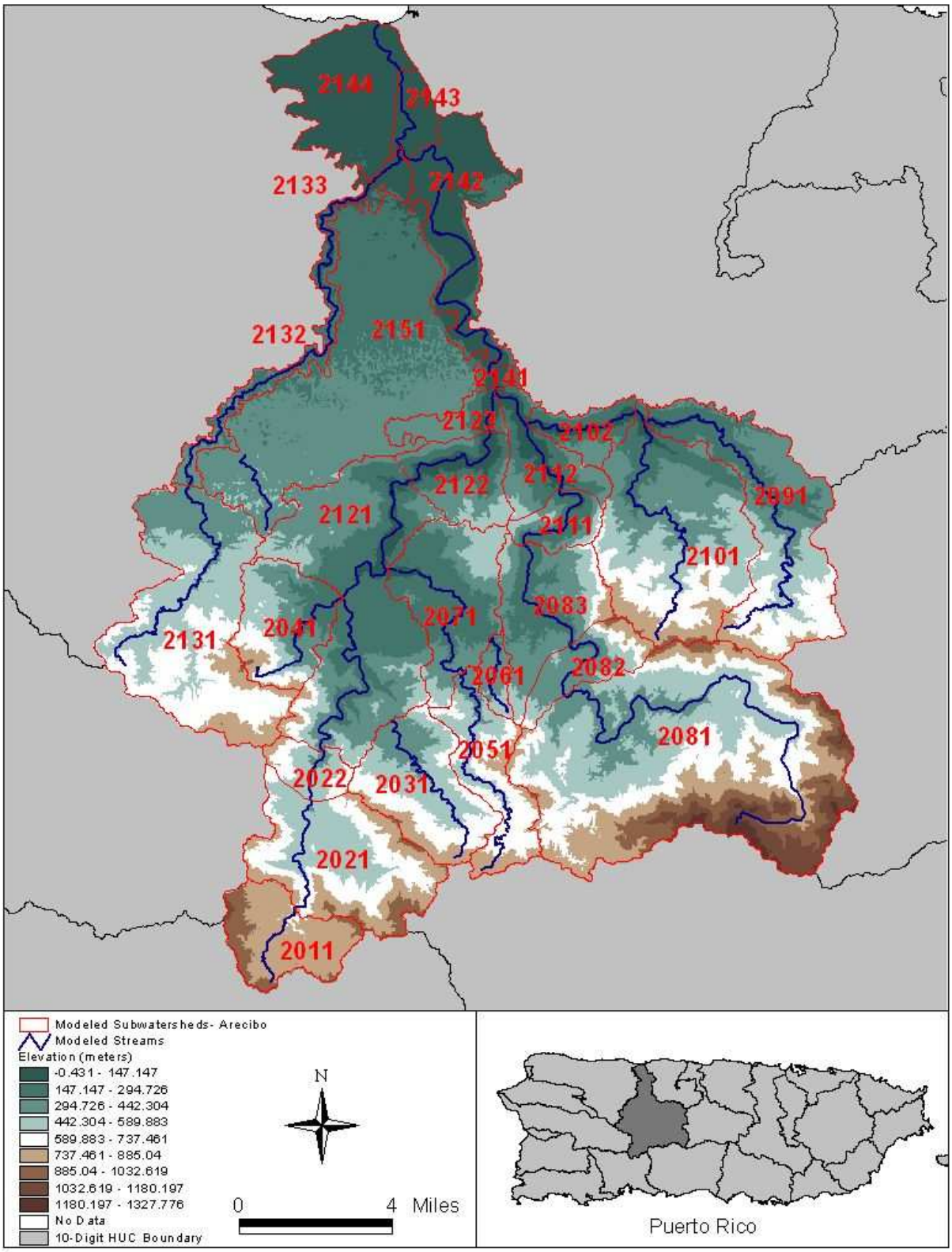

Figure 4-1. **Modeled subwatersheds and stream network.**

4.1.2.1 Waterbody Representation

Waterbody representation refers to modules, or algorithms, in the LSPC model used to simulate flow and pollutant transport through streams, rivers, and lakes. Each delineated subwatershed was represented with a single stream or lake feature. Streams are assumed to be completely mixed, one-dimensional segments with a constant trapezoidal cross-section. USEPA's National Hydrography Dataset (NHD) stream reach network was used to determine the representative stream length for each subwatershed. The stream lengths were used along with the 30-meter National Elevation Dataset to calculate reach slope.

Assuming representative trapezoidal geometry for all streams, mean stream depth and channel width were estimated using regression curves that relate upstream drainage area to stream dimensions (Rosgen 1996). Rating curves consisted of a representative depth-outflow-volume-surface area relationship. Estimated Manning's roughness coefficients of 0.02 were applied to each representative stream reach based on typical literature values for natural streams (Chapra 1997).

In addition to the streams, which route flow and transport pollutants through the modeled stream network, one reservoir exists in the Arecibo watershed (Lago Dos Bocas) that is large enough to impound a significant quantity of flow and pollutants. To represent these reservoirs in the watershed model, the length, width, storage characteristics, and spillway attributes were obtained for this reservoir and are shown in Table 4-2.

Table 4-2. Dimensions of Dos Bocas Reservoir and dam characteristics

Dam	Value	Unis	Source
Capacidad original	37.5	10^6 m^3	http://pubs.usgs.gov/sir/2007/5053/pdf/SIR2007_5053.pdf
Porciento de capacidad perdida	53%	Perdido	http://pubs.usgs.gov/sir/2007/5053/pdf/SIR2007_5053.pdf
Capacidad restante (al 1999)	18.04	10^6 m^3	http://pubs.usgs.gov/sir/2007/5053/pdf/SIR2007_5053.pdf
Vertedor	110	meters	http://pubs.usgs.gov/sir/2007/5053/pdf/SIR2007_5053.pdf
Area del lago	1.68	sq. km	http://pubs.usgs.gov/sir/2007/5053/pdf/SIR2007_5053.pdf
Profundidad actual	21.5	meters	http://pubs.usgs.gov/sir/2007/5053/pdf/SIR2007_5053.pdf

Outflow from Dos Bocas is regulated, and a USGS streamflow gage exists downstream of Dos Bocas Dam (USGS 50027750) to monitor flow from this feature. The Dos Bocas reservoir is located near the midpoint of the watershed. The reservoir is dam-regulated to conserve waters for low flow augmentation of the Rio Grande de Arecibo. Therefore, stage-dependent flow represented by a weir equation did not produce a good initial comparison at the USGS gage downstream, so the flow rate measured at the downstream gage was applied as a withdrawal from the modeled reservoir and added as a direct input to the subwatershed immediately downstream of the reservoir.

4.1.2.2 Land Use Representation

The LSPC watershed model requires a basis for distributing hydrologic and pollutant loading parameters. Hydrologic variability within a watershed is influenced by land surface and subsurface characteristics. Variability in pollutant loading is highly correlated to land use practices. Land use representation provides the basis for distributing soils and pollutant loading characteristics throughout the watershed. Land use data was obtained from the International Institute of Tropical Forestry (ITFF) and used as the basis for estimating pollutant loading from nonpoint sources. These data provide landuse data circa 2000, which falls within the model calibration and validation periods (1995 – 2004) discussed later in this section.

LSPC algorithms require that land use categories be divided into separate pervious and impervious land units for modeling. This division was made for the appropriate land uses (primarily urban) to represent impervious and pervious areas separately. The division was based on typical impervious percentages associated with different land use types from the Soil Conservation Service's TR-55 Manual (USDA 1986) as summarized in Table 4-2. Land use distribution in the Arecibo River watershed is shown in Figure 4-2.

Table 4-3. Land cover data and for the Arecibo River watershed and aggregation into simulated land use categories

ID	Land Cover Description	Modeled LU	Area (ac)	%
0	Background/water	Water	0	0.0%
1	High-Medium Density Urban	High Density Urban	647	0.4%
2	Low-Medium Density Urban	Low Density Urban	8,572	5.6%
3	Herbaceous Agriculture - Cultivated Lands	Agriculture	0	0.0%
4	Active Sun Coffee and Mixed Woody Agriculture	Agriculture	12,836	8.4%
5	Pasture, Hay or Inactive Agriculture (e.g. abandoned sugar cane)	Pasture	1,093	0.7%
6	Pasture, Hay or other Grassy Areas (e.g. soccer fields)	Pasture	23,522	15.5%
7	Drought Deciduous Open Woodland	Forest	0	0.0%
8	Drought Deciduous Dense Woodland	Forest	31	0.0%
9	Deciduous, Evergreen Coastal and Mixed Forest or Shrubland with Succulents	Forest	7	0.005%
10	Semi-Deciduous and Drought Deciduous Forest on Alluvium and Non-Carbonate Substrates	Forest	9	0.01%
11	Semi-Deciduous and Drought Deciduous Forest on Karst (includes semi-evergreen forest)	Forest	888	0.6%
12	Drought Deciduous, Semi-deciduous and Seasonal Evergreen Forest on Serpentine	Forest	0	0.0%
13	Seasonal Evergreen and Semi-Deciduous Forest on Karst	Forest	10,230	6.7%
14	Seasonal Evergreen and Evergreen Forest	Forest	67,740	44.5%
15	Seasonal Evergreen Forest with Coconut Palm	Forest	1	0.001%
16	Evergreen and Seasonal Evergreen Forest on Karst	Forest	9,952	6.5%
17	Evergreen Forest on Serpentine	Forest	0	0.0%
18	Elfin, Sierra Palm, Transitional and Tall Cloud Forest	Forest	13,524	8.9%
19	Emergent Wetlands Including Seasonally Flooded Pasture	Wetland	0	0.0%
20	Salt or Mud Flats	Wetland	0	0.0%
21	Mangrove	Wetland	16	0.011%
22	Seaonally Flooded Savannahs and Woodlands	Wetland	2	0.001%
23	Pterocarpus Swamp	Wetland	0	0.0%
24	Tidally Flooded Evergreen Dwarf-Shrubland and Forb Vegetation	Wetland	0	0.0%
25	Quarries	Barren	0	0.0%
26	Coastal Sand and Rock	Barren	0	0.0%
27	Bare Soil (including bulldozed land)	Barren	1,078	0.7%
28	Water - Permanent	Water	2,006	1.3%
	TOTAL		***152,155***	***100%***

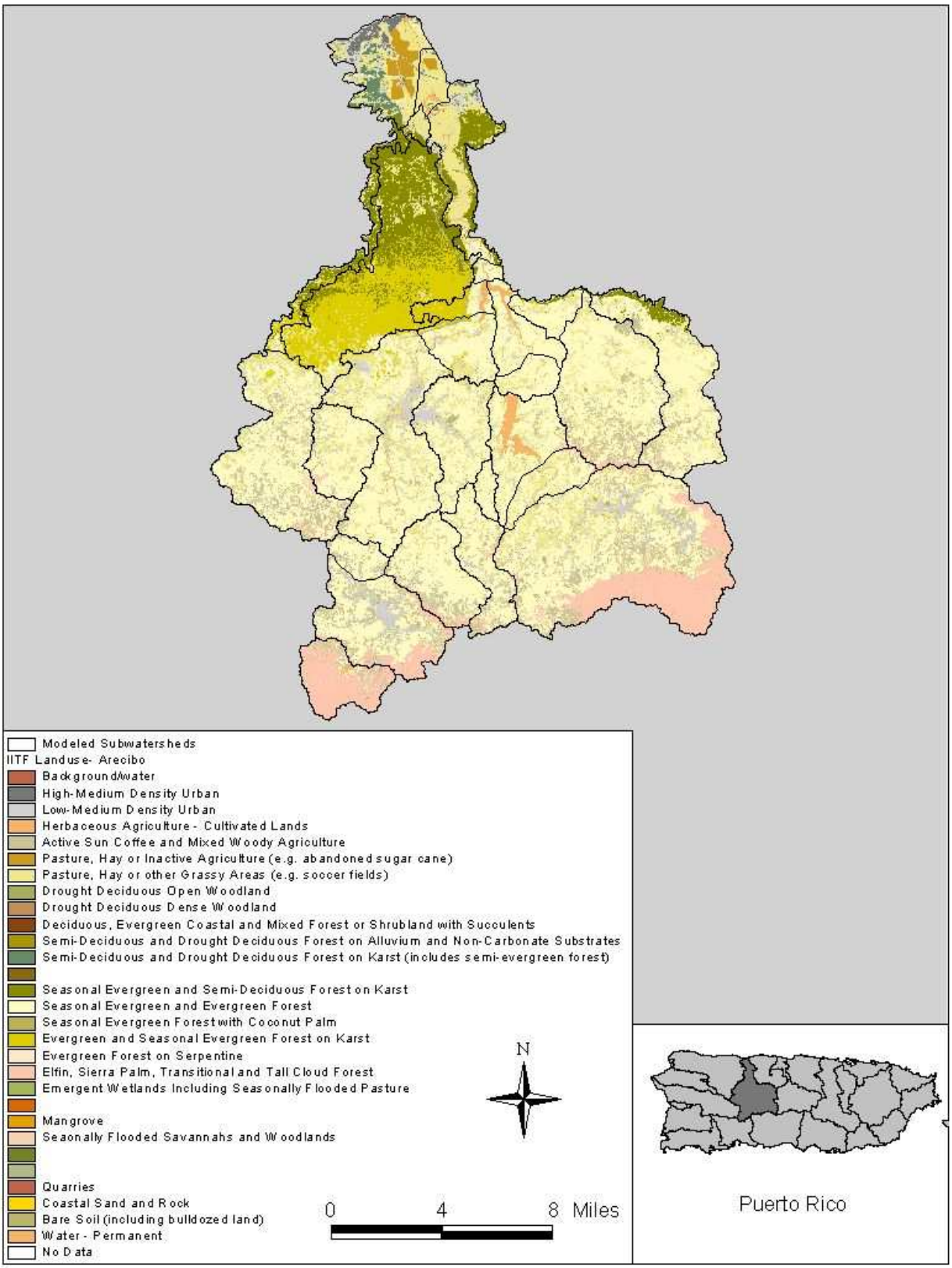

Figure 4-2. Land cover distribution in the Arecibo River watershed.

4.1.2.3 Hydrologic Representation

Hydrologic representation refers to the LSPC modules or algorithms used to simulate hydrologic processes (e.g., surface runoff, evapotranspiration, and infiltration). The LSPC PWATER (water budget simulation for pervious land segments) and IWATER (water budget simulation for impervious land segments) modules, which are identical to those in HSPF, were used to represent hydrology for all pervious and impervious land units (Bicknell et al. 1996). Designation of key hydrologic parameters in the PWATER and IWATER modules of LSPC were required. These parameters are associated with infiltration, groundwater flow, and overland flow. U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS) STATSGO Soils Database served as a starting point for designation of infiltration and groundwater flow parameters. STATSGO data are shown in Figure 4-3. For parameter values not easily derived from these sources, documentation on recent HSPF applications was reviewed. Starting values were refined through the hydrologic calibration process (described in Section 4.1.3.1).

4.1.2.4 Meteorological Representation

Meteorological data are a critical component of the watershed model, and appropriate representation of precipitation and evapotranspiration are required to develop a valid modeling system. These data provide necessary input to LSPC algorithms for hydrologic and water quality representation. Meteorological data have been accessed for a number of weather stations in an effort to develop the most representative dataset for the Arecibo River watershed. Weather station attributes are listed in Table 4-3, and the locations of these sources are shown in Figure 4-4. Hourly precipitaton and minimum and maximum daily temperature records were obtained from EarthInfo's weather CD set. The original source of the data is the National Climatic Data Center (NCDC).

Table 4-4. Attributes of weather stations represented in the watershed model

Parameter	Station ID	STATION	Lat (dd)	Long (dd)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Avg Monthly Prec., in	PR0053	ADJUNTAS 1 NW	18.1731	-66.7281	4.5	2.4	2.8	5.5	9.7	4.8	5.3	8.6	13.0	9.4	5.3	2.6
Avg Monthly Prec., in	PR0410	ARECIBO 3 ESE	18.4533	-66.6747	3.2	2.4	2.8	3.8	6.2	2.7	2.7	4.4	5.2	6.0	4.9	3.7
Avg Monthly Prec., in	PR0426	ARECIBO OBSERVATORY	18.3494	-66.7525	3.5	3.5	4.1	7.2	11.6	6.0	6.6	8.2	9.7	10.7	6.9	4.8
Avg Monthly Prec., in	PR4910	JAYUYA	18.2150	-66.5931	3.5	3.2	3.6	6.2	9.4	4.6	4.5	7.8	12.6	10.4	7.2	3.8
Avg Monthly Prec., in	PR3431	DOS BOCAS	18.3361	-66.6667	3.4	2.9	3.7	6.4	10.3	5.0	4.2	7.5	9.1	9.1	6.9	4.3
Avg Min Temp, oF	PR3431	DOS BOCAS	18.3361	-66.6667	63.6	62.8	63.4	65.1	67.7	69.1	70.0	70.2	69.5	68.9	67.8	65.4
Avg Max Temp, oF	PR3431	DOS BOCAS	18.3361	-66.6667	84.5	85.0	86.1	87.0	88.3	90.3	90.3	90.5	90.2	89.4	87.4	85.5

LSPC requires appropriate precipitation and potential evapotranspiration data. In general, hourly precipitation data are recommended for hydrologic modeling to assist in assessment of pollutant loading (although in some cases, such as small, flashy, highly urbanized watersheds 15-minute data may be necessary). Therefore, only weather stations with hourly-recorded data have been considered thus far in the precipitation data selection process. Rainfall-runoff processes for each subwatershed were driven by

precipitation data from the most representative station. Meteorological data from eleven stations in and around the Arecibo watershed were assessed for the watershed model.

During the processing phase of the assessment, gaps in data were identified in addition to unreasonable values that may misrepresent observed conditions. Missing and unreasonable values were encountered frequently in the precipitation and temperature datasets. Missing values were patched using a program that fills missing values with data from surrounding stations, and unreasonable values were deleted to allow for patching. The patched meteorological data were subsequently formatted for use in the modeling effort.

Potential evapotranspiration was calculated using the Hamon method. This method generates daily potential evapotranspiration (inches) using air temperature, a monthly variable coefficient, the number of hours of sunshine (computed from latitude), and absolute humidity (computed from air temperature). The computations are based on the Hamon (1961) formula.

PET = CTS * DYL * DYL * VDSAT

where

PET = daily potential evapotranspiration (in)
CTS = monthly variable coefficient
DYL = possible hours of sunshine, in units of 12 hours, computed as a function of latitude and time of year
VDSAT = saturated water vapor density (absolute humidity) at the daily mean air temperature (g/cm3)

VDSAT = (216.7 * VPSAT)/(TAVC + 273.3)

where

VPSAT = saturated vapor pressure at the air temperature
TAVC = mean daily air temperature, computed from the daily max-min data (C)

VPSAT = 6.108 * EXP((17.26939 * TAVC)/(TAVC + 237.3))

Hamon (1961) suggests a constant value of 0.0055 for CTS.

A sine function is used to disaggregate the daily PET over the daylight hours. Daylight hours are computed as a function of date and latitude (and the shape of the Earth).

The final set of LSPC weather files created include hourly precipitation and calculated potential evaportanspiration for the time period starting on 1/1/1980 through 12/31/2004. The model is run using an hourly time-step.

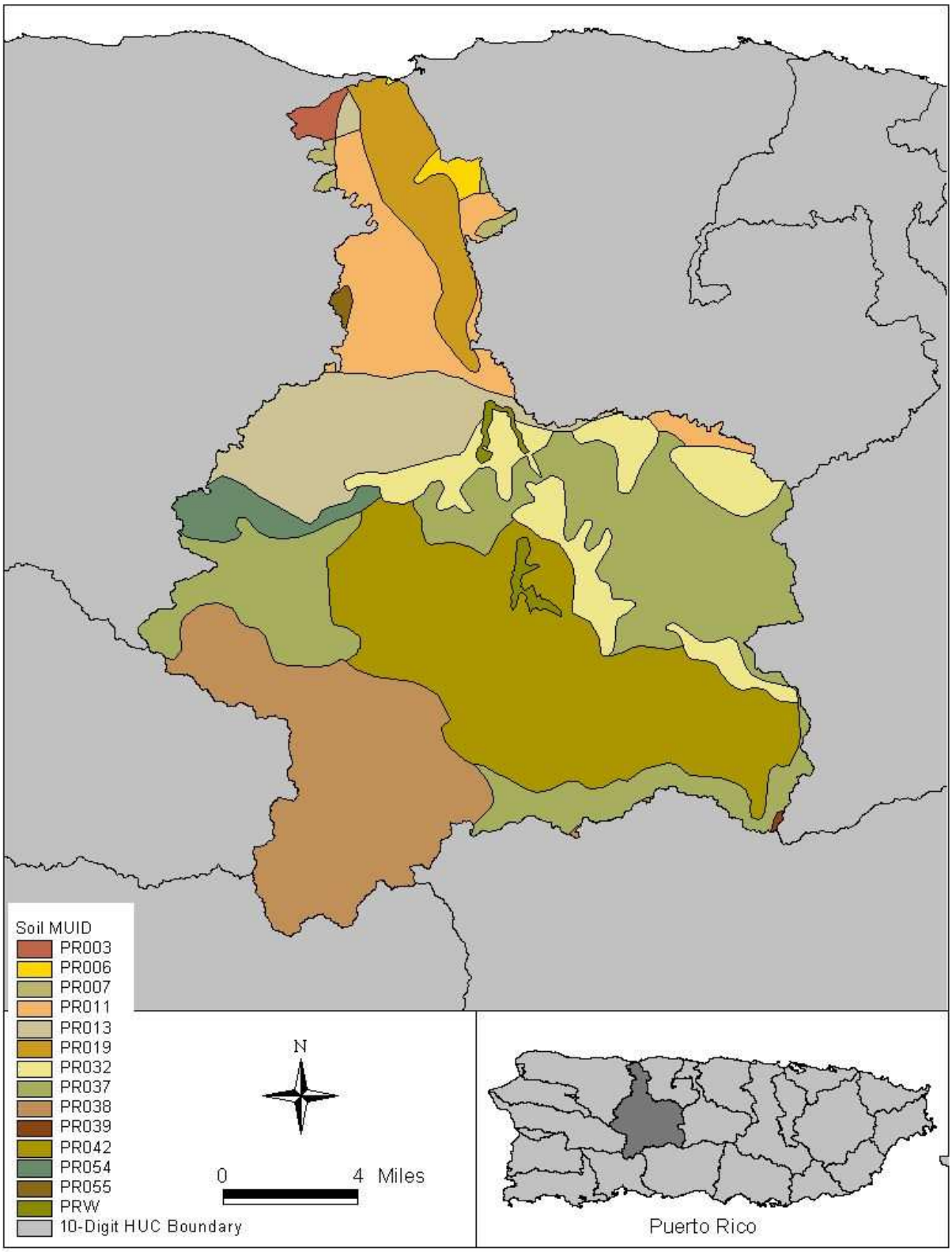

Figure 4-3. STATSGO soil data used in the LSPC watershed model.

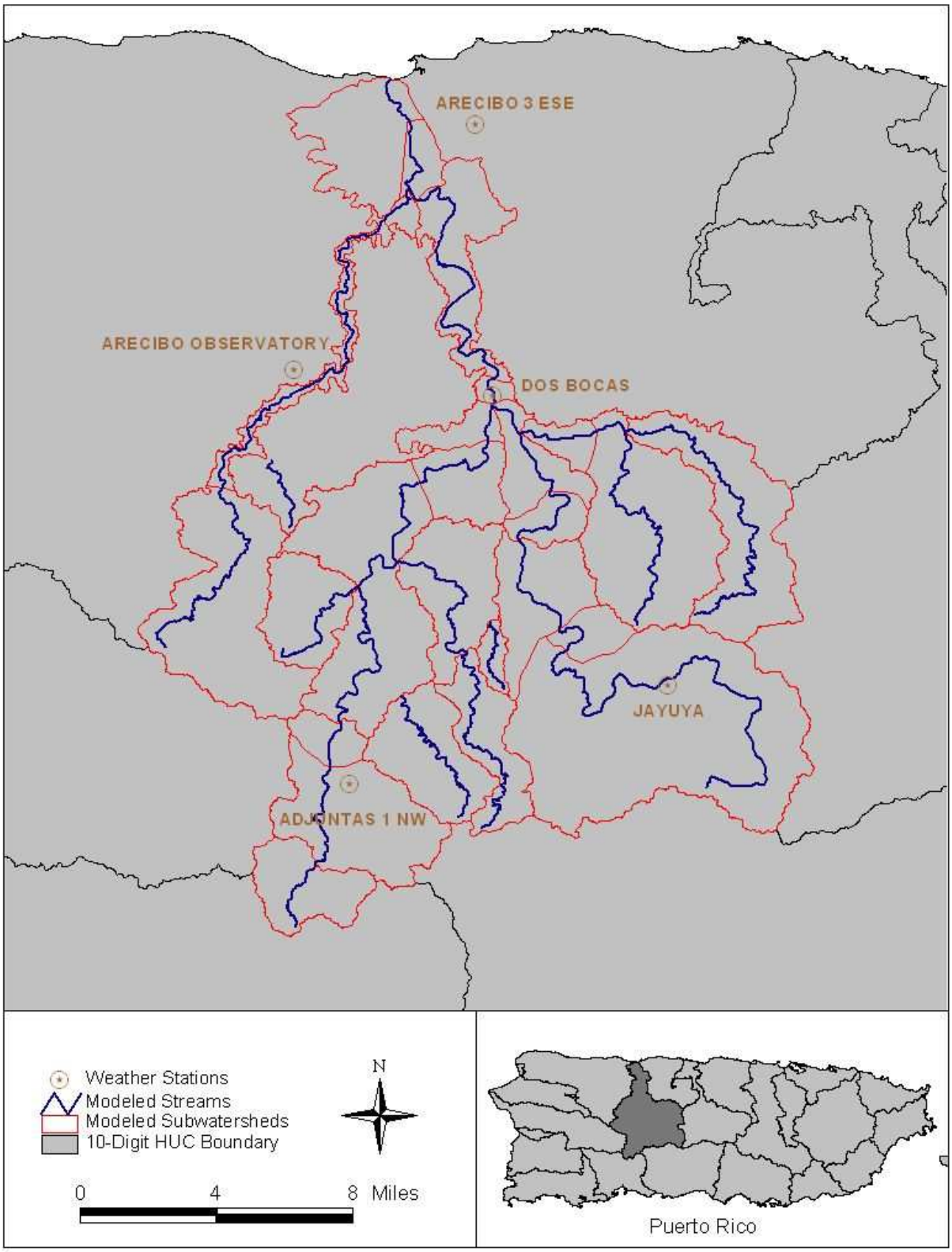

Figure 4-4. Weather stations used in the Arecibo watershed modeling process.

4.1.2.5 Pollutant Representation

Based on analysis of the water quality data in the Arecibo River watershed and potential sources listed with the impairment include onsite wastewater systems, confined animal feeding operations, and agriculture. Point sources also contribute to loading of bacteria in the Arecibo watershed.

The primary pollutant represented in the watershed model to estimate loading in the Arecibo watershed is fecal coliform bacteria. Loading processes for pollutants were represented for each land unit using the LSPC PQUAL (simulation of quality constituents for pervious land segments) and IQUAL (simulation of quality constituents for impervious land segments) modules, which are identical to those in HSPF. These modules simulate the accumulation of bacteria on the land surface and removal during overland flow, which is simulated as being removed at a rate related to the volume of water flowing over the land surface.

Point Source Representation

Point source contributions of flow and bacteria were incorporated into the model to represent the sources described in Section 2.3. Flow and pollutant concentrations obtained from discharge monitoring data (DMR) were used where available. Section 5 lists the permitted facilities represented in the model, and the corresponding loads.

DMR data were investigated to estimate the flows and associated loads for these facilities. DMR data for flow and/or bacteria concentrations were not available for all facilities. In these cases, flow and/or concentrations were estimated for these facilities instead of not assigning a load.

Nonpoint Source Representation

The watershed model distributes hydrologic and pollutant loading parameters based on land use type to appropriately represent hydrologic variability throughout the basin. This variability may be influenced by landuse-specific surface and subsurface characteristics. It is also necessary to represent variability in pollutant loading, which is highly correlated to land practices. As discussed in Section 4.1.2.2, land use data from IITF were used to configure the Arecibo LSPC model. LSPC model algorithms that simulate hydrologic and pollutant loading processes for pervious and impervious lands were then applied to the corresponding land units.

Surface and subsurface hydrologic behavior drives pollutant transport in the watershed. Based on the distribution of rainfall between the surface and subsurface components, a quantity of bacteria is washed off into a stream reach. Here, it is subject to decay as it travels through the simulated stream network.

Bacteria were modeled as a pollutant that builds up and washes off. LSPC can simulate pollutants as either sediment-associated or using a buildup-washoff relationship. To

simulate bacteria, hydrology must first be simulated and calibrated. Once this is complete, accumulation rates for the land surface are then assigned that identifies the quantity available for washoff. As rainfall removes the bacteria from the land surface, it is discharged to receiving waters proportional to the overland flow.

Fecal coliform loading rates were obtained using information from EPA's Bacterial Indicator Tool, which is a spreadsheet that estimates the bacteria contribution from multiple sources.

Thomann and Mueller (1987) present a range of die-off rates for different organisms and conditions. The average die-off rate for coliform bacteria in freshwater is 0.8 1/day. A slightly lower and more conservative value of 0.7 1/day was used in the model.

4.1.3 Watershed Model Calibration and Validation

After initially configuring the watershed model, model calibration and validation for hydrology and water quality were performed. Calibration refers to the adjustment or fine-tuning of modeling parameters to reproduce observations. Validation is performed for different monitoring stations without further adjustments to ensure the model represents other locations as well as it does at the original calibration locations and periods. For hydrology as well as water quality, the years 2000-2002 were used to calibrate the model and the 2003-2004 period was used for validation. Selection criteria for these time periods are discussed below.

4.1.3.1 Hydrology Calibration and Validation

Hydrologic calibration was performed after the initial model setup. For LSPC, calibration is an iterative procedure of parameter evaluation and refinement as a result of comparing simulated and observed values of interest. It is required for parameters that cannot be deterministically and uniquely evaluated from topographic, climatic, physical, and chemical characteristics of the watershed and compounds of interest. Calibration is based on several years of simulation to evaluate parameters under a variety of climatic conditions. The calibration procedure results in parameter values that produce the best overall agreement between simulated and observed flows throughout the calibration period. Four USGS flow gaging stations provided sufficient data for calibrating and validating the LSPC model. The "RIO GRANDE DE ARECIBO NR ADJUNTAS, PR" station, or USGS50020500 and its drainage area and elevation are listed in Table 3-1.

Calibration and validation years were selected based on an examination of annual precipitation variability and the availability of observation data. Flow data was not available prior to 4/1/2000 from station USGS50020500. The periods were determined to represent hydrologic conditions common to the region with respect to seasonal flow regimes. Calibration for these conditions is necessary to ensure that the model accurately predicts the seasonal range of conditions over the entire simulation period.

During calibration, parameters influencing the simulation of runoff, infiltration, and evapotranspiration were adjusted based on land use and soil type. Modeling parameters were varied to mirror observed temporal trends and soil and land cover characteristics. An attempt was made to keep the modeling parameters within the guidelines included in the BASINS Technical Note 6 (USEPA 2000). Key considerations in the hydrology calibration included the overall water balance, high-flow and low-flow distribution, storm flow volumes and timing, and seasonal variation. At least three criteria for goodness of fit were used for calibration: volumetric comparison, graphical comparison, and the relative error method. Calibration and validation plots, and water budget analyses for these periods are shown in Figures 4-5 and 4-6, and Tables 4-4 and 4-5, respectively.

Water budget graphical comparisons for the calibration and validation periods are shown in Figures 4-5 and 4-6. In addition, summary statistical comparisons for calibration and validation periods are shown on Table 4-4 and Table 4-5. Given the critical conditions of the TMDL, the most relevant criteria for evaluating the goodness of fit for this calibration were the percent error in total volume, 50% lowest flows, and 10% highest flows. For the calibration period, the resulting errors were -4.1%, -5.13% and 13.9%. These are all considered low errors, and well within the recommended criteria. For the validation period, the resulting errors were -7.4%, 2.8%, and -0.74%. These are also well within the recommended criteria.

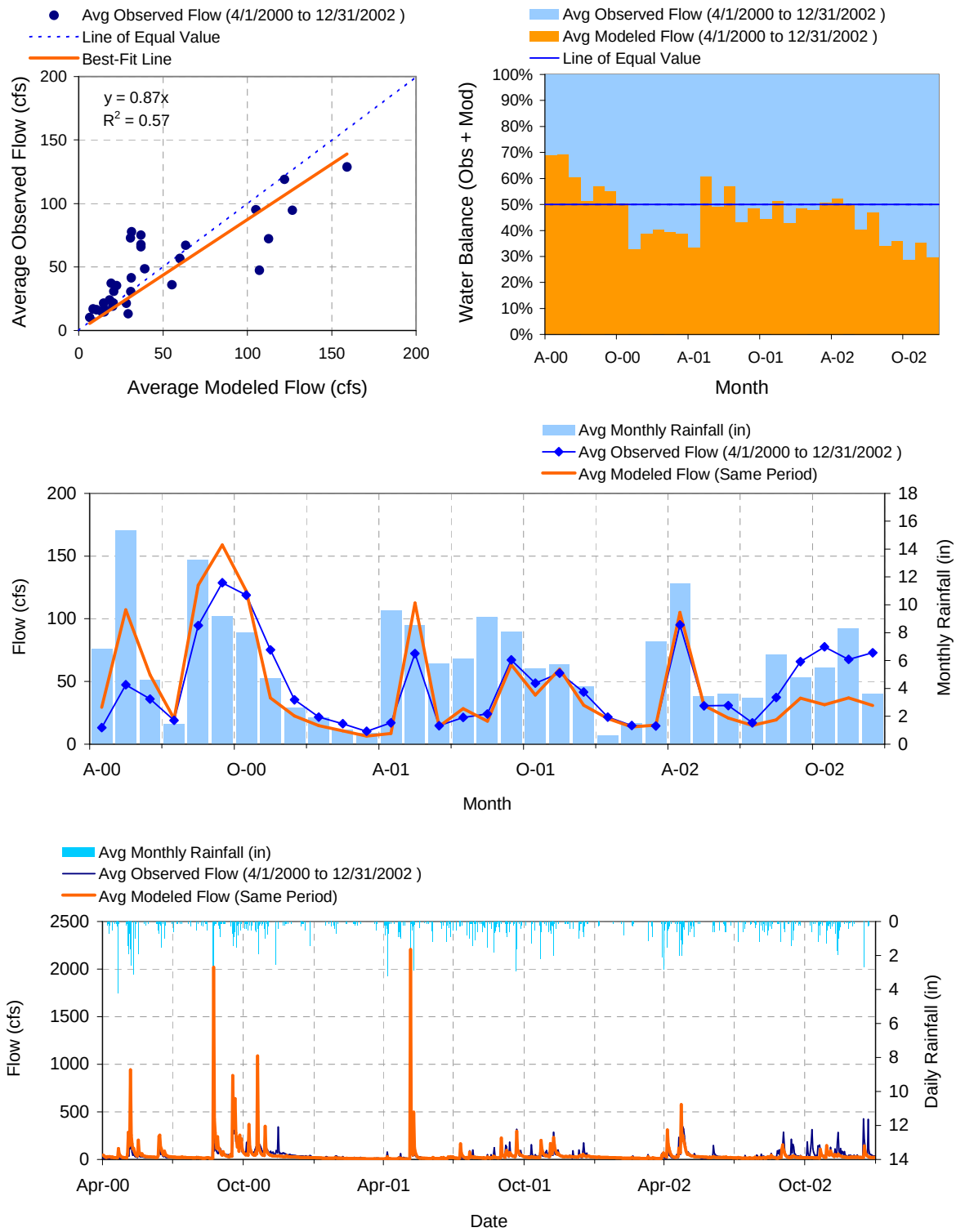

Figure 4-5. LSPC hydrology calibration for 2000-2002 at USGS 50020500 Rio Grande de Arecibo NR Adjuntas, Puerto Rico.

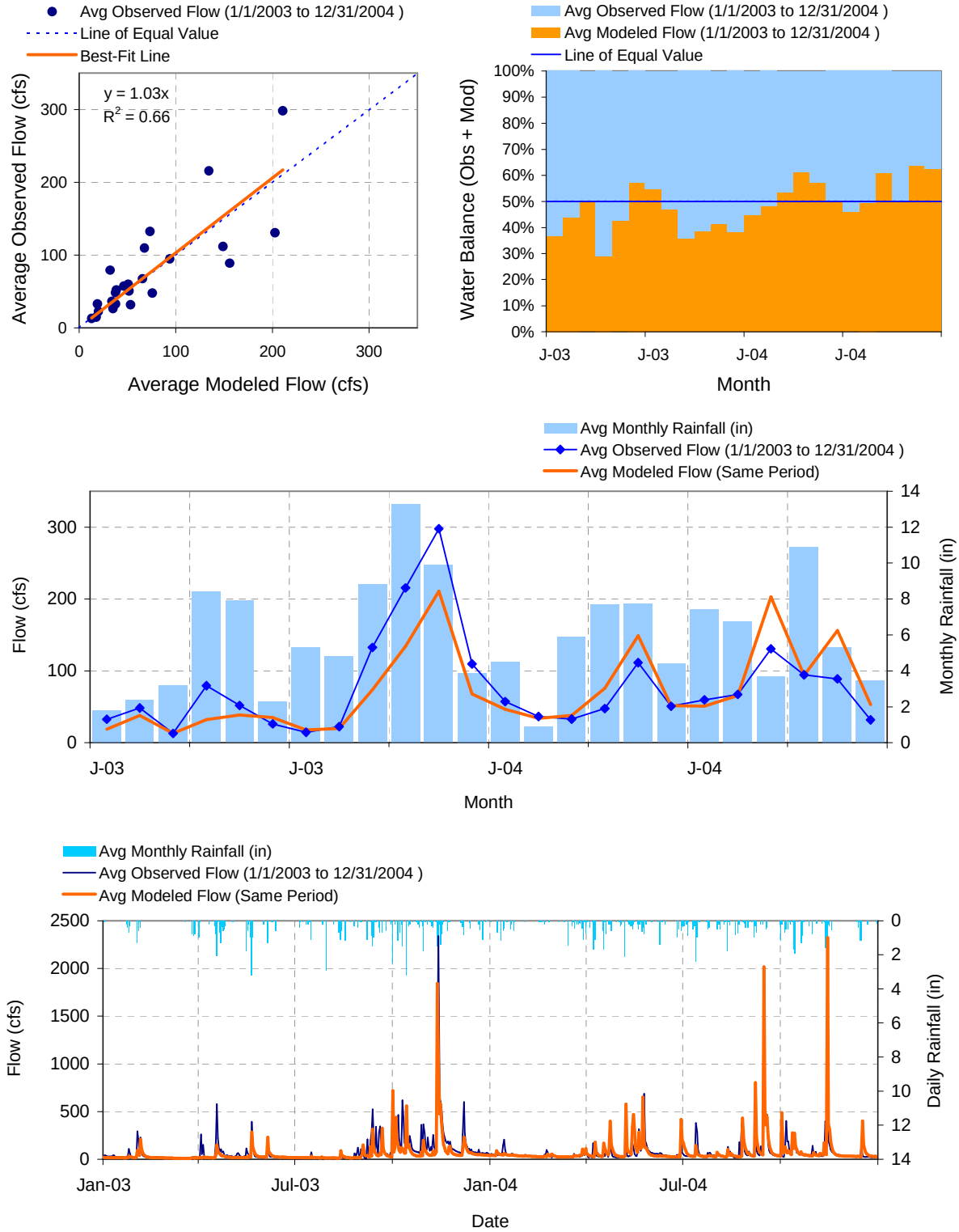

Figure 4-6. LSPC hydrology validation for 2003-2004 at USGS 50020500 Rio Grande de Arecibo NR Adjuntas, Puerto Rico.

Table 4-5. Water budget statistical comparison for 2000-2002 at USGS 50020500 (Rio Grande de Arecibo NR Adjuntas, Puerto Rico)

LSPC Simulated Flow **REACH OUTFLOW FROM SUBBASIN 2021** 2.75-Year Analysis Period: 4/1/2000 - 12/31/2002 Flow volumes are (inches/year) for upstream drainage area		**Observed Flow Gage** **USGS 50020500 RIO GRANDE DE ARECIBO NR ADJUNTAS, PR** Hydrologic Unit Code: 21010001 Latitude: 18.17968 Longitude: -66.7362856 Drainage Area (sq-mi): 12.7	
Total Simulated In-stream Flow:	**47.48**	Total Observed In-stream Flow:	**49.49**
Total of simulated highest 10% flows:	**24.70**	Total of Observed highest 10% flows:	**21.69**
Total of Simulated lowest 50% flows:	**7.92**	Total of Observed Lowest 50% flows:	**8.35**
Simulated Summer Flow Volume (months 7-9):	**15.79**	Observed Summer Flow Volume (7-9):	**15.38**
Simulated Fall Flow Volume (months 10-12):	**13.39**	Observed Fall Flow Volume (10-12):	**19.39**
Simulated Winter Flow Volume (months 1-3):	**2.59**	Observed Winter Flow Volume (1-3):	**3.17**
Simulated Spring Flow Volume (months 4-6):	**15.71**	Observed Spring Flow Volume (4-6):	**11.55**
Total Simulated Storm Volume:	**14.03**	Total Observed Storm Volume:	**13.18**
Simulated Summer Storm Volume (7-9):	**5.13**	Observed Summer Storm Volume (7-9):	**4.82**
Errors (Simulated-Observed)	*Error Statistics*	*Recommended Criteria*	
Error in total volume:	-4.05	10	
Error in 50% lowest flows:	-5.13	10	
Error in 10% highest flows:	13.88	15	
Seasonal volume error - Summer:	2.65	30	
Seasonal volume error - Fall:	-30.94	30	
Seasonal volume error - Winter:	-18.07	30	
Seasonal volume error - Spring:	36.02	30	
Error in storm volumes:	6.42	20	
Error in summer storm volumes:	6.27	50	

Table 4-6. Water budget statistical comparison for 2003-2004 at USGS 50020500 (Rio Grande de Arecibo NR Adjuntas, Puerto Rico)

LSPC Simulated Flow **REACH OUTFLOW FROM SUBBASIN 2021** 2-Year Analysis Period: 1/1/2003 - 12/31/2004 Flow volumes are (inches/year) for upstream drainage area		**Observed Flow Gage** **USGS 50020500 RIO GRANDE DE ARECIBO NR ADJUNTAS, PR** Hydrologic Unit Code: 21010001 Latitude: 18.17968 Longitude: -66.7362856 Drainage Area (sq-mi): 12.7	
Total Simulated In-stream Flow:	**76.41**	Total Observed In-stream Flow:	**82.52**
Total of simulated highest 10% flows:	**38.55**	Total of Observed highest 10% flows:	**38.83**
Total of Simulated lowest 50% flows:	**12.75**	Total of Observed Lowest 50% flows:	**12.40**
Simulated Summer Flow Volume (months 7-9):	**19.13**	Observed Summer Flow Volume (7-9):	**19.00**
Simulated Fall Flow Volume (months 10-12):	**31.94**	Observed Fall Flow Volume (10-12):	**37.46**
Simulated Winter Flow Volume (months 1-3):	**8.27**	Observed Winter Flow Volume (1-3):	**9.69**
Simulated Spring Flow Volume (months 4-6):	**17.07**	Observed Spring Flow Volume (4-6):	**16.37**
Total Simulated Storm Volume:	**23.92**	Total Observed Storm Volume:	**22.49**
Simulated Summer Storm Volume (7-9):	**6.75**	Observed Summer Storm Volume (7-9):	**5.99**
Errors (Simulated-Observed)	*Error Statistics*	*Recommended Criteria*	
Error in total volume:	-7.40	10	
Error in 50% lowest flows:	2.77	10	
Error in 10% highest flows:	-0.74	15	
Seasonal volume error - Summer:	0.69	30	
Seasonal volume error - Fall:	-14.74	30	
Seasonal volume error - Winter:	-14.63	30	
Seasonal volume error - Spring:	4.26	30	
Error in storm volumes:	6.35	20	
Error in summer storm volumes:	12.66	50	

4.1.4 Water Quality Calibration

After hydrology was sufficiently calibrated, water quality calibration was performed. The water quality calibration consisted of running the watershed model, comparing water quality output to available water quality observation data, and adjusting pollutant loading and in-stream water quality parameters within a reasonable range. Recent data were used for the calibration process to capture current conditions. Specifically, the years 1995-1999 were used for calibration and 2000-2004 were used to validate the model to maintain consistency with the hydrology calibration.

The water quality stations shown in Figure 3-1 were used for LSPC water quality calibration and validation. These stations were selected based on the quantity, age, and

temporal resolution of data. Initial water quality calibration was conducted by varying the constituent concentrations in overland flow, interflow, and groundwater. Predicted pollutant concentrations were graphically compared to observed values. Once the model was calibrated for flow and water quality, it was validated through comparison of model results representing another time period with inherently different hydrologic conditions.

The model validation was performed to test the calibrated parameters at different locations or for different periods, without further adjustment of model parameters. If the model exhibited a poor validation, then the calibration process was revisited. Upon completion of the calibration and validation at selected locations, a calibrated dataset containing parameter values for each modeled land use and soil type was obtained. The validation between ambient data and LSPC results was rudimentary in nature, based on the infrequency of data collection. All fecal coliform monitoring data used were collected quarterly. Therefore, the modeling data was verified using simple comparisons to the fecal coliform monitoring data by visual comparisons of computed versus measured data. The model captures the spatial and temporal dynamics and fecal coliform concentrations, including the cause and effect relationships between sources (loads) and water column concentrations. The model also over-predicted fecal coliform concentrations during certain low flows when compared to the ambient monitoring values. The calibrated LSPC surface accumulation rate and limit for each modeled landuse is presented in Table 4-6. Water quality calibration results at the USGS station 50026050 (to coincide with the flow calibration shown in the previous section) are shown in Figure 4-7. Validation results are shown in Figure 4-8.

Table 4-7. Calibrated LSPC accumulation rate and limit of fecal coliform bacteria by modeled landuse

Modeled Landuse	Surface Accumulation (#/day/ac)	Accumulation Limit (#/day/ac)
Water	0.00E+00	0.00E+00
Forest	6.26E+07	1.13E+08
Agriculture	9.07E+09	1.63E+10
Pasture	1.77E+10	3.18E+10
Wetland	6.26E+07	1.13E+08
Barren	2.00E+05	3.59E+05
Urban_HighD_Pervious	2.00E+07	3.59E+07
Urban_LowD_Pervious	1.35E+07	2.42E+07
Urban_HighD_Impervious	2.00E+07	3.59E+07
Urban_LowD_Impervious	1.35E+07	2.42E+07

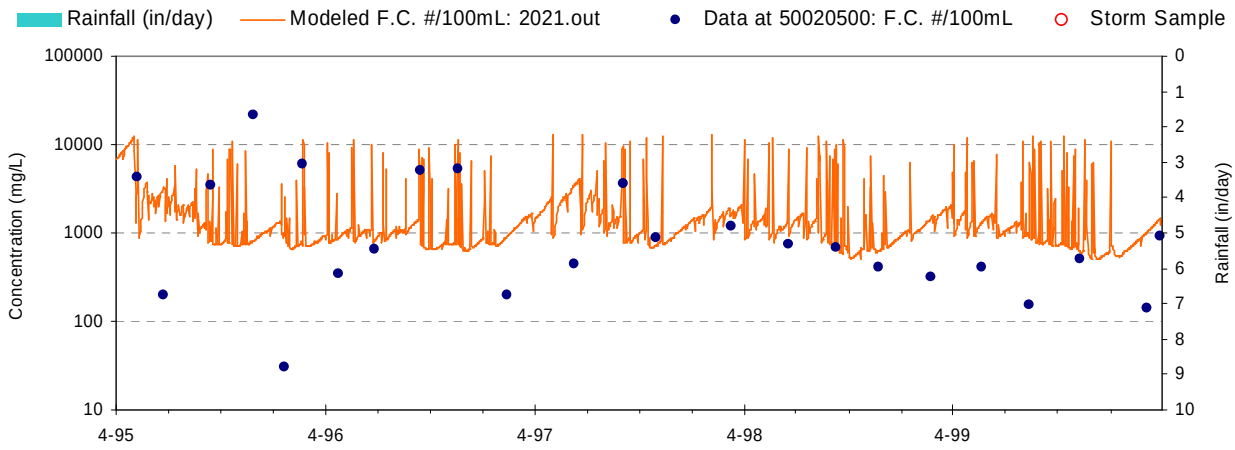

Figure 4-7. Water quality calibration at USGS station 50020500.

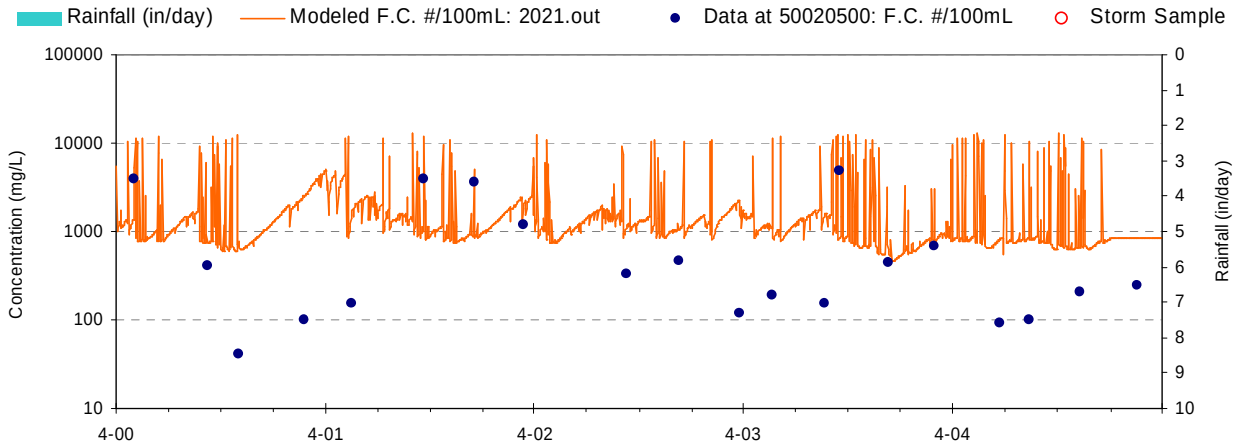

Figure 4-8. Water quality validation at USGS station 50020500.

Overall, the water quality calibration at this location shows that the LSPC model represents the Arecibo River system well. The observed seasonal trends for bacteria are represented by the model, and simulation data between monitoring points captures expected variability due to rainfall events and dry periods where point sources may have increased influence. There is a very large range of observed fecal coliform bacteria concentrations. The model captures most of this variability, although a few of the data observed are higher and some are also lower. Although there are always inherent limitations on modeling of fecal coliform bacteria, the water quality calibration in considered successful.

4.2 Tidal Prism Model

The daily fecal coliform bacteria loads representing all source contributions were introduced to a tidal prism model to predict fecal coliform bacteria levels over time within the tidal portion of the Arecibo River system. The concept of the tidal prism model is shown in Figure 4-9. In the Arecibo River system, the ebb (Q_b) and flood (Q_o) of the tide move water between locations exchanging and mixing with other water. Apart from this, the amount of freshwater discharge into the embayment (Q_f) is also one of the dominant influences on the transport of fecal coliform bacteria.

The tidal prism method of estimating in-stream fecal coliform bacteria concentrations uses the volume of the waterbody and adjusts for tidal flushing, freshwater inflow and bacteria load (L_f), and bacteria decay (k) in order to establish the existing conditions in the estuary. The conceptual and mathematical components of the tidal prism model are further described in Appendix B.

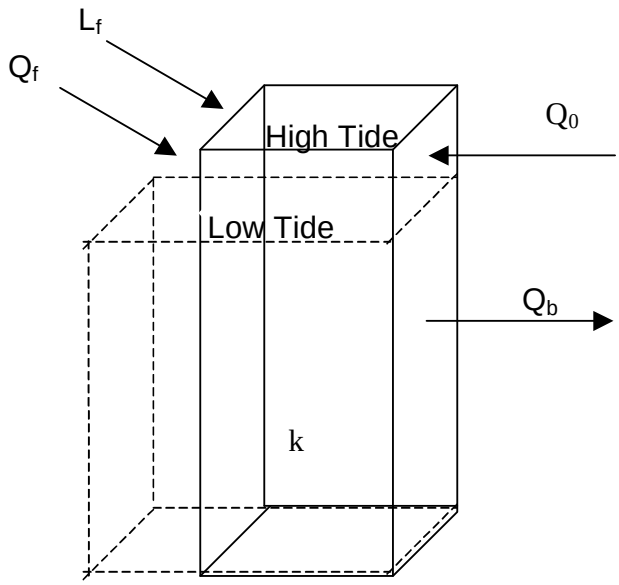

Figure 4-9. Tidal prism model concept.

The tidal portion of the Arecibo River was estimated based on data obtained from the USGS. These data estimated the inland extent of the salt wedge, or water of higher salinity than the watershed runoff. The USGS developed preliminary estimates of saltwater intrusion in coastal rivers, based on local tide variation data (San Juan, PR station [NOAA/NOS # 9755371]). However, it is acknowledged that these shapefiles are static and do not reflect seasonal patterns. Figure 4-10 illustrates the inland extent of high-salinity water based on USGS data. These data were used to estimate the volume of the tidal prism domain, in conjunction with the Rosgen method of stream geometry estimation, as discussed in Section 4.1.2.1.

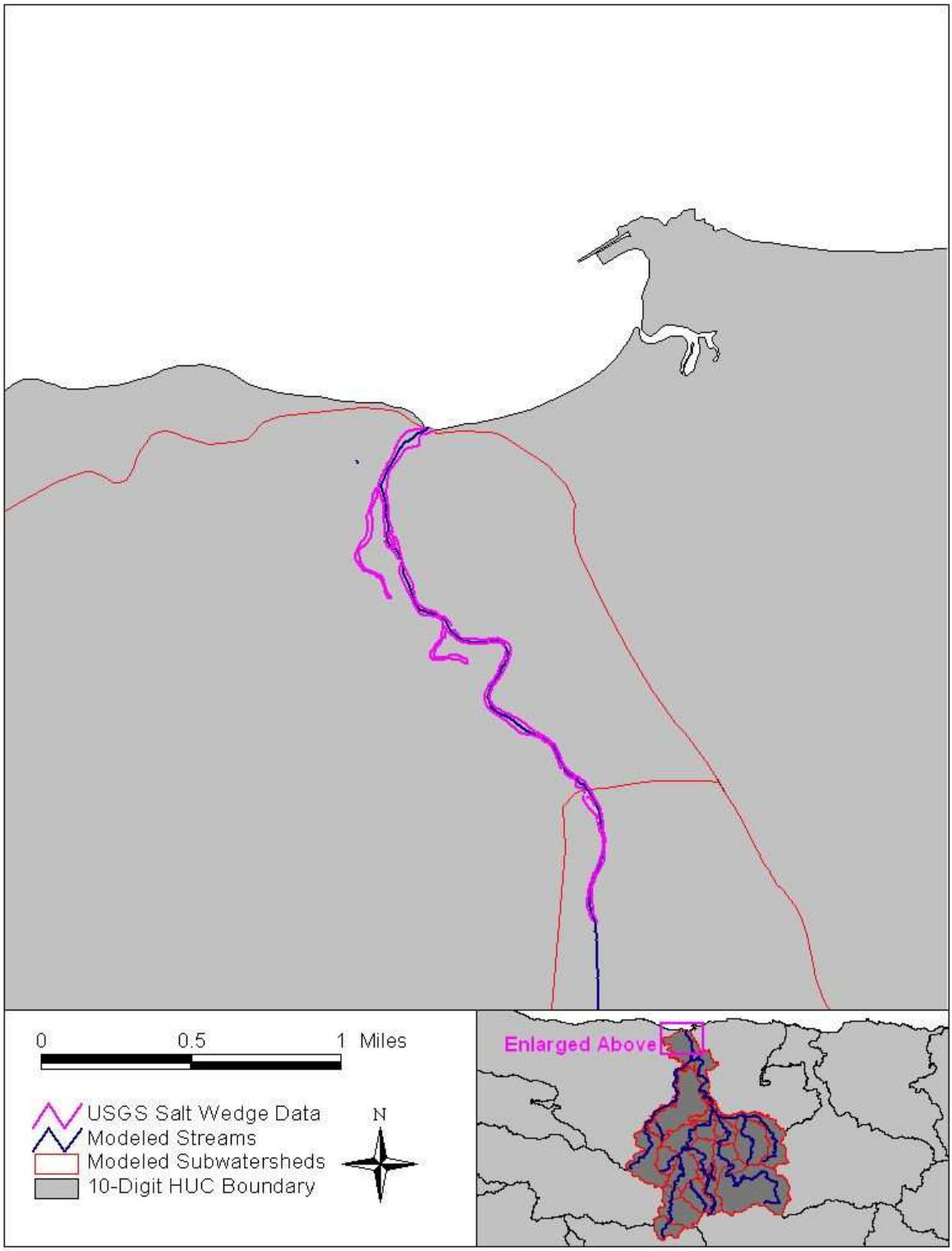

Figure 4-10. USGS data used to estimate the extent of saltwater intrusion and tidal influence in the Arecibo River system.

4.3 Assumptions and Limitations

Some of the major underlying assumptions for this analysis include the following:

- The watersheds delineated were based on topographic data and available stream and channel coverages. Data regarding flow diversions to or from other watersheds were not available and therefore not considered in the analysis.
- Regeneration of fecal coliform bacteria is not a significant source.
- After the model was calibrated and validated using representative flows and concentrations for permitted facilities, the permitted facilities' flows and concentrations were changed to reflect their permit limits. This was the model run that was compared against the TMDL targets. This is a worst-case scenario of permitted facilities loading.
- All of the estimated flows and loads from failing septic systems are assumed to be discharged to the streams. This is a conservative assumption in that it is expected that a portion of these loads will not be able to gain access to the stream reaches.
- The average rate of decay for fecal coliform bacteria (0.7 ^{1}/day) does not vary seasonally or based on meteorological conditions. This is also a conservative assumption, since the die-off rate will probably be higher in the warm waters of this watershed.
- Bacteria concentrations estimated by the tidal prism model assume the volume is fully-mixed, and that bacteria concentrations are horizontally and vertically-averaged.

A number of limitations were inherent in the analytical process because of the approach selected. These limitations are identified below. Although these limitations are present, the approach followed successfully resulted in TMDL identification. If additional data are collected for the Arecibo River watershed, many of these limitations can be addressed.

- The comparison between ambient data and Tidal Prism results was rudimentary in nature, based on the infrequency of data collection and resulting simplistic methodology.
- Population estimates for the watershed were calculated based on census block data circa 2000 for Puerto Rico.

5 TMDL CALCULATION AND ALLOCATIONS

A TMDL for a given pollutant and waterbody is comprised of the sum of individual wasteload allocations (WLAs) for point sources and load allocations (LAs) for both nonpoint sources and natural background levels. In addition, the TMDL must include a margin of safety (MOS), either implicitly or explicitly, to account for the uncertainty in the relationship between pollutant loads and the quality of the receiving waterbody. Conceptually, this definition is represented by the equation:

$$TMDL = \sum WLAs + \sum LAs + MOS$$

The TMDL is the total amount of pollutant that can be assimilated by the receiving waterbody while still achieving the TMDL target. In TMDL development, allowable loadings from pollutant sources that cumulatively amount to no more than the TMDL must be established; this provides the basis to establish water quality-based controls. TMDLs can be expressed on a mass loading basis (e.g., bacteria counts per day) or as a concentration in accordance with 40 CFR 130.2(l).

5.1 Numeric Target for Fecal Coliform Bacteria

The TMDL target for the Arecibo River system is a dual target; a geomean of 200 fecal coliforms per 100mL or less, and 400 fecal coliforms per 100 mL or less, not to be exceeded more than 20% of the time. This target was selected based on the water quality criteria discussed in Section 2.2. Watershed and tidal segment concentrations were not allowed to exceed these limits for the TMDL condition.

Compliance with the TMDL target was evaluated based on the results of the LSPC and tidal prism models. The daily time-series of in-stream fecal coliform bacteria concentrations were reduced until 80% of values were below 400 c/100mL. Then, a moving 5-day geomean of concentrations on consecutive days was calculated. These values were reduced until none of the calculated geomeans were above 200 c/100mL.

The weather data from the time period of 1997-1999 was used in the model to derive the allocations. This time period exhibited both extremes with respect to precipitation, and Figure 5-1 shows annual precipitation at DOS BOCAS, PUERTO RICO (NCDC COOP Station number 663431) for the years 1980 to 2004. The years selected for calibration and those used for the TMDL allocations are also identified. Calibration years and TMDL allocation years were selected to address data availability as well as to encompass critical precipitation conditions, and thus flow conditions in the watershed. The year 1998 experienced hurricane Georges and provides the wetest year for consideration among the calibration/validation period, and the second wettest year among the entire dataset available. In addition, model results for 1998 showed that fecal coliform bacteria loads were highest during this year. The year 1997 was the driest year among the calibration/validation period, and the second driest year among the entire dataset

available. The year 1999 was a relatively average year with respect to precipitation. As discussed in Section 3.2, the critical condition in the Arecibo watershed occurs during both high and low-flow periods. Therefore, an allocation scenario time period that encompassed both conditions within the calibrated and validated modeling timescale was needed for this TMDL. The reason for selecting a relatively short allocation period was to make the allocations more efficient. The allocation process is iterative and performed in a top-down manner. Assessment units upstream were evaluated first. The sources were reduced until the in-stream concentrations met the TMDL targets, then the next downstream AU was evaluated, and so on. The most stringent target was the 5-day geomean of 200 c/100ml. The final step of the allocations was to evaluate the TMDL targets for all AUs for the entire modeling period. All AUs met the required TMDL targets. The critical condition occurs when a large storm follows a very long dry period. During the dry period, the fecal coliform concentratons are elevated because the load from failing septics and point sources are less diluted, and once the storm arrives and generates runoff, the first flush of the bacteria that accumulated on the ground from non-point sources and MS4s is added to the stream.

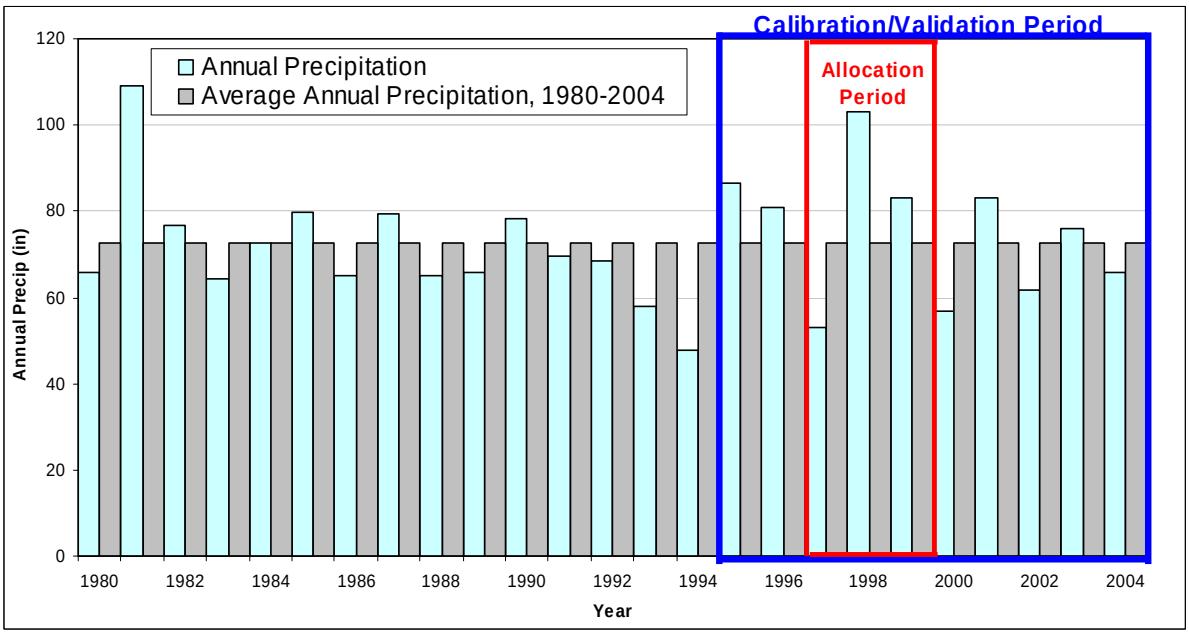

Figure 5-1. Precipitation patterns, 1980-2004 and selected allocation period for the TMDL.

For the watershed as a whole, a 96.4% reduction in bacteria loading met these targets in the Arecibo River system. Therefore, this is the reduction required to meet the TMDL. The allocations for the bacteria sources are discussed below.

5.2 Margin of Safety

There are two methods for incorporating the MOS (USEPA, 1991):

- Implicitly incorporate the MOS using conservative model assumptions to develop allocations.
- Explicitly specify a portion of the total TMDL as the MOS and use the remainder for allocations.

For the Arecibo River system, an implicit MOS was incorporated in several ways. Throughout the TMDL development process, conservative assumptions were made to address the implicit component of the MOS (See list of assumptions in Section 4.2). In addition, an explicit 10% MOS was included in the fecal coliform bacteria loads from LA components of the TMDL. The TMDL targets described in Section 5.1 were selected based on the water quality standards discussed previously.

5.3 Fecal Coliform Bacteria TMDLs

The fecal coliform bacteria TMDLs for the Arecibo watershed were developed using the LSPC model and targets were based on existing water quality criteria, as discussed in Section 2.2. The existing and TMDL bacteria loads for the Arecibo River watershed were generated from the calibrated LSPC model. The target TMDL values for bacteria were calculated by iteratively adjusting loading rate input until simulated in-stream concentrations achieved water quality standards. A maximum geomean (at least 5 samples) in-stream concentration of 200 colonies per 100mL of fecal coliform bacteria, with no more than 20% of the samples exceeding 400 colonies per 100 mL were used as TMDL endpoints, which directly represent the criteria discussed in Section 2.2. Figure 5-2 illustrates compliance with the water quality targets under TMDL conditions.

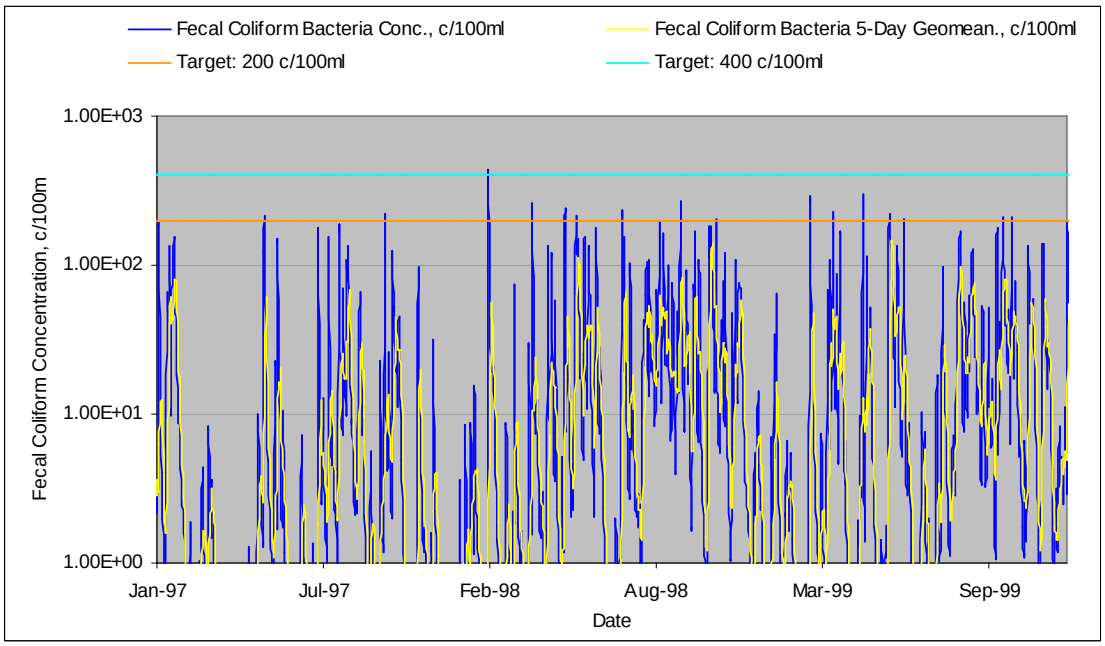

Figure 5-2. Example of daily and 5-day geomean time series under TMDL conditions for Rio Grande de Arecibo's outlet (Reach 2144).

Figure 5-3 identifies the assessment units in the watershed and provides a linkage between modeled subwatersheds and the larger assessment units. Tables 5-1 and 5-2 present baseline and TMDL summaries, respectively, for each of the assessment units.

Five assessment units for which TMDLs were developed within the Rio Grande de Arecibo 10-digit HUC were not included in Puerto Rico's 2006 303(d) list of impaired waterbodies. Assessment units PRNR7B1, PRNL1-7A1, PRNL2-7C1, and PRNL3-7A3 are not listed as impaired in the 2006 303(d) list of impaired waters (Figure 5-3). In addition, a terminal basin assessment unit (named "AR-TB" for this TMDL analysis) was also not included on the list of impaired waters. However, because these assessment units are located in the Rio Grande de Arecibo HUC (2101000204), it was simulated in the LSPC model. Based on modeling results, water quality in these five assessment units does not meet water quality standards, and thus TMDLs were calculated for this unit as well.

The baseline loads presented for septics in Table 5-1 are the sum of the estimated septics load from Table 2-4 for all of the subwatersheds that compose the particular assessment unit. The baseline loads presented for NPDES permits in Table 5-1 are the sum of the permitted loads from Table 2-2 for all facilities in the subwatersheds that compose the particular assessment unit. The baseline loads presented for MS4 permits in Table 5-1 are the sum of the estimated loads from all MS4 areas in the subwatersheds that compose the particular assessment unit (See Table 5-3).

The TMDL loads presented for septics in Table 5-2 are based on a complete elimination of failing septics load to the streams (i.e. by fixing the failing septic systems so that they perform adequately). The TMDL loads presented for NPDES permits in Table 5-2 are the sum of the WLA loads from Table 5-4 for all facilities in the subwatersheds that compose the particular assessment unit. The TMDL loads presented for MS4 permits in Table 5-2 are the sum of the WLA loads from all MS4 areas in the subwatersheds that compose the particular assessment unit, see Table 5-3.

Figure 5-3. Allocation units and modeled subwatersheds in the Rio Grande de Arecibo watershed.

Table 5-1. Baseline summary by assessment unit

	Land Use	AR-TB	PRNL1-7A1	PRNL2-7C1	PRNL3-7A3	PRNR7A1	PRNR7A2	PRNR7A3	PRNR7B1	PRNR7B2	PRNR7C1	PRNR7C2	PRNR7C3
		(#/yr)	(#/yr)	(#/yr)	(#/yr)	(#/yr)	(#/yr)	(#/yr)	(#/yr)	(#/yr)	(#/yr)	(#/yr)	(#/yr)
Nonpoint Sources	Agriculture	1.87E+13	1.26E+14	4.38E+14	3.59E+14	1.94E+13	9.67E+14	2.55E+15	5.76E+12	9.36E+14	3.13E+15	1.53E+15	7.99E+14
	Barren	2.17E+09	2.80E+09	8.43E+08	0.00E+00	1.59E+09	3.50E+09	1.71E+09	8.96E+07	8.10E+07	3.88E+09	5.67E+08	4.03E+08
	Forest	4.81E+13	4.55E+13	3.33E+13	1.79E+13	1.51E+13	8.54E+13	7.46E+13	8.16E+12	2.53E+13	1.16E+14	5.50E+13	4.65E+13
	Pasture	1.68E+15	2.64E+15	2.75E+15	1.35E+14	4.27E+15	7.62E+15	2.01E+15	4.41E+14	1.58E+15	5.57E+15	3.08E+15	2.37E+15
	Urban High Density	0.00E+00	9.01E+09	7.74E+09	0.00E+00	1.74E+11	2.95E+10	1.03E+10	5.77E+09	0.00E+00	3.88E+09	3.88E+09	3.87E+09
	Urban Low Density	3.25E+11	8.66E+11	5.71E+11	1.47E+11	4.12E+11	4.16E+12	3.68E+12	1.05E+11	1.16E+12	4.04E+12	1.08E+12	9.30E+11
	Water	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Wetland	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E+10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Septics	4.76E+13	3.43E+13	2.48E+13	1.40E+13	1.54E+14	2.26E+14	1.36E+14	1.10E+13	4.11E+13	1.26E+14	3.96E+13	2.99E+13
Permitted Point Sources	Urban MS4	7.71E+10	0.00E+00	0.00E+00	0.00E+00	4.03E+12	0.00E+00	0.00E+00	8.21E+10	1.54E+11	0.00E+00	0.00E+00	1.21E+09
	NPDES	1.32E+11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E+12	1.64E+13	5.66E+12	3.32E+11	6.63E+12	2.77E+11	0.00E+00
Total existing loads		1.79E+15	2.85E+15	3.25E+15	5.26E+14	4.46E+15	8.91E+15	4.79E+15	4.72E+14	2.59E+15	8.95E+15	4.71E+15	3.25E+15

Table 5-2. TMDL summary by assessment unit.

	Landuse	AR-TB	PRNL1-7A1	PRNL2-7C1	PRNL3-7A3	PRNR7A1	PRNR7A2	PRNR7A3	PRNR7B1	PRNR7B2	PRNR7C1	PRNR7C2	PRNR7C3
		(#/yr)	(#/yr)	(#/yr)	(#/yr)	(#/yr)	(#/yr)	(#/yr)	(#/yr)	(#/yr)	(#/yr)	(#/yr)	(#/yr)
LA	Agriculture	9.91E+11	5.56E+12	1.58E+13	2.55E+13	5.23E+11	1.74E+13	6.89E+13	2.54E+11	1.69E+13	5.63E+13	4.14E+13	1.44E+13
	Barren	2.17E+09	2.80E+09	8.43E+08	0.00E+00	1.59E+09	3.50E+09	1.71E+09	8.96E+07	8.10E+07	3.88E+09	5.67E+08	4.03E+08
	Forest	4.81E+13	4.55E+13	3.33E+13	1.79E+13	1.51E+13	8.54E+13	7.46E+13	8.16E+12	2.53E+13	1.16E+14	5.50E+13	4.65E+13
	Pasture	8.89E+13	1.16E+14	9.90E+13	9.58E+12	1.15E+14	1.37E+14	5.42E+13	1.94E+13	2.85E+13	1.00E+14	8.31E+13	4.27E+13
	Urban High Density	0.00E+00	3.97E+08	2.79E+08	0.00E+00	4.71E+09	5.31E+08	2.79E+08	2.54E+08	0.00E+00	6.98E+07	1.05E+08	6.97E+07
	Urban Low Density	1.72E+10	3.81E+10	2.06E+10	1.04E+10	1.11E+10	7.49E+10	9.95E+10	4.63E+09	2.08E+10	7.26E+10	2.93E+10	1.67E+10
	Water	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Wetland	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E+10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Septics[1]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
WLA	Urban MS4	4.09E+09	0.00E+00	0.00E+00	0.00E+00	1.09E+11	0.00E+00	0.00E+00	3.61E+09	2.77E+09	0.00E+00	0.00E+00	2.19E+07
	NPDES[2]	1.32E+10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E+12	1.64E+12	5.66E+11	3.32E+10	3.15E+12	2.77E+10	0.00E+00
MOS	Margin of Safety[3]	1.53E+13	1.86E+13	1.65E+13	5.88E+12	1.46E+13	2.70E+13	2.22E+13	3.15E+12	7.85E+12	3.06E+13	1.99E+13	1.15E+13
TMDL	Total Maximum Daily Load	1.53E+14	1.86E+14	1.65E+14	5.88E+13	1.46E+14	2.70E+14	2.22E+14	3.15E+13	7.85E+13	3.06E+14	1.99E+14	1.15E+14
Percent Reductions		91.44%	93.47%	94.93%	88.81%	96.73%	96.97%	95.37%	93.31%	96.96%	96.57%	95.76%	96.45%

[1] *Based on a 100% reduction in bacteria loading from failing septic systems.*
[2] *Based on a reduction in facility permit limits to 200 fecal coliforms per 100 mL, or ambient water quality standards.*
[3] *A 10% explicit Margin of Safety (MOS) was applied to the load capacity*
[4]*WLAs for individual sources are shown in Tables 5-3 and 5-4.*

5.4 Load Allocations

The load allocation (LA) is the portion in the TMDL that is assigned to nonpoint sources. Tables 5-1 and 5-2 show the total loads by land use type and assessment unit. These loads are inclusive of MS4 loads. For this TMDL, the MS4 bacteria loads were subtracted from the nonpoint source load allocation and reallocated as WLAs. The remaining LAs are presented in Tables 5-1 and 5-2. See the next section for additional information regarding MS4 loads.

Based on the analysis performed, the primary nonpoint source contributions to the Arecibo River system are from the land surface. Source-based reductions were arrived at through an iterative process of examining bacteria reduction possibilities by varying bacteria loads from each source to the system and ensuring that the TMDL target was met. Specifically, nonpoint source loads were reduced by Assessment Unit until fecal coliform bacteria concentrations in that segment met the TMDL targets described in Section 5.3.

Load allocations were performed using a “top-down” reduction methodology. This methodology entails applying reductions to headwaters first, until waters in these subwatersheds meet the TMDL target. This method has the effect of also reducing in-stream concentrations in downstream subwatersheds by discharging waters of higher quality to subsequent reaches in the simulated network. These waters then serve to dilute fecal coliform bacteria loads that enter downstream.

However, this methodology sometimes requires large reductions in headwater subbasins. This occurs when significant sources of a pollutant exist in that watershed and diluting flows from upstream reaches are not available. Larger reductions are required in these watersheds to meet the TMDL target. Large reductions in excess of 90% are sometimes required in areas where excessive in-stream pollutant concentrations have been observed.

For example, Figures 4-7 and 4-8 show a water quality calibration where in-stream measurements in excess of 20,000 cfu/100mL have been observed. The instantaneous water quality standard for fecal coliform bacteria is 200 cfu/100mL, so a simplistic reduction from 20,000 CFUs to 200 CFUs would require a 99% reduction. This is presented to provide the magnitude of the impairment and justify the reductions shown in Tables 5-1 and 5-2.

The load allocations are separated by land use and separated from septic loads, which are also considered a component of the LA.

5.5 Wasteload Allocations

Federal regulations (40 CFR 130.7) require TMDLs to include individual WLAs for each point source. In addition, USEPA’s stormwater permitting regulations require municipalities to obtain permit coverage for all stormwater discharges from urban

municipal separate storm sewer systems (MS4). A November 22, 2002 USEPA Memorandum from Robert Wayland and James Hanlon, Water Division Directors (http://www.epa.gov/boston/npdes/stormwater/) clarified existing regulatory requirements for MS4s connected with TMDLs. The key points are:

- NPDES-regulated MS4 discharges must be included in the wasteload allocation component of the TMDL and may not be addressed by the load allocation component of TMDL.
- The stormwater allotment can be a gross allotment and does not need to be apportioned to specific outfalls.
- Industrial storm water permits need to reflect technology-based and water quality based requirements.

Based on this memorandum, MS4s within the Arecibo watershed were treated as point sources for TMDL and NPDES permitting purposes, and the bacteria loading generated within the boundary of an MS4 area was assigned a WLA in addition to the WLA for the point source dischargers. There are also thirteen point source facilities with thirteen outfalls, and four MS4 communities within the Arecibo watershed, all requiring WLAs. The components of the WLA are summarized below.

WLA: MS4 Municipalities

In the Rio Grande de Arecibo watershed, stormwater bacteria loads are covered under the Phase II NPDES Stormwater Program and were considered wasteloads at this time. Runoff from residential and urbanized areas during storm events can be a significant fecal coliform bacteria source, delivering bacteria to the waterbody. USEPA's stormwater permitting regulations require public entities to obtain NPDES permit coverage for stormwater discharges from MS4s in specified urbanized areas. Table 5-3 presents a summary of the MS4 components. Note that although there are 4 census urbanized areas covered under MS4, they overlap with both assessment units and counties; hence there are 8 total MS4 components.

Table 5-3. Fecal coliform bacteria loads for the MS4 component of the WLA

Urbanized Area	County	Urban Code	Assessment Unit	Baseline (#/day FC Bacteria)	WLA (#/day FC Bacteria)	Percent Reduction
Aguadilla--Isabela--San Sebastian, PR	Utuado	631	PRNR7B1	7.31E+06	3.22E+05	95.6%
Aguadilla--Isabela--San Sebastian, PR	Utuado	631	PRNR7B2	4.21E+08	7.59E+06	98.2%
Arecibo, PR	Arecibo	3034	PRNR7A1	7.79E+09	2.10E+08	97.3%
Arecibo, PR	Arecibo	3034	PRNR7B1	5.85E+07	2.57E+06	95.6%
Florida--Barceloneta--Bajadero, PR	Arecibo	30115	AR-TB	2.11E+08	1.12E+07	94.7%
Florida--Barceloneta--Bajadero, PR	Arecibo	30115	PRNR7A1	3.25E+09	8.77E+07	97.3%
Florida--Barceloneta--Bajadero, PR	Arecibo	30115	PRNR7B1	1.59E+08	7.00E+06	95.6%
San Juan, PR	Ciales	79093	PRNR7C3	3.33E+06	5.99E+04	98.2%
			Totals:	**1.19E+10**	**3.27E+08**	

WLA: Permitted Facilities

For the permitted facilities, the fecal coliform bacteria WLAs were calculated using a concentration of 200 c/100ml, and the facilities' current permitted flow. Table 5-4 presents the baseline load, WLAs, and the percent reductions required to meet the TMDL targets. The baseline load is calculated using the facilities' current permitted flow and concentration. The percent reduction is the reduction from baseline to TMDL conditions.

Table 5-4. Individual NPDES permitted facility WLAs

NPDES Permit	Facility Name	Lat (dd)	Long (dd)	Assessment Unit	Permitted (#/day FC Bacteria)	WLA (#/day FC Bacteria)	WLA (colonies/100mL)	Percent Reduction
PR0020214	PRASA ADJUNTAS	18.16694	-66.72750	PRNR7A3	4.19E+10	4.19E+09	200	90%
PR0020915	PRASA_- UTUADO	18.26750	-66.70972	PRNR7A2	1.09E+10	5.45E+09	200	50%
PR0022691	PRASA WTP ADJUNTAS	18.15083	-66.71472	PRNR7A3	3.03E+09	3.03E+08	200	90%
PR0022713	PRASA WTP TANAMA	18.21639	-66.76000	PRNR7B2	9.10E+08	9.10E+07	200	90%
PR0023132	SECOND UNIT MAMEYES SCHOOL	18.26028	-66.57861	PRNR7C2	7.58E+08	7.58E+07	200	90%
PR0024121	PRASA WTP JAYUYA FILTER PLANT	18.22639	-66.58417	PRNR7C1	1.06E+10	1.06E+09	200	90%
PR0024155	PRASA WTP UTUADO	18.24556	-66.67000	PRNR7A2	7.95E+09	7.95E+08	200	90%
PR0024210	PRASA WTP ARECIBO	18.41139	-66.71333	PRNR7B1	1.19E+10	1.19E+09	200	90%
PR0024821	CAMPAMENTO CROZIER JOBOS WARD	18.33056	-66.70278	AR-TB	3.62E+08	3.62E+07	200	90%
PR0025950	PRASA - ESPERANZA FILTER PLANT	18.38056	-66.73583	PRNR7B1	3.63E+09	3.63E+08	200	90%
PR0026255	PRASA - SABANA GRANDE WARD WTP	18.28167	-66.67111	PRNR7A2	2.73E+08	1.37E+08	200	50%
PR0026271	PRASA - RONCADOR WTP	18.24611	-66.75917	PRNR7A2	1.21E+09	1.21E+09	200	0%
PR0026531	PRASA - JAYUYA (NEW) WWTP	18.20278	-66.62611	PRNR7C1	7.57E+09	7.57E+09	200	0%
				Totals:	**1.01E+11**	**2.25E+10**		

6 REASONABLE ASSURANCE AND TMDL IMPLEMENTATION

6.1 Reasonable Assurance

There is reasonable assurance that the goals of these TMDLs can be met with proper watershed planning, implementation of pollution reduction best management practices (BMPs), and strong political and financial mechanisms. Reasonable assurance that the TMDLs established will require a comprehensive, adaptive approach that addresses:

- non-point source pollution including failing septic systems,
- existing and future sources,
- regulatory and voluntary approaches.

TMDLs represent an attempt to quantify the pollutant load that may be present in a waterbody and still ensure attainment and maintenance of water quality standards. These TMDLs identify the necessary overall load reductions for fecal coliform bacteria currently causing use impairments and distributes those reduction goals to the appropriate sources. Reaching the reduction goals established by these TMDLs will occur through non-point source controls to achieve LAs and the National Pollutant Discharge Elimination System (NPDES) and permits to achieve WLAs.

The non-point source controls can be implemented through a number of existing programs such as Section 319 of the CWA, commonly referred to as the Non-point Source Program. This program can help with the installation of BMPs that prevent or reduce non-point source pollution to a level compatible with water quality goals.

According to 40 CFR § 122.44(d)(1)(vii)(B), the effluent limitations for an NPDES permit must be consistent with the assumptions and requirements of any available WLA for the discharge prepared by the state and approved by EPA. Furthermore, EPA has authority to object to issuance of an NPDES permit that is inconsistent with WLAs established for that point source. This applies to traditional point sources as well as more diffuse sources such as permitted MS4 systems.

6.2 Implementation

These TMDLs are based on attaining an in-stream geomean fecal coliform bacteria concentration of 200 colonies/100 mL (minimum 5 samples), and a dual target of no more than 20% of samples exceeding 400 colonies per 100 mL (see Section 2.2). The TMDLs in this report meet these standards, and have been calculated at each assessment unit pour point, and require between 90.2% and 97.4% reductions in fecal coliform bacteria loading to meet the standard. The TMDL implementation plan focuses on

increased reductions from existing sources of fecal coliform bacteria. Management of future sources, such as new development, falls under the category of watershed planning.

Effective watershed planning is a critical component for meeting water quality standards in the future. It is recognized that the implementation of watershed management strategies has already occurred to some extent in the watershed. However, in order to meet the targeted load reductions, additional implementation practices must occur in the future.

There are a number of critical questions that should be addressed during the TMDL implementation phase. These are presented as a basis for evaluating an implementation strategy and to ensure that adequate resources are provided to meet the fecal coliform bacteria reduction goals specified in Section 5. Some of the key programmatic questions and answers are listed below, these include:

How much fecal coliform bacteria must be reduced?
Section 5 identifies the necessary fecal coliform bacteria load reductions for the entire watershed, listed by assessment unit and source as calculated as part of this TMDL analysis. In order to meet the current water quality standards, assessment units must reduce fecal coliform bacteria load by a range of between 90.2% and 97.4%.

Do programs and organizations exist to address the reductions from nonpoint sources?
An effective management plan must address the capability of local, territorial and federal programs to implement the management strategies recommended in this implementation plan. Identifying and assigning actions to appropriate organizations is part of implementation. Some of those organizations may include EPA, Puerto Rico EQB, Puerto Rico Natural Resource Conservation Service, University of Puerto Rico Agricultural Extension Offices, local watershed associations, environmental groups, and local and county governments.

What monitoring information would help refine the necessary reductions?
This TMDL presents sources of fecal coliform bacteria loading based on in-stream monitoring, modeling results, and land use data. Further data collection regarding specific sources can be used to refine the management plan. For example, septic failure rates were assumed to be uniform throughout the watershed based on a lack of data or log of failures. Further data collection to refine the failure rate in the watershed could be performed to verify the assumed failure rate and assist in focusing BMP implementation more effectively. See Section 4.3 for assumptions and limitations with respect to these TMDLs.

How should load reductions be prioritized?
While there are variations in the percent reductions necessary to achieve TMDL compliance by assessment unit, pollutant load is fairly evenly distributed throughout the watershed. Thus, the following management recommendations are for the watershed as a whole.

6.2.1 Management Plan: Agricultural Areas

Agriculture includes farming of plant crops and animal husbandry. Because large areas of land are devoted to these activities, they have a significant impact on water quality and water resources. Agricultural impacts on water resources generally involve several types of pollutants: 1) Nutrients, 2) Pesticides, 3) Bacteria and Viruses, 4) Sediments, and 5) Erosion. For the purposes of this management plan, reductions of bacteria will be the primary focus of management recommendations. However, since many of the same management practices will also contribute to load reductions in other pollutants, the implementation of proposed fecal coliform bacteria reducing management measures would contribute to improved overall water quality within the watershed. To improve water quality, farmers can apply a variety of measures to minimize runoff of potentially harmful materials (e.g., animal wastes) from agricultural lands into adjacent streams and ultimately, surface waters in the watershed.

6.2.1.1 Implementation: Agricultural Areas

In order to achieve realistic reductions in fecal coliform bacteria load and concentrations in the watershed, the following framework is provided:

1. Using GIS land use data and animal census data, locate and identify the most significant farming activities and source areas with the highest potential FC load.

2. Develop a suite of educational, technical and financial resources to address the issues deemed most significant, including:

- Develop a schedule for implementation of pilot scale and demonstration projects and monitor the results.
- Reassess implementation schedule as a result of monitoring results and revise program accordingly.
- Implement actions on lower priority land uses and activities as higher priority areas are completed, assessed and begun to come into compliance.

It is recognized that current programs have been implemented in recent years to address the goal of reducing fecal coliform bacteria loading to receiving waters. However, based on in-stream monitoring and modeling results, additional BMP implementation must occur to meet the load reductions specified in this TMDL.

6.2.1.2 Recommended BMPs: Agricultural Areas

Education should occur on a variety of levels and target decision makers (elected officials, heads of agencies, and political appointees), farm owners and farm workers, and the general public. The importance of protecting natural resources and the impact of nonpoint source pollution need to be communicated effectively, focusing on linkages between healthy natural resources, clean drinking water and a strong economy.

Public education and outreach activities and materials can take on a variety of forms, depending on the target audience;

- Decision makers need general information on the impacts of nonpoint source pollution, how nonpoint source pollution affects the environment, ways of controlling nonpoint source pollution, and how the adverse impacts of nonpoint source pollution affect the economy and aesthetics of the region.
- Farmers need detailed information on how to select and implement proper nonstructural and structural BMPs, operate and maintain structural BMPs, recognize the limitations of the land and obtain the maximum sustainable yield within those limitations, manage land properly, and develop and implement control plans.
- The general public needs to understand the linkages between their actions, nonpoint source pollution, and degradation of the natural environment.
- Education programs should be tailored to the specific needs of the community, the needs of the farmers, and the education level of the target audiences.

An effective strategy for public education and outreach regarding agricultural nonpoint source pollution should include:

- Development of a commission or similar mechanism for coordinating educational policy for the region;
- Community education programs;
- Field demonstrations and follow-up site visits;
- School and community workshops;
- Outreach and extension programs, including courses for farm workers;
- Use of media (TV, radio, videos, etc.);
- Required school environmental education curriculum;
- Development of outreach materials such as fact sheets, guidance documents, and courses for decision makers, farmers, and the general public;
- Education of political and policy leaders in the Watershed;
- Appointment of one responsible or lead coordinating agency; and
- Economic incentives for implementing education programs.

Achieving the successful implementation of BMPs by farmers hinges on demonstrating to them that adopting such practices can save money, resources, and time.
Education and outreach programs should focus on working with farmers and others to implement the following BMPs, which emphasize reducing fecal coliform bacteria loading:

Keep Livestock out of Water - By cutting off the access of livestock to streams, ponds, and rivers with fencing, animal contact with waterborne bacteria is reduced and animal discharge of bacteria is minimized.

Provide alternative Watering Holes - In order to deter livestock grazing, farmers must provide an alternative source of drinking water for their livestock.

Disposal of Dead Livestock - Dead livestock should be disposed of properly to reduce the potential for ground and surface water contamination from pathogens. They should be removed from streams or fields and isolated until disposal is possible. Proper disposal methods include composting and incineration. Incineration facilities require more detailed planning and need to be developed under the consultation of local, terrestrial and national authorities to ensure proper construction, operation, and maintenance.

Divert runoff water - Diverting clean water around a feedlot prevents the excessive erosion of manure solids from the lot and increases the effectiveness of settling basins or other solid-liquid separation equipment. Prevent rainwater from entering the feedlot by using gutters and downspouts to handle water coming from building rooftops.

Manure Management - A complete manure management system involves collection, storage (temporary or long-term), and ultimate disposal or use. A manure management plan should establish fertilizer plans to use manure effectively.

Store livestock wastes properly - Waste storage structures should not be located near surface waters. Also, special precautions should be taken when storing waste in earthen structures to prevent wastes from seeping through the bottom of the basin to adjacent surface waters or groundwater. Manure storage areas should be covered whenever possible.

Composting of Manure - This practice is an aerobic process of controlled biodegradation of animal wastes that reduces pathogens and stabilizes nutrients. It is a highly cost effective technique of managing wastes, producing a valuable commodity, and reducing potential for water resource contamination. Composting requires active management in order to produce a useful soil amendment.

Filter Strips - These are vegetated zones around a confined animal facility or active cropland that trap sediments, organic wastes and other pollutants in stormwater runoff. They must receive regular maintenance in order to function effectively. Constructed wetlands in low-lying areas can also serve a similar purpose.

Heavy Use Area Protections - This practice involves construction of hard surfaces in heavily used areas. Materials for construction can be concrete, asphalt, compacted gravel or compacted earth, depending on the waste management objectives. Hardening areas of heavy use prevents or slows their physical degradation and facilitates the collection and use of animal wastes, the latter being vital to protection of water resources.

Manure Stacking Areas - These areas are temporary locations for storing animal wastes in a field prior to application. Their purpose is to supplement constructed storage facility volumes or to await favorable conditions for field application.

Manure Storage Facilities - This BMP involves using permanent structures for storage of animal wastes on a temporary basis. They also capture polluted runoff and are

therefore a useful means of preventing or minimizing transport of contaminants and sediments to surface waters.

Manure and Waste Utilization Plans - Plans which formulate an approach to recycling animal wastes to benefit crop production while ensuring environmental quality. They can be used in conjunction with nutrient management plans to minimize the amount of commercial fertilizer applied to cropland.

Other BMPs that may be useful in managing animal wastes include:

- Use of waste storage ponds and waste treatment lagoons;
- Reuse of runoff water and/or manure for agricultural crops or plantings; and
- Contracting with commercial rendering or disposal services.

"*Reducing Wastewater and Runoff from Confined Animal Facility*" involves limiting surface water runoff and discharge from confined animal facilities to adjacent streams or the river. This can be done by storing both the facility wastewater and the storm water runoff and managing the stored runoff and pollutants through an appropriate waste utilization system. Some BMPs for reducing animal facility runoff include the following:

- Use of dikes, diversions, and grassed waterways;
- Protection of heavy use areas;
- Use of lined waterways or outlets;
- Managing roof runoff and runoff from paved areas;
- Terracing slopes;
- Using waste storage ponds or waste storage structures such as waste treatment lagoons;
- Reuse of runoff water and/or manure for agricultural crops or plantings;
- Waste utilization and recycling;
- Providing a composting facility;
- Using commercial rendering or disposal services;
- Incineration of wastes;
- Use of approved burial sites;
- Use of structures to trap sediments and associated pollutants (sediment basin, water and sediment control basin);
- Use of vegetated filter strips and constructed wetlands to trap sediments and associated pollutants.

"*Grazing Management*" protects water resources by managing livestock range, pasture, and other grazing lands to reduce erosion, sedimentation and transport of pollutants in the following ways:

- Use of deferred grazing and planned grazing to allow water resources and land to recover from intensive usage that may damage water quality;
- Proper grazing use;

- Proper woodland grazing;
- Pasture and hayland management;
- Use of pipelines, wells, ponds, drinking water troughs or tanks to water livestock instead of natural streams or ponds;
- Spring development

"Irrigation Water Management" reduces nonpoint pollution of surface and ground waters caused by irrigation. Such measures include:

- Irrigation water management and scheduling;
- Use of irrigation water-measuring devices;
- Soil and crop water use data;
- Irrigation system, drip or trickle;
- Irrigation system, sprinkler;
- Irrigation system, surface and subsurface;
- Irrigation field ditch;
- Irrigation land leveling;
- Irrigation system, tailwater recovery;
- Filter strip;
- Surface drainage field ditch;
- Subsurface drain;
- Water table control;
- Controlled drainage; and
- Backflow prevention practices.

"Financial Incentives" Financial incentives should be a component of the agricultural management plan. Grants and government programs could be directed to farmers for implementing BMPs. For example, government agencies could implement manure-recycling programs by purchasing manure from livestock farmers, and storing the manure properly until it can be donated as fertilizer. Other cost sharing measures should be offered to provide incentive for BMP implementation.

6.2.2 Management Plan: Urban Areas

Land development and construction activities typically involve clearing and removal of vegetation, grading of the land surface, excavation of earth, removal and importation of soil, construction of impervious structures using man-made building materials, installation of utilities, construction of septic systems or sewer lines, road building, and landscaping. Such activities also affect water quality, through removal of protective vegetation, stormwater runoff from cleared areas and lawns, spillage of paint or other compounds, dust from construction materials, and fertilizers and pesticides used in landscaping.

Existing urban land uses contribute to nonpoint source pollutant loading from a variety of sources and activities, including: increased flow and wash off of accumulated pollutants

from impervious surfaces, accelerated upland and channel erosion, pet waste, sanitary sewer overflows and combined sewer overflows, and failing septic systems.

6.2.2.1 Implementation: Urban Areas

In order to achieve realistic reductions in fecal coliform bacteria load and concentration in the watershed, the following framework is provided:

1. A program should be developed to assess the discrete impacts of permitted (MS4s) and non-permitted loads from urban areas.
2. Using GIS land use data, locate and identify the most significant land use source areas with the highest potential load.
3. Develop a suite of educational, technical and financial resources to address the issues deemed most significant, including:

- Develop a schedule for implementation of ordinances, pilot scale and demonstration projects and monitor the results.
- Reassess implementation schedule as a result of monitoring results and revise program accordingly.
- Implement actions on lower priority sources as higher priorities are completed, assessed and coming into compliance.

6.2.2.2 Recommended BMPs: Urban Areas

Best Management Practices for urban land uses are designed to reduce the impact of these sources on surface waters. Upon implementation of BMPs, their effectiveness should be evaluated in relation to prescribed wasteload allocations (MS4s), and future permit conditions will be established with a goal of water quality standard compliance. Typical measures for construction sites include sediment traps and basins, sediment fences, wind erosion controls, and sediment, chemical, and nutrient control. Although these BMPs target sediment, bacteria are also targeted inherently as bacteria sources can be associated with sediment. Since urbanization is ongoing, it is useful to consider BMPs that address existing urbanized areas as well as future growth. Therefore, BMPs for urban land uses should be considered in three phases of development: Pre-Construction (or Planning), Construction, and Post-Construction.

Education focused on urban residents, businesses, and decision makers is essential to the success of best management practices. As with agricultural BMPs, public education and outreach activities can take on a variety of forms, depending on the target audience.

- Decision makers and residents need general information on the impacts of nonpoint source pollution, how nonpoint source pollution affects the environment, ways of controlling nonpoint source pollution, and how the adverse impacts of nonpoint source pollution affect the economy and aesthetics of the region.
- Businesses and commercial users need detailed and focused information on how to select and implement proper nonstructural and structural BMPs, operate and

maintain structural BMPs, manage land properly, and develop and implement erosion and sediment control plans.
- Education programs should be tailored to the specific needs of the community and the education level of the target audiences.

An effective strategy for public education and outreach regarding urban nonpoint source pollution should include:

- Development of a commission or similar mechanism for coordinating educational policy for the region;
- Community education programs;
- Field demonstrations and follow-up site visits;
- School and community workshops;
- Outreach and extension programs, including courses for commercial, industrial and residential users;
- Use of media (TV, radio, videos, etc.);
- Required school environmental education curriculum;
- Development of outreach materials such as fact sheets, guidance documents, and courses for decision makers, residents, businesses and the general public;
- Education of political and policy leaders in the Watershed;
- Appointment of one responsible or lead coordinating agency; and
- Economic incentives for implementing education programs.

Implementation of BMPs by citizens hinges on demonstrating to them that adopting such practices can save money, resources, and time. Education and outreach programs can focus on working with citizens and others to implement the following BMPs.

<u>Pre-Construction (Planning) Phase:</u>

"Develop a spill response plan" that clearly outlines procedures to be followed in the event of an accidental spill on-site during construction (e.g sewer line damage).

"Plan access roads to reduce stream crossings" to minimize the amount of sediment-associated pollutants that wash into tributaries.

<u>Construction Phase</u>:

"Locate on-site pollutant sources away from drainage courses" to prevent pollutants from being washed into drainage courses and streams during rainfall events.

"Install sedimentation basins" to collect stormwater runoff from construction activities.

"Install anchored mulch" (especially on slopes greater than 5% and concentrated flow areas such as diversions and waterway channels). Examples of mulch include mats, chemical mulches and organic mulches (hay, wood chips, shredded corn stalks).

"Sediment barriers (hay bales, silt fencing)" that are installed along the slope contour (at the same elevation) with ends flared uphill successfully capture runoff.

"Minimize soil disturbance" Construction projects in areas with steep slopes and close proximity to surface waters need to minimize the amount of road access and exposed soil.

"Construction entrance sites" with construction entrance pads.

"Vehicle washing" keeps sediment and soil on-site.

Post-Construction Phase:

"Vegetated filter strips" are areas of land with natural or planted vegetation designed to receive overland sheet runoff from upgradient development. The primary function of the strips is to remove pollutants from the flow before it reaches surface water.

"Grassed swales" are shallow, vegetated, man-made ditches designed so that the bottom elevation is above the ground water table to allow runoff to infiltrate into the ground.

"Grassed waterways" (wide, shallow channels lined with sod) are often used as outlets for runoff from terraces.

"Extended detention ponds" are structures that are designed to temporarily hold storm water for up to 24 hours, a period long enough to allow for settling of particulates. These ponds are normally dry between storm events, but may have a shallow marsh in the detention area.

"Wet ponds" are designed to have a permanent pool of water with additional capacity to detain storm water. The pool prevents the re-suspension of sediments in the pond from previous storm events. Wet ponds can achieve a high degree of pollutant removal and peak storm water discharge reduction.

"Constructed wetlands" are engineered systems designed to replicate some of the beneficial functions of natural wetlands to treat and contain storm water runoff pollutants and reduce peak flow. Constructed wetlands are complex systems and require careful planning if they are to function correctly.

"Infiltration practices" including ponds and trenches, are designed to allow storm water runoff to collect and permeate into the ground. By infiltrating the runoff, pollutants will be retained in the soil. However, a major drawback to infiltration practices is their high maintenance requirements.

6.2.3 Management Plan: Septic Systems

Fecal coliform loads from septic systems represent approximately 4.93% of the total load in the Arecibo system. Approximately 67% and 29% of the population is serviced by on-site septic systems and latrine systems, respectively. These systems effectively remove fecal coliform bacteria when properly installed and maintained as fecal coliform bacteria naturally die off while the effluent percolates through the soil to the groundwater. These systems fail when there is a discharge of waste to the soil surface where it is available for washoff into surface waters.

Failing septic systems can deliver high bacteria loads to surface waters, depending on the proximity of the discharge to a waterbody and the timing of rainfall events. Septic system failures typically occur in older systems that are not adequately maintained with periodic sewage pump-outs.

6.2.3.1 Implementation: Septic Systems

Strategies for septic system management include:

- surveying and testing programs to identify failing septic systems;
- education on proper maintenance of septic systems;
- encouragement to make repairs; and
- studies to evaluate alternatives.

Septic failures are often not evident, and identification of failing septic systems should represent a significant portion of the implementation plan. As failed systems are identified, repairs or alternative systems can be encouraged and incorporated.

Public education regarding proper use and maintenance of septic systems is also important in the implementation process. A significant number of septic failures may be prevented if proper maintenance is conducted. Therefore, a public awareness component should be employed.

Septic alternative studies may provide sufficient information to assist in evaluating alternatives to septic systems. Suitability studies for selecting appropriate septic systems (latrines vs. septic tanks or leachfields) can be developed based on soil type and other physical characteristics that may provide selection criteria.

6.2.3.2 Recommended BMPs: Septic Systems

If additional septic system reductions/controls beyond those outlined earlier are necessary, studies are recommended to be undertaken to assess the reduction of fecal coliform as a result of the proposed septic system alternatives. PREQB in consultation with local governments should determine whether additional treatment requirements such

as clustered treatment and/or on-site upgrades, or sewering with centralized treatment and discharge out of the watersheds are necessary to achieve these TMDLs.

BMP pollutant removal efficiencies for septic systems are largely dependent on site-specific characteristics that dictate the design and placement of these features. Therefore, recommendations for BMPs should should be made on a case by case basis, or clustered depending on the type of management.

6.2.4 Effectiveness of Proposed Watershed Management Measures

The potential effectiveness of the suggested management measures will largely depend on the watershed-wide implementation success as well as the effectiveness of the individual practices. The amount of research conducted on the efficiency of BMPs in reducing pollutant transport to receiving waters has grown steadily in recent years.

However, land use-based BMP pollutant removal efficiencies are largely dependent on site-specific characteristics that dictate the design and placement of these features. Efficiency data based on local BMP implementation projects should be reviewed rather than literature values or regional efficiency data to guide the implementation process. Based on accurate pollutant removal estimates, an informed strategy for attainment of the TMDL can be developed, implemented, and verified by future monitoring.

Recommended future monitoring locations include the existing calibration location (USGS50029000; see Figure 3-1), and at the discharge point of each assessment unit (see Figure 5-3). Monitoring at the calibration station would provide a continuous flow record that would provide historical data and ongoing record during TMDL implementation process. Monitoring conducted at assessment unit pour points will provide estimates of implementation.

While ideally all subwatersheds should be monitored at their discharge points, limited resources may be available to establish year round sampling at each of the sampling stations recommended. If resources are unavailable, it is suggested that year round data collection should focus upon certain subwatersheds for TMDL compliance and evaluation of BMP effectiveness. One such approach involves the use of paired subwatershed analysis that could be employed to evaluate pollutant load reduction as a result of the implementation of management measures.

The recommended stations were selected based on their location and availability of long term data. It is recommended that future monitoring be focused on weather conditions (dry weather vs. wet weather) and flow regime (low flows, high flows, and average flows).

Flow in the stream should be measured concurrently and weather condition should be noted. The current sampling schedule for these stations is 3 times a year, an increase in the frequency of sampling is recommended. Fecal coliform bacteria samples should be

collected by trained personnel and tested by a certified laboratory. The analysis method should be the following: Fecal coliform bacteria, M-FC MF (0.7 micron) method, water, colonies per 100 milliliters.

Additionally, it would be useful to monitor fecal coliform concentrations during the rising, peak and recession of the streamflow hydrograph for a storm that occurs after a period of dry weather. This would allow for an evaluation of the surface accumulation and washoff rates of fecal coliform bacteria. This special monitoring effort could be done once a year.

In addition to fecal coliform bacteria and flow, several other water quality parameters should normally be sampled and the data recorded by trained volunteers. These include pH, dissolved oxygen, biological oxygen demand (BOD), temperature, conductivity, and turbidity. Observations regarding the condition of the stream and adjacent areas should be made.

Table 6-1. Recommended stations to focus water quality monitoring efforts per watershed

Watershed	Agency	Site No.	Station name	Municipality
Arecibo	USGS	50020500	RÍO GRANDE DE ARECIBO NR ADJUNTAS, PR	Adjuntas
Arecibo	USGS	50025000	RÍO GRANDE DE ARECIBO NR UTUADO, PR	Utuado
Arecibo	USGS	50026050	RÍO CAONILLAS ABV LAGO CAONILLAS, PR	Utuado
Arecibo	USGS	50027250	RÍO GDE. DE ARECIBO BLW LAGO DOS BOCAS NR FLORIDA	Arecibo
Arecibo	USGS	50028000	RÍO TANAMA NR UTUADO, PR	Utuado
Arecibo	USGS	50029000	RÍO GRANDE DE ARECIBO AT CENTRAL CAMBALACHE, PR	Arecibo

Table 6-2. Details of recommended stations to focus water quality monitoring efforts per watershed

Watershed	Agency	Site no	Latitude	Longitude	Elevation, ft	Drainage area, mi^2
Arecibo	USGS	50020500	18.17968000	-66.73628560	1449.0	12.7
Arecibo	USGS	50025000	18.30106335	-66.69934089	295.3	66.2
Arecibo	USGS	50026050	18.23828863	-66.63906219	853.0	40.4
Arecibo	USGS	50027250	18.34522789	-66.66684060	131.2	0.7
Arecibo	USGS	50028000	18.29856345	-66.78239750	935.0	18.4
Arecibo	USGS	50029000	18.45355694	-66.70239710	12.1	200.0

Table 6-3. Summary of available fecal coliform bacteria data (from 1/1/1980 onwards) for recommended stations.

Watershed	Site No.	Count	Min date	Max date	Min conc. c/100ml	Ave conc. c/100ml	Max conc. c/100ml
Arecibo	50020500	79	1/16/1980	3/5/2009	30	5,531	91,000
Arecibo	50025000	79	1/15/1980	5/6/2009	52	32,145	600,000
Arecibo	50026050	77	1/15/1980	5/6/2009	6	2,716	41,000
Arecibo	50027250	77	1/29/1980	5/6/2009	1	1,511	79,000
Arecibo	50028000	85	1/15/1980	3/12/2009	5	2,421	42,000
Arecibo	50029000	80	1/30/1980	5/5/2009	18	2,126	22,000

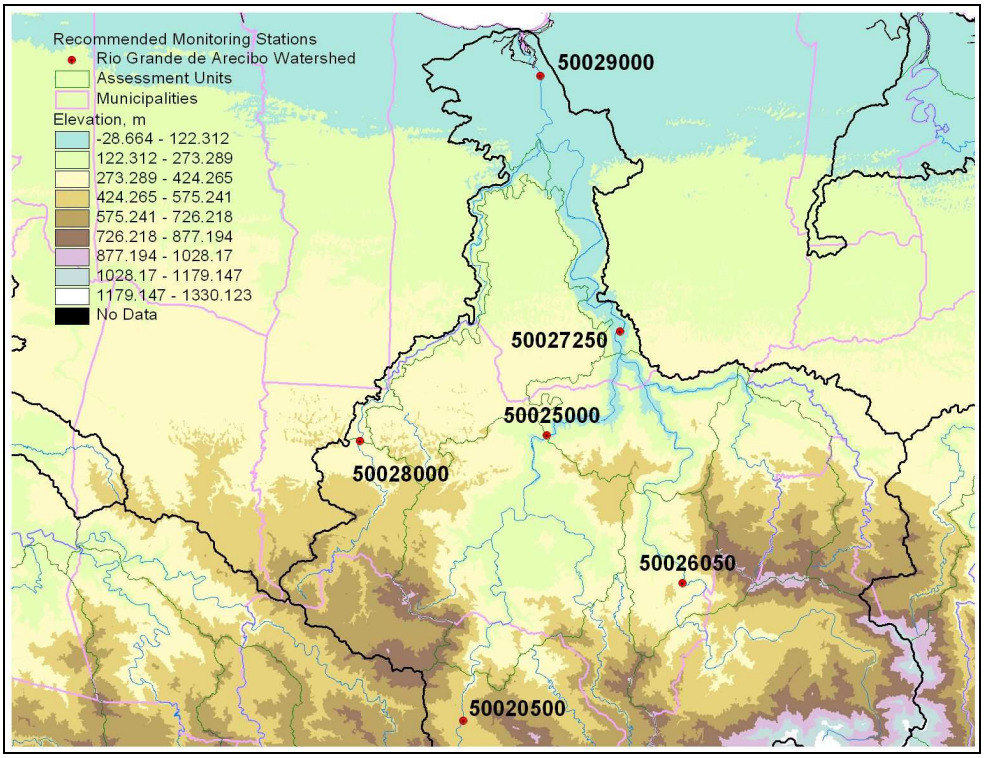

Figure 3. Recommended monitoring stations for the Río Grande de Arecibo watershed

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APPENDIX A: SANITARY SYSTEM TYPE

Ward Name	Community Name	Sanitary System Type		
		Latrine	Septic Tank	Sanitary Sewer
Florida Afuera	Bufalo		x	x
	Cachete			
	Cimarrona			
	Cruce Dávila			
	Imberry			
	Juana Gómez			
	La Via			
	Magueyes			
	Pajonal			
	Palenque			
	Puerto Blanco			
	Quebrada			
	Riachuelo			
	Sabana Aguila			
	Sabana Pikes			
	San Agustín			
Garrochales	Cite			
	Figueroa			
Barrancas	Barrancas			
	Barrancas Abajo I		x	
	Barrancas abajo II	x	x	
	Callao	x	x	
	La Pacheca	x	x	
	Lajitas			x
	Las Villas			
	Llano		x	
	Matadero		x	
	Palmarito		x	
	Parcelas Nueva			x
	Parcelas Viejas			x
	Sector Mana	x		
Cañabón	Apolo		x	
	Cantera		x	
	Cañabón Abajo	x	x	
	Cuba Libre		x	
	La Torre		x	
	Las Villas		x	
	Los Mateo		x	
	Los Rios		x	
	Pájaros		x	
Palo Hincado	Carro			
	El Puente			
	La Tiza II	x	x	
	Padre Díaz			x
	Tortuguero			x
Quebradillas	El Farallón	x	x	
	El Hotel	x	x	
	La Gallera	x	x	
Cialitos	Cialitos Centro			
	Hato Viejo	x	x	
	La Quinta			
	Las Delicias	x	x	
	Oreste			

Ward Name	Community Name	Sanitary System Type		
		Latrine	Septic Tank	Sanitary Sewer
	Ramos			
	Santa Ana			
Cordillera	Cordillera		x	
Frontón	El Hoyo Frio		x	
	El Perico		x	
	El Perol		x	
	Frontón Altura		x	
	Frontón Centro		x	
	Frontón Parcelas		x	
	Frontón Sabana		x	
	Limón		x	
	Parcelas Segui		x	
	Yunez		x	
Hato Viejo	Caliche		x	
	Camarones		x	
	Campamento		x	
	Cuchilla		x	
	Cumbre		x	
	El Cuco		x	
	Hato Viejo		x	
	La Grama		x	
	Lajas		x	
	Negrito		x	
	Puente		x	
	Vieques		x	
Jaguas	Cajorales		x	
	Jaguas		x	
	La Línea		x	
	Las Casitas		x	
	Los Leones		x	
	Los Leones			
	Naranjo Dulce			
	Santa Clara			
Pesas	Cerro Gordo			
	Chayote			
	Fullana			
	La Cuarta			
	La Loma			
	La Pesa			
	Penonales			
	Tortuguero			
	Vista Bella			
Pozas	Blacho			
	Capilla			
	Cascana			
	El Hoyo			
	Lamoza			
	Llamadas			
	Manicabao			
	Montes			
	Pozas			
	Puentes			
Toro Negro	La Mina			
	La Piedra			
	Toro Negro			

Ward Name	Community Name	Sanitary System Type		
		Latrine	Septic Tank	Sanitary Sewer
	Fanduca			
Cuchillas	Hormigas II			
	La Pajona			
	Los Cocos			
Magueyes	Magueyes		x	
Mana	Mana I	x	x	
Padilla	Berio	x	x	
Palmarito	Antonio Berrios	x	x	
	Eduardo Rivera	x	x	
	El Negro	x	x	
	El sapo	x	x	
	Finito Santiago	x	x	
	Geno Rivera	x	x	
	Los Peña	x	x	
	Marciano Burgos	x	x	
	Pino Ortiz	x	x	
	Sector La Pra	x	x	
	Varo Mercado	x	x	
--	Villa Atenas Urb.		x	
--	Villa Nitza (Urb.)		x	
Bajura Adentro	Bajura Adentro			
Bajura Afuera	--			
Coto Norte	Bda. Santa Rosa	x	x	
	Alta Gracia			
	Bayaney			
	Campo Alegre			x
	Canto Marino			
	Coto Norte			
	Curiel		x	
	Curriel			
	Francisco Vazquez			
	Guayaney		x	
	Villa Nitza			
	Vista Atenas		x	
	Vista de Atenaz			
Coto Sur	Acueducto			
	Bda. Miranda			
	Cerro Gandía			
	Cerro Quiñonez			
	Cordova Dávila			
	Coto Sur			
	El Polvorín			
	Gardenias			
	Glorieta			
	La Grua			
	La PRA			
	Matrullas			
	Palo Alto			
	Pueblito Rojo			
	Sabana Seca			
	Villa Evangelina			
	Villa Rodríguez			
Rio Arriba Poniente	Mantequilla			
	MonteBello			
	Rayo			

Ward Name	Community Name	Sanitary System Type		
		Latrine	Septic Tank	Sanitary Sewer
	Sector El Cuco			
Rio Arriba Saliente	Sector Canta Gallo			
Tierras Nuevas Pon.	El Alto			
	El Cantito			
	La Esperanza			
	La Glorieta			
	La Luisa			x
	La Mona			
	Shangai			
	Tierras Nuevas Pon.		x	x
Tierras Nuevas Sal.	Tierras Nuevas Pon.			
	El Farol			
	El Pulguero			
	Guayaney			
	Hermanos Mena			
	La Charca			
	Laguna			
	Los Molinos			
	Los Rabanos			
	San José			
	Tortuguero			
	Villas De Mar Chiquita			
Morovis Sur	Carmen			
	Coroza			
	El Jobo			
	La Cuarenta		x	
	La Linea			
	Las Flores			
	Palo de Pan			
	Pellejas			
	Vereda			
Pasto	Culebra			
	Limones			
	Ramal Galan		x	
	Socucho			
Perchas	Arraijanes			
	Perchas Diaz			
	Perchas Quiros			
	Radar		x	
Rio Grande	Delgado			
	El Cerro			
San Lorenzo	La PRA			
	San Lorenzo			
Torrecillas	Cabachuelas			
	Lajas			
	Parcelas Nuevas		x	
	Torrecillas			
	Ventanas			
Cedro Arriba	Bruquenas		x	
	El Abanico		x	
	El Banco		x	
	El riioto		x	
	Feijo	x	x	
	La Amargura	x	x	
	La Pajona	x	x	

Ward Name	Community Name	Sanitary System Type		
		Latrine	Septic Tank	Sanitary Sewer
	Las Canicas	x	x	
	Las Cruces	x	x	
	Los López	x	x	
	Los Ríos		x	
	Mana		x	
Ala de Piedra	Ala de Piedra		x	
	Doña Juana	x	x	
	El Frio	x	x	
	El Guineo	x	x	
	La Torre	x	x	
Barros	Sanamuertos		x	
	Vietnam			
Bauta Abajo	Bauta Abajo	x	x	
Bauta Arriba	Barrio Salto	x	x	
	Bauta arriba Centro	x	x	
	La Pica	x	x	
	Puente Doble	x	x	
Bermejales	Bermejales		x	
	Buena Vista		x	
	El Collao		x	
	El Cometa		x	
	La Cuchilla		x	
Botijas	Botijas I		x	
	Botijas II	x	x	
	Casablanca	x	x	
	El Cruce de Mayo	x	x	
	El Puente	x	x	
	La Loma	x	x	
	La Médica		x	
	La Reves		x	
	Las Parcelas		x	
	Parcelas Los Morales		x	
	Puente		x	
	Rabanal		x	
Cacao				
Damian Abajo	Area Recreativa		x	
	Caimito		x	
	Collares		x	
	Damian Abajo		x	
	La Hacienda		x	
	La Sapia		x	
	Palma Gorda		x	
Damian Arriba	Culebra		x	
	Damian Arriba		x	
	Gregorio	x	x	
	Román Diaz	x	x	
Gato	Bajuras	x	x	
	Gato I	x	x	
La Sierra	Taita	x	x	
Mata de Cama	El Perico	x	x	
Mata de Caña	El Jobo			
Orocovis	Las Fábricas			
	Las Marianas			
	Pueblito Coli	x	x	
	Pueblo	x	x	

Ward Name	Community Name	Sanitary System Type		
		Latrine	Septic Tank	Sanitary Sewer
	Vietnam			
Pellejas	Artemio	x	x	
	Gallera	x	x	
	Novilla			
	Pellejas II	x	x	
Sabana	La Vega			
	Los Figueroa			
	Los Mateo			
	Los Melendez	x	x	
	Los Padilla	x	x	
	Sabana			
Saltos	Blandito			
	Cabra	x	x	
	Coli	x	x	
	El Hoyo			
	La Choricera	x	x	
	Los Chorritos			
	Los Rivera	x	x	
	Puente Doble			

APPENDIX B: TIDAL PRISM MODEL

The tidal prism model assumes that a single control volume can represent a waterbody, and that the pollutant is well-mixed in the waterbody system.

The mass balance of water can be written as follows (Guo and Lordi, 2000):

$$\frac{dV}{dT} = (Q_0 - Q_b + Q_f) \quad (1)$$

where:

Q_0 is the quantity of water that enters the embayment on the flood tide through the ocean boundary (m^3 per tidal cycle)
Q_b is the quantity of mixed water that leaves the bay on the ebb tide that did not enter the bay on the previous flood tide (m^3 per tidal cycle)
Q_f is total freshwater input (m^3 per tidal cycle)
V is the volume of the bay (m^3)
T is the dominant tidal period (hours)

It is further assumed that Q_0 is the pure ocean water that did not flow out of the embayment on the previous ebb tide, and that Q_b is the embayment water that did not enter into the system on the previous flood tide. The mass balance for the fecal coliform bacteria can then be written as follows:

$$V\frac{dC}{dT} = Q_0C_0 - Q_bC + L_f - kVC \quad (2)$$

where:

L_f ($Q_f . C_f$) is the loading from upstream within the tidal cycle
k is the fecal coliform bacteria decay rate (or a damped parameter for the net loss of fecal coliform bacteria)
C is fecal coliform bacteria concentration in the embayment
C_0 is the fecal coliform bacteria concentration from outside the embayment

In a steady-state condition, the mass balance equations for the water can be written as follows:

$$Q_b = Q_0 + Q_f \quad (3)$$

A numerical solution for equation (2) can be developed for the fecal coliform bacteria concentration to simulate a time-variable result by substituting finite difference approximations for the derivatives. The fecal coliform bacteria concentration in the embayment can be calculated from equation (2) as follows:

$$Q_0C_0 - Q_bC^{i+1} + Q_fC_f - kVC^{i+1} = V\frac{C^{i+1} - C^i}{\Delta t} \quad (4)$$

$$C^{i+1} = \frac{[\Delta t/V\,(Q_0 C_0 + L_f) + C_i]}{[1 + \Delta t/V\,(Q_b + kV)]} \tag{5}$$

The daily load can be estimated based on the dominant tidal period in the area. The dominant tidal period was assumed to be approximately 12 hours. If fecal coliform bacteria concentration is in MPN/100ml, the daily load (counts day^{-1}) can be estimated as:

$$Load = Load_T \times \frac{24}{12} \times 10000 \tag{6}$$

Since Q_0 (the quantity of water that enters the embayment on the flood tide through the ocean boundary) is unknown, it was determined indirectly.

Usually Q_0 is not known and the only known quantity at the ocean boundary is the tidal range of the tidal embayment. A tidal range time series was computed for the dominant tidal period based on observed hourly data from the San Juan, PR station (NOAA/NOS # 9755371). From that, Q_T, the total ocean water entering the bay on the flood tide, can be calculated. Q_T can then be used to calculate Q_0, the volume of new ocean water entering the embayment on the flood tide by using the ocean tidal exchange ratio β:

$$Q_0 = \beta \cdot Q_T \tag{7}$$

where β is the exchange ratio and Q_T is the total ocean water entering the bay on the flood tide. The numerical value of β is usually smaller than 1, and it represents the fraction of new ocean water entering the embayment.

In general, the exchange ratio values range from 0.3 to 0.7 (VDEQ, 2005, Kuo et al., 1998; Shen et al., 2002). A value of 0.8 was used for the exchange ratio in the Arecibo River system. Once Q_0 is known, then Q_b can be calculated from equation (3).

APPENDIX C: LSPC CALIBRATED INPUT FILE

```
c-----------------------------------------------------------------------------------------
c LSPC -- Loading Simulation Program, C++
c Version 4.01 - Feb 22, 2007
c
c Designed and maintained by:
c    Tetra Tech, Inc.
c    10306 Eaton Place, Suite 340
c    Fairfax, VA 22030
c    (703) 385-6000
c-----------------------------------------------------------------------------------------
c LSPC MODEL POINT SOURCE INPUT FILE
c This input file was created at 00:01:09am on 11/21/2007
c-----------------------------------------------------------------------------------------
c
c    NPT:      Total   Number      of        time        series      records
c    FUNIT:     Unit   to          convert   flow        to          cfs
c    WUNIT:     Unit   to          convert   water       quality     to          Lb/hour
c    PID:      Point   Source      ID        (number     for         notation)
c    SUBBASIN:  Subbasin ID
c    PERMIT:    Point Source Index (level1)
c    PIPE:      Point Source Index Qualifier (level2)
c
c    Year  Month  Day  Hour  Minute  Flow  WithDrawal  WQ1  WQ2  WQ3  WQ4  WQ5  WQ6  WQn
c    NPT           FUNUIT      WUNIT     PID         SUBBASIN  PERMIT  PIPE
2       1       1       1       1011    septics_1011    1
1980    1       1       0       0       0.091347        0.000000        9312022796.400000
2010    1       1       0       0       0.091347        0.000000        9311990175.216000
2       1       1       2       1021    PR0024333       1
1980    1       1       0       0       0.004900        0.000000        3044729.708471
2010    1       1       0       0       0.004900        0.000000        3044729.708471
2       1       1       3       1021    PR0025283       1
1980    1       1       0       0       0.013200        0.000000        7754442.650254
2010    1       1       0       0       0.013200        0.000000        7754442.650254
2       1       1       4       1021    septics_1021    1
1980    1       1       0       0       0.053578        0.000000        5461805613.600000
2010    1       1       0       0       0.053578        0.000000        5461759026.471599
2       1       1       5       1031    PR0025411       1
1980    1       1       0       0       0.112000        0.000000        642229.560000
2010    1       1       0       0       0.112000        0.000000        642229.560000
2       1       1       6       1031    septics_1031    1
1980    1       1       0       0       0.043977        0.000000        4483068152.400000
2010    1       1       0       0       0.043977        0.000000        4483049293.278001
2       1       1       7       1041    septics_1041    1
1980    1       1       0       0       0.088070        0.000000        8977961484.000000
2010    1       1       0       0       0.088070        0.000000        8977947925.820400
2       1       1       8       1051    septics_1051    1
1980    1       1       0       0       0.084336        0.000000        8597313043.199999
2010    1       1       0       0       0.084336        0.000000        8597354329.386000
2       1       1       9       1061    PR0022934       1
1980    1       1       0       0       0.003100        0.000000        557673.626325
2010    1       1       0       0       0.003100        0.000000        557673.626325
2       1       1       10      1061    septics_1061    1
1980    1       1       0       0       0.144147        0.000000        14694518156.399998
2010    1       1       0       0       0.144147        0.000000        14694470549.859600
2       1       1       11      1071    PR0022951       1
1980    1       1       0       0       0.082600        0.000000        3780102.535146
2010    1       1       0       0       0.082600        0.000000        3780102.535146
2       1       1       12      1071    septics_1071    1
1980    1       1       0       0       0.041068        0.000000        4186521201.600000
2010    1       1       0       0       0.041068        0.000000        4186530376.308001
2       1       1       13      1081    PR0020583       1
1980    1       1       0       0       0.096500        0.000000        2187358185.482617
2010    1       1       0       0       0.096500        0.000000        2187358185.482617
2       1       1       14      1081    septics_1081    1
1980    1       1       0       0       0.053710        0.000000        5475261852.000000
2010    1       1       0       0       0.053710        0.000000        5475301201.303200
2       1       1       15      1091    septics_1091    1
1980    1       1       0       0       0.109787        0.000000        11191818524.400000
2010    1       1       0       0       0.109787        0.000000        11191823825.342400
2       1       1       16      1101    septics_1101    1
1980    1       1       0       0       0.294227        0.000000        29993853452.400005
2010    1       1       0       0       0.294227        0.000000        29993828374.864796
2       1       1       17      1111    septics_1111    1
1980    1       1       0       0       0.047010        0.000000        4792255812.000000
2010    1       1       0       0       0.047010        0.000000        4792263967.296001
2       1       1       18      1121    septics_1121    1
1980    1       1       0       0       0.004813        0.000000        490642995.600000
2010    1       1       0       0       0.004813        0.000000        490624442.301600
2       1       1       19      1122    PR0022926       1
1980    1       1       0       0       0.023800        0.000000        132557.893796
2010    1       1       0       0       0.023800        0.000000        132557.893796
2       1       1       20      1122    septics_1122    1
1980    1       1       0       0       0.219416        0.000000        22367530339.199997
2010    1       1       0       0       0.219416        0.000000        22367566222.502399
2       1       1       21      1123    septics_1123    1
1980    1       1       0       0       0.074168        0.000000        7560774921.600000
2010    1       1       0       0       0.074168        0.000000        7560807848.607599
2       1       1       22      1124    PR0022942       1
1980    1       1       0       0       0.027500        0.000000        952527.868974
2010    1       1       0       0       0.027500        0.000000        952527.868974
2       1       1       23      1124    septics_1124    1
1980    1       1       0       0       0.162642        0.000000        16579920650.400002
2010    1       1       0       0       0.162642        0.000000        16579946849.288401
2       1       1       24      1125    septics_1125    1
1980    1       1       0       0       0.030413        0.000000        3100337715.600000
2010    1       1       0       0       0.030413        0.000000        3100329050.598000
2       1       1       25      1131    septics_1131    1
1980    1       1       0       0       0.344688        0.000000        35137908345.600006
2010    1       1       0       0       0.344688        0.000000        35137908651.423599
2       1       1       26      1141    septics_1141    1
1980    1       1       0       0       0.344934        0.000000        35162985880.800003
2010    1       1       0       0       0.344934        0.000000        35163018298.101601
2       1       1       27      1151    PR0000353       1
1980    1       1       0       0       0.205800        0.000000        37763098.128000
2010    1       1       0       0       0.205800        0.000000        37763098.128000
2       1       1       28      1151    PR0023396       1
1980    1       1       0       0       0.006400        0.000000        6489758.818207
2010    1       1       0       0       0.006400        0.000000        6489758.818207
2       1       1       29      1151    PR0023990       1
1980    1       1       0       0       0.539800        0.000000        50313292.847202
2010    1       1       0       0       0.539800        0.000000        50313292.847202
2       1       1       30      1151    septics_1151    1
1980    1       1       0       0       0.293571        0.000000        29926980025.200001
2010    1       1       0       0       0.293571        0.000000        29926963510.725601
2       1       1       31      2011    septics_2011    1
1980    1       1       0       0       0.031844        0.000000        3246215572.800000
2010    1       1       0       0       0.031844        0.000000        3246190393.323600
2       1       1       32      2021    PR0020214       1
1980    1       1       0       0       0.533600        0.000000        126113998.894704
2010    1       1       0       0       0.533600        0.000000        126113998.894704
2       1       1       33      2021    PR0022691       1
1980    1       1       0       0       0.007500        0.000000        24385.609305
2010    1       1       0       0       0.007500        0.000000        24385.609305
2       1       1       34      2021    septics_2021    1
1980    1       1       0       0       0.202313        0.000000        20624029995.599998
2010    1       1       0       0       0.202313        0.000000        20624001452.063999
2       1       1       35      2022    septics_2022    1
1980    1       1       0       0       0.014895        0.000000        1518414174.000000
2010    1       1       0       0       0.014895        0.000000        1518424877.826000
2       1       1       36      2031    septics_2031    1
1980    1       1       0       0       0.060671        0.000000        6184874545.200001
2010    1       1       0       0       0.060671        0.000000        6184858744.314000
2       1       1       37      2041    PR0026271       1
1980    1       1       0       0       0.247600        0.000000        757219.233600
2010    1       1       0       0       0.247600        0.000000        757219.233600
2       1       1       38      2041    septics_2041    1
1980    1       1       0       0       0.053971        0.000000        5501868505.200000
2010    1       1       0       0       0.053971        0.000000        5501821510.306800
2       1       1       39      2051    septics_2051    1
```

1980	1	1	0	0	0.036701	0.000000	3741343981.200000
2010	1	1	0	0	0.036701	0.000000	3741328893.902400
2	1	1	40	2061	septics_2061	1	
1980	1	1	0	0	0.007207	0.000000	734690228.400000
2010	1	1	0	0	0.007207	0.000000	734667087.747600
2	1	1	41	2071	PR0024155	1	
1980	1	1	0	0	0.036900	0.000000	18723657.660651
2010	1	1	0	0	0.036900	0.000000	18723657.660651
2	1	1	42	2071	PR0026255	1	
1980	1	1	0	0	0.027900	0.000000	5119487.064000
2010	1	1	0	0	0.027900	0.000000	5119487.064000
2	1	1	43	2071	septics_2071	1	
1980	1	1	0	0	0.197755	0.000000	20159382006.000000
2010	1	1	0	0	0.197755	0.000000	20159332972.282799
2	1	1	44	2081	PR0024121	1	
1980	1	1	0	0	0.019300	0.000000	3821238.378264
2010	1	1	0	0	0.019300	0.000000	3821238.378264
2	1	1	45	2081	PR0026531	1	
1980	1	1	0	0	0.852500	0.000000	156428771.400000
2010	1	1	0	0	0.852500	0.000000	156428771.400000
2	1	1	46	2081	septics_2081	1	
1980	1	1	0	0	0.388853	0.000000	39640141443.600006
2010	1	1	0	0	0.388853	0.000000	39640142768.835602
2	1	1	47	2082	septics_2082	1	
1980	1	1	0	0	0.026408	0.000000	2692063209.600000
2010	1	1	0	0	0.026408	0.000000	2692086554.134800
2	1	1	48	2083	septics_2083	1	
1980	1	1	0	0	0.037426	0.000000	3815251351.200000
2010	1	1	0	0	0.037426	0.000000	3815246967.728400
2	1	1	49	2091	septics_2091	1	
1980	1	1	0	0	0.089777	0.000000	9151975112.400000
2010	1	1	0	0	0.089777	0.000000	9152022311.175600
2	1	1	50	2101	PR0023132	1	
1980	1	1	0	0	0.003800	0.000000	442519.613316
2010	1	1	0	0	0.003800	0.000000	442519.613316
2	1	1	51	2101	septics_2101	1	
1980	1	1	0	0	0.105262	0.000000	10730534594.400000
2010	1	1	0	0	0.105262	0.000000	10730540914.754398
2	1	1	52	2102	septics_2102	1	
1980	1	1	0	0	0.011679	0.000000	1190571274.800000
2010	1	1	0	0	0.011679	0.000000	1190589522.274800
2	1	1	53	2111	septics_2111	1	
1980	1	1	0	0	0.011530	0.000000	1175382036.000000
2010	1	1	0	0	0.011530	0.000000	1175354511.876000
2	1	1	54	2112	septics_2112	1	
1980	1	1	0	0	0.020685	0.000000	2108653722.000000
2010	1	1	0	0	0.020685	0.000000	2108641285.173600
2	1	1	55	2121	PR0020915	1	
1980	1	1	0	0	1.114000	0.000000	184432599954.374820
2010	1	1	0	0	1.114000	0.000000	184432599954.374820
2	1	1	56	2121	septics_2121	1	
1980	1	1	0	0	0.307638	0.000000	31360986885.600002
2010	1	1	0	0	0.307638	0.000000	31361031433.904396
2	1	1	57	2122	septics_2122	1	
1980	1	1	0	0	0.033723	0.000000	3437763087.600000
2010	1	1	0	0	0.033723	0.000000	3437756767.245600
2	1	1	58	2123	septics_2123	1	
1980	1	1	0	0	0.013121	0.000000	1337570485.200000
2010	1	1	0	0	0.013121	0.000000	1337579354.084400
2	1	1	59	2131	PR0022713	1	
1980	1	1	0	0	0.018600	0.000000	56181.630262
2010	1	1	0	0	0.018600	0.000000	56181.630262
2	1	1	60	2131	septics_2131	1	
1980	1	1	0	0	0.099791	0.000000	10172814289.200001
2010	1	1	0	0	0.099791	0.000000	10172769435.072001
2	1	1	61	2132	PR0024210	1	
1980	1	1	0	0	0.051600	0.000000	119438090.103578
2010	1	1	0	0	0.051600	0.000000	119438090.103578
2	1	1	62	2132	PR0025950	1	
1980	1	1	0	0	0.074100	0.000000	151076.858400
2010	1	1	0	0	0.074100	0.000000	151076.858400
2	1	1	63	2132	septics_2132	1	
1980	1	1	0	0	0.031977	0.000000	3259773752.400000
2010	1	1	0	0	0.031977	0.000000	3259732568.155201
2	1	1	64	2133	septics_2133	1	
1980	1	1	0	0	0.007663	0.000000	781175415.600000
2010	1	1	0	0	0.007663	0.000000	781218638.668800
8612	1	1	65	2141	Dos_Bocas_DAM	1	
1982	4	29	0	0	0.000000	-20.000000	0.000000
1982	4	30	0	0	0.000000	-114.080000	0.000000
1982	5	1	0	0	0.000000	-237.700000	0.000000
1982	5	2	0	0	0.000000	-65.710000	0.000000
1982	5	3	0	0	0.000000	-241.060000	0.000000
1982	5	4	0	0	0.000000	-198.070000	0.000000
1982	5	5	0	0	0.000000	-20.000000	0.000000
1982	5	6	0	0	0.000000	-20.000000	0.000000
1982	5	7	0	0	0.000000	-38.830000	0.000000
1982	5	8	0	0	0.000000	-77.800000	0.000000
1982	5	9	0	0	0.000000	-20.000000	0.000000
1982	5	10	0	0	0.000000	-323.030000	0.000000
1982	5	11	0	0	0.000000	-269.950000	0.000000
1982	5	12	0	0	0.000000	-538.030000	0.000000
1982	5	13	0	0	0.000000	-280.030000	0.000000
1982	5	14	0	0	0.000000	-938.460000	0.000000
1982	5	15	0	0	0.000000	-460.090000	0.000000
1982	5	16	0	0	0.000000	-26.070000	0.000000
1982	5	17	0	0	0.000000	-101.320000	0.000000
1982	5	18	0	0	0.000000	-20.000000	0.000000
1982	5	19	0	0	0.000000	-71.750000	0.000000
1982	5	20	0	0	0.000000	-175.220000	0.000000
1982	5	21	0	0	0.000000	-259.880000	0.000000
1982	5	22	0	0	0.000000	-91.910000	0.000000
1982	5	23	0	0	0.000000	-125.500000	0.000000
1982	5	24	0	0	0.000000	-367.370000	0.000000
1982	5	25	0	0	0.000000	-152.380000	0.000000
1982	5	26	0	0	0.000000	-165.820000	0.000000
1982	5	27	0	0	0.000000	-44.880000	0.000000
1982	5	28	0	0	0.000000	-226.280000	0.000000
1982	5	29	0	0	0.000000	-241.060000	0.000000
1982	5	30	0	0	0.000000	-20.000000	0.000000
1982	5	31	0	0	0.000000	-286.750000	0.000000
1982	6	1	0	0	0.000000	-421.120000	0.000000
1982	6	2	0	0	0.000000	-320.340000	0.000000
1982	6	3	0	0	0.000000	-38.160000	0.000000
1982	6	4	0	0	0.000000	-374.090000	0.000000
1982	6	5	0	0	0.000000	-280.030000	0.000000
1982	6	6	0	0	0.000000	-71.750000	0.000000
1982	6	7	0	0	0.000000	-528.620000	0.000000
1982	6	8	0	0	0.000000	-233.000000	0.000000
1982	6	9	0	0	0.000000	-273.310000	0.000000
1982	6	10	0	0	0.000000	-334.450000	0.000000
1982	6	11	0	0	0.000000	-241.740000	0.000000
1982	6	12	0	0	0.000000	-20.000000	0.000000
1982	6	13	0	0	0.000000	-20.000000	0.000000
1982	6	14	0	0	0.000000	-20.000000	0.000000
1982	6	15	0	0	0.000000	-20.000000	0.000000
1982	6	16	0	0	0.000000	-20.000000	0.000000
1982	6	17	0	0	0.000000	-20.000000	0.000000
1982	6	18	0	0	0.000000	-20.000000	0.000000
1982	6	19	0	0	0.000000	-20.000000	0.000000
1982	6	20	0	0	0.000000	-20.000000	0.000000
1982	6	21	0	0	0.000000	-24.720000	0.000000
1982	6	22	0	0	0.000000	-20.000000	0.000000
1982	6	23	0	0	0.000000	-20.000000	0.000000
1982	6	24	0	0	0.000000	-20.000000	0.000000
1982	6	25	0	0	0.000000	-20.000000	0.000000
1982	6	26	0	0	0.000000	-20.000000	0.000000
1982	6	27	0	0	0.000000	-20.000000	0.000000
1982	6	28	0	0	0.000000	-20.000000	0.000000
1982	6	29	0	0	0.000000	-61.680000	0.000000

1982	6	30	0	0	0.000000	-305.560000	0.000000
1982	7	1	0	0	0.000000	-136.930000	0.000000
1982	7	2	0	0	0.000000	-149.020000	0.000000
1982	7	3	0	0	0.000000	-20.000000	0.000000
1982	7	4	0	0	0.000000	-20.000000	0.000000
1982	7	5	0	0	0.000000	-20.000000	0.000000
1982	7	6	0	0	0.000000	-286.750000	0.000000
1982	7	7	0	0	0.000000	-710.020000	0.000000
1982	7	8	0	0	0.000000	-233.670000	0.000000
1982	7	9	0	0	0.000000	-82.500000	0.000000
1982	7	10	0	0	0.000000	-20.000000	0.000000
1982	7	11	0	0	0.000000	-72.430000	0.000000
1982	7	12	0	0	0.000000	-20.000000	0.000000
1982	7	13	0	0	0.000000	-20.000000	0.000000
1982	7	14	0	0	0.000000	-20.000000	0.000000
1982	7	15	0	0	0.000000	-125.500000	0.000000
1982	7	16	0	0	0.000000	-50.260000	0.000000
1982	7	17	0	0	0.000000	-41.520000	0.000000
1982	7	18	0	0	0.000000	-27.410000	0.000000
1982	7	19	0	0	0.000000	-79.820000	0.000000
1982	7	20	0	0	0.000000	-248.450000	0.000000
1982	7	21	0	0	0.000000	-247.110000	0.000000
1982	7	22	0	0	0.000000	-54.960000	0.000000
1982	7	23	0	0	0.000000	-20.000000	0.000000
1982	7	24	0	0	0.000000	-48.910000	0.000000
1982	7	25	0	0	0.000000	-20.000000	0.000000
1982	7	26	0	0	0.000000	-20.000000	0.000000
1982	7	27	0	0	0.000000	-306.910000	0.000000
1982	7	28	0	0	0.000000	-288.090000	0.000000
1982	7	29	0	0	0.000000	-279.360000	0.000000
1982	7	30	0	0	0.000000	-91.240000	0.000000
1982	7	31	0	0	0.000000	-20.000000	0.000000
1982	8	1	0	0	0.000000	-20.000000	0.000000
1982	8	2	0	0	0.000000	-20.000000	0.000000
1982	8	3	0	0	0.000000	-20.000000	0.000000
1982	8	4	0	0	0.000000	-20.000000	0.000000
1982	8	5	0	0	0.000000	-20.000000	0.000000
1982	8	6	0	0	0.000000	-129.540000	0.000000
1982	8	7	0	0	0.000000	-56.300000	0.000000
1982	8	8	0	0	0.000000	-20.000000	0.000000
1982	8	9	0	0	0.000000	-253.830000	0.000000
1982	8	10	0	0	0.000000	-179.250000	0.000000
1982	8	11	0	0	0.000000	-558.180000	0.000000
1982	8	12	0	0	0.000000	-60.330000	0.000000
1982	8	13	0	0	0.000000	-114.080000	0.000000
1982	8	14	0	0	0.000000	-88.550000	0.000000
1982	8	15	0	0	0.000000	-20.000000	0.000000
1982	8	16	0	0	0.000000	-110.720000	0.000000
1982	8	17	0	0	0.000000	-181.940000	0.000000
1982	8	18	0	0	0.000000	-35.470000	0.000000
1982	8	19	0	0	0.000000	-163.800000	0.000000
1982	8	20	0	0	0.000000	-171.190000	0.000000
1982	8	21	0	0	0.000000	-20.000000	0.000000
1982	8	22	0	0	0.000000	-20.000000	0.000000
1982	8	23	0	0	0.000000	-91.240000	0.000000
1982	8	24	0	0	0.000000	-118.790000	0.000000
1982	8	25	0	0	0.000000	-20.000000	0.000000
1982	8	26	0	0	0.000000	-125.500000	0.000000
1982	8	27	0	0	0.000000	-113.410000	0.000000
1982	8	28	0	0	0.000000	-79.820000	0.000000
1982	8	29	0	0	0.000000	-175.220000	0.000000
1982	8	30	0	0	0.000000	-121.470000	0.000000
1982	8	31	0	0	0.000000	-143.640000	0.000000
1982	9	1	0	0	0.000000	-246.440000	0.000000
1982	9	2	0	0	0.000000	-464.790000	0.000000
1982	9	3	0	0	0.000000	-20.000000	0.000000
1982	9	4	0	0	0.000000	-20.000000	0.000000
1982	9	5	0	0	0.000000	-20.000000	0.000000
1982	9	6	0	0	0.000000	-20.000000	0.000000
1982	9	7	0	0	0.000000	-481.590000	0.000000
1982	9	8	0	0	0.000000	-235.690000	0.000000
1982	9	9	0	0	0.000000	-382.830000	0.000000
1982	9	10	0	0	0.000000	-327.730000	0.000000
1982	9	11	0	0	0.000000	-323.030000	0.000000
1982	9	12	0	0	0.000000	-20.000000	0.000000
1982	9	13	0	0	0.000000	-2920.450000	0.000000
1982	9	14	0	0	0.000000	-1072.830000	0.000000
1982	9	15	0	0	0.000000	-542.730000	0.000000
1982	9	16	0	0	0.000000	-662.990000	0.000000
1982	9	17	0	0	0.000000	-992.210000	0.000000
1982	9	18	0	0	0.000000	-790.650000	0.000000
1982	9	19	0	0	0.000000	-669.710000	0.000000
1982	9	20	0	0	0.000000	-323.030000	0.000000
1982	9	21	0	0	0.000000	-438.590000	0.000000
1982	9	22	0	0	0.000000	-224.940000	0.000000
1982	9	23	0	0	0.000000	-20.000000	0.000000
1982	9	24	0	0	0.000000	-20.000000	0.000000
1982	9	25	0	0	0.000000	-33.460000	0.000000
1982	9	26	0	0	0.000000	-20.000000	0.000000
1982	9	27	0	0	0.000000	-61.010000	0.000000
1982	9	28	0	0	0.000000	-135.580000	0.000000
1982	9	29	0	0	0.000000	-349.910000	0.000000
1982	9	30	0	0	0.000000	-58.990000	0.000000
1982	10	1	0	0	0.000000	-562.210000	0.000000
1982	10	2	0	0	0.000000	-65.040000	0.000000
1982	10	3	0	0	0.000000	-24.720000	0.000000
1982	10	4	0	0	0.000000	-20.000000	0.000000
1982	10	5	0	0	0.000000	-233.000000	0.000000
1982	10	6	0	0	0.000000	-219.560000	0.000000
1982	10	7	0	0	0.000000	-172.530000	0.000000
1982	10	8	0	0	0.000000	-20.000000	0.000000
1982	10	9	0	0	0.000000	-20.000000	0.000000
1982	10	10	0	0	0.000000	-58.320000	0.000000
1982	10	11	0	0	0.000000	-78.470000	0.000000
1982	10	12	0	0	0.000000	-20.000000	0.000000
1982	10	13	0	0	0.000000	-172.530000	0.000000
1982	10	14	0	0	0.000000	-138.940000	0.000000
1982	10	15	0	0	0.000000	-38.160000	0.000000
1982	10	16	0	0	0.000000	-20.000000	0.000000
1982	10	17	0	0	0.000000	-20.000000	0.000000
1982	10	18	0	0	0.000000	-118.790000	0.000000
1982	10	19	0	0	0.000000	-347.220000	0.000000
1982	10	20	0	0	0.000000	-306.910000	0.000000
1982	10	21	0	0	0.000000	-20.000000	0.000000
1982	10	22	0	0	0.000000	-265.920000	0.000000
1982	10	23	0	0	0.000000	-104.680000	0.000000
1982	10	24	0	0	0.000000	-133.570000	0.000000
1982	10	25	0	0	0.000000	-153.050000	0.000000
1982	10	26	0	0	0.000000	-30.100000	0.000000
1982	10	27	0	0	0.000000	-87.880000	0.000000
1982	10	28	0	0	0.000000	-20.000000	0.000000
1982	10	29	0	0	0.000000	-218.890000	0.000000
1982	10	30	0	0	0.000000	-225.610000	0.000000
1982	10	31	0	0	0.000000	-128.860000	0.000000
1982	11	1	0	0	0.000000	-176.570000	0.000000
1982	11	2	0	0	0.000000	-53.610000	0.000000
1982	11	3	0	0	0.000000	-142.300000	0.000000
1982	11	4	0	0	0.000000	-57.650000	0.000000
1982	11	5	0	0	0.000000	-20.000000	0.000000
1982	11	6	0	0	0.000000	-138.270000	0.000000
1982	11	7	0	0	0.000000	-50.930000	0.000000
1982	11	8	0	0	0.000000	-128.860000	0.000000
1982	11	9	0	0	0.000000	-214.190000	0.000000
1982	11	10	0	0	0.000000	-48.240000	0.000000
1982	11	11	0	0	0.000000	-195.380000	0.000000
1982	11	12	0	0	0.000000	-350.580000	0.000000
1982	11	13	0	0	0.000000	-871.270000	0.000000
1982	11	14	0	0	0.000000	-425.830000	0.000000
1982	11	15	0	0	0.000000	-415.750000	0.000000
1982	11	16	0	0	0.000000	-992.210000	0.000000

1982	11	17	0	0	0.000000	-346.550000	0.000000
1982	11	18	0	0	0.000000	-362.670000	0.000000
1982	11	19	0	0	0.000000	-450.690000	0.000000
1982	11	20	0	0	0.000000	-74.440000	0.000000
1982	11	21	0	0	0.000000	-57.650000	0.000000
1982	11	22	0	0	0.000000	-387.530000	0.000000
1982	11	23	0	0	0.000000	-311.610000	0.000000
1982	11	24	0	0	0.000000	-402.310000	0.000000
1982	11	25	0	0	0.000000	-1092.990000	0.000000
1982	11	26	0	0	0.000000	-669.710000	0.000000
1982	11	27	0	0	0.000000	-345.870000	0.000000
1982	11	28	0	0	0.000000	-582.370000	0.000000
1982	11	29	0	0	0.000000	-439.940000	0.000000
1982	11	30	0	0	0.000000	-20.000000	0.000000
1982	12	1	0	0	0.000000	-20.000000	0.000000
1982	12	2	0	0	0.000000	-20.000000	0.000000
1982	12	3	0	0	0.000000	-20.000000	0.000000
1982	12	4	0	0	0.000000	-153.050000	0.000000
1982	12	5	0	0	0.000000	-20.000000	0.000000
1982	12	6	0	0	0.000000	-249.130000	0.000000
1982	12	7	0	0	0.000000	-462.780000	0.000000
1982	12	8	0	0	0.000000	-311.610000	0.000000
1982	12	9	0	0	0.000000	-316.980000	0.000000
1982	12	10	0	0	0.000000	-151.710000	0.000000
1982	12	11	0	0	0.000000	-241.740000	0.000000
1982	12	12	0	0	0.000000	-20.000000	0.000000
1982	12	13	0	0	0.000000	-145.660000	0.000000
1982	12	14	0	0	0.000000	-135.580000	0.000000
1982	12	15	0	0	0.000000	-38.160000	0.000000
1982	12	16	0	0	0.000000	-145.660000	0.000000
1982	12	17	0	0	0.000000	-79.150000	0.000000
1982	12	18	0	0	0.000000	-20.000000	0.000000
1982	12	19	0	0	0.000000	-20.000000	0.000000
1982	12	20	0	0	0.000000	-52.940000	0.000000
1982	12	21	0	0	0.000000	-294.810000	0.000000
1982	12	22	0	0	0.000000	-155.740000	0.000000
1982	12	23	0	0	0.000000	-21.370000	0.000000
1982	12	24	0	0	0.000000	-20.000000	0.000000
1982	12	25	0	0	0.000000	-20.000000	0.000000
1982	12	26	0	0	0.000000	-20.000000	0.000000
1982	12	27	0	0	0.000000	-864.550000	0.000000
1982	12	28	0	0	0.000000	-500.400000	0.000000
1982	12	29	0	0	0.000000	-332.440000	0.000000
1982	12	30	0	0	0.000000	-568.930000	0.000000
1982	12	31	0	0	0.000000	-208.810000	0.000000
1983	1	1	0	0	0.000000	-20.000000	0.000000
1983	1	2	0	0	0.000000	-203.440000	0.000000
1983	1	3	0	0	0.000000	-296.830000	0.000000
1983	1	4	0	0	0.000000	-115.430000	0.000000
1983	1	5	0	0	0.000000	-172.530000	0.000000
1983	1	6	0	0	0.000000	-267.940000	0.000000
1983	1	7	0	0	0.000000	-67.720000	0.000000
1983	1	8	0	0	0.000000	-20.000000	0.000000
1983	1	9	0	0	0.000000	-32.120000	0.000000
1983	1	10	0	0	0.000000	-302.200000	0.000000
1983	1	11	0	0	0.000000	-366.700000	0.000000
1983	1	12	0	0	0.000000	-26.740000	0.000000
1983	1	13	0	0	0.000000	-142.300000	0.000000
1983	1	14	0	0	0.000000	-20.000000	0.000000
1983	1	15	0	0	0.000000	-20.000000	0.000000
1983	1	16	0	0	0.000000	-20.000000	0.000000
1983	1	17	0	0	0.000000	-181.940000	0.000000
1983	1	18	0	0	0.000000	-402.310000	0.000000
1983	1	19	0	0	0.000000	-323.700000	0.000000
1983	1	20	0	0	0.000000	-246.440000	0.000000
1983	1	21	0	0	0.000000	-266.600000	0.000000
1983	1	22	0	0	0.000000	-128.860000	0.000000
1983	1	23	0	0	0.000000	-118.110000	0.000000
1983	1	24	0	0	0.000000	-333.780000	0.000000
1983	1	25	0	0	0.000000	-20.000000	0.000000
1983	1	26	0	0	0.000000	-20.000000	0.000000
1983	1	27	0	0	0.000000	-21.370000	0.000000
1983	1	28	0	0	0.000000	-73.100000	0.000000
1983	1	29	0	0	0.000000	-20.000000	0.000000
1983	1	30	0	0	0.000000	-29.430000	0.000000
1983	1	31	0	0	0.000000	-158.430000	0.000000
1983	2	1	0	0	0.000000	-252.490000	0.000000
1983	2	2	0	0	0.000000	-20.000000	0.000000
1983	2	3	0	0	0.000000	-20.000000	0.000000
1983	2	4	0	0	0.000000	-20.000000	0.000000
1983	2	5	0	0	0.000000	-20.000000	0.000000
1983	2	6	0	0	0.000000	-20.000000	0.000000
1983	2	7	0	0	0.000000	-87.210000	0.000000
1983	2	8	0	0	0.000000	-20.000000	0.000000
1983	2	9	0	0	0.000000	-20.000000	0.000000
1983	2	10	0	0	0.000000	-85.190000	0.000000
1983	2	11	0	0	0.000000	-26.740000	0.000000
1983	2	12	0	0	0.000000	-20.000000	0.000000
1983	2	13	0	0	0.000000	-20.000000	0.000000
1983	2	14	0	0	0.000000	-20.000000	0.000000
1983	2	15	0	0	0.000000	-20.000000	0.000000
1983	2	16	0	0	0.000000	-20.000000	0.000000
1983	2	17	0	0	0.000000	-72.430000	0.000000
1983	2	18	0	0	0.000000	-20.000000	0.000000
1983	2	19	0	0	0.000000	-20.000000	0.000000
1983	2	20	0	0	0.000000	-91.910000	0.000000
1983	2	21	0	0	0.000000	-126.850000	0.000000
1983	2	22	0	0	0.000000	-20.000000	0.000000
1983	2	23	0	0	0.000000	-20.000000	0.000000
1983	2	24	0	0	0.000000	-180.600000	0.000000
1983	2	25	0	0	0.000000	-20.000000	0.000000
1983	2	26	0	0	0.000000	-72.430000	0.000000
1983	2	27	0	0	0.000000	-20.000000	0.000000
1983	2	28	0	0	0.000000	-26.740000	0.000000
1983	3	1	0	0	0.000000	-20.000000	0.000000
1983	3	2	0	0	0.000000	-20.000000	0.000000
1983	3	3	0	0	0.000000	-20.000000	0.000000
1983	3	4	0	0	0.000000	-81.160000	0.000000
1983	3	5	0	0	0.000000	-20.000000	0.000000
1983	3	6	0	0	0.000000	-20.000000	0.000000
1983	3	7	0	0	0.000000	-20.000000	0.000000
1983	3	8	0	0	0.000000	-20.000000	0.000000
1983	3	9	0	0	0.000000	-32.790000	0.000000
1983	3	10	0	0	0.000000	-73.100000	0.000000
1983	3	11	0	0	0.000000	-20.000000	0.000000
1983	3	12	0	0	0.000000	-94.600000	0.000000
1983	3	13	0	0	0.000000	-429.190000	0.000000
1983	3	14	0	0	0.000000	-353.270000	0.000000
1983	3	15	0	0	0.000000	-20.000000	0.000000
1983	3	16	0	0	0.000000	-20.000000	0.000000
1983	3	17	0	0	0.000000	-81.830000	0.000000
1983	3	18	0	0	0.000000	-63.690000	0.000000
1983	3	19	0	0	0.000000	-121.470000	0.000000
1983	3	20	0	0	0.000000	-438.590000	0.000000
1983	3	21	0	0	0.000000	-119.460000	0.000000
1983	3	22	0	0	0.000000	-20.000000	0.000000
1983	3	23	0	0	0.000000	-200.750000	0.000000
1983	3	24	0	0	0.000000	-20.000000	0.000000
1983	3	25	0	0	0.000000	-42.860000	0.000000
1983	3	26	0	0	0.000000	-20.000000	0.000000
1983	3	27	0	0	0.000000	-20.000000	0.000000
1983	3	28	0	0	0.000000	-20.000000	0.000000
1983	3	29	0	0	0.000000	-100.640000	0.000000
1983	3	30	0	0	0.000000	-130.210000	0.000000
1983	3	31	0	0	0.000000	-20.000000	0.000000
1983	4	1	0	0	0.000000	-20.000000	0.000000
1983	4	2	0	0	0.000000	-46.220000	0.000000
1983	4	3	0	0	0.000000	-20.000000	0.000000
1983	4	4	0	0	0.000000	-20.000000	0.000000
1983	4	5	0	0	0.000000	-20.000000	0.000000

1983	4	6	0	0	0.000000	-20.000000	0.000000
1983	4	7	0	0	0.000000	-65.710000	0.000000
1983	4	8	0	0	0.000000	-74.440000	0.000000
1983	4	9	0	0	0.000000	-210.160000	0.000000
1983	4	10	0	0	0.000000	-20.000000	0.000000
1983	4	11	0	0	0.000000	-20.000000	0.000000
1983	4	12	0	0	0.000000	-20.000000	0.000000
1983	4	13	0	0	0.000000	-20.000000	0.000000
1983	4	14	0	0	0.000000	-22.710000	0.000000
1983	4	15	0	0	0.000000	-20.000000	0.000000
1983	4	16	0	0	0.000000	-20.000000	0.000000
1983	4	17	0	0	0.000000	-20.000000	0.000000
1983	4	18	0	0	0.000000	-55.630000	0.000000
1983	4	19	0	0	0.000000	-20.000000	0.000000
1983	4	20	0	0	0.000000	-20.000000	0.000000
1983	4	21	0	0	0.000000	-2604.680000	0.000000
1983	4	22	0	0	0.000000	-1153.450000	0.000000
1983	4	23	0	0	0.000000	-1019.080000	0.000000
1983	4	24	0	0	0.000000	-810.800000	0.000000
1983	4	25	0	0	0.000000	-290.110000	0.000000
1983	4	26	0	0	0.000000	-20.000000	0.000000
1983	4	27	0	0	0.000000	-20.000000	0.000000
1983	4	28	0	0	0.000000	-20.000000	0.000000
1983	4	29	0	0	0.000000	-314.970000	0.000000
1983	4	30	0	0	0.000000	-56.300000	0.000000
1983	5	1	0	0	0.000000	-65.040000	0.000000
1983	5	2	0	0	0.000000	-158.430000	0.000000
1983	5	3	0	0	0.000000	-20.000000	0.000000
1983	5	4	0	0	0.000000	-107.360000	0.000000
1983	5	5	0	0	0.000000	-357.300000	0.000000
1983	5	6	0	0	0.000000	-453.370000	0.000000
1983	5	7	0	0	0.000000	-20.000000	0.000000
1983	5	8	0	0	0.000000	-20.000000	0.000000
1983	5	9	0	0	0.000000	-271.970000	0.000000
1983	5	10	0	0	0.000000	-402.980000	0.000000
1983	5	11	0	0	0.000000	-225.610000	0.000000
1983	5	12	0	0	0.000000	-220.240000	0.000000
1983	5	13	0	0	0.000000	-1052.670000	0.000000
1983	5	14	0	0	0.000000	-958.610000	0.000000
1983	5	15	0	0	0.000000	-547.430000	0.000000
1983	5	16	0	0	0.000000	-120.800000	0.000000
1983	5	17	0	0	0.000000	-106.690000	0.000000
1983	5	18	0	0	0.000000	-247.110000	0.000000
1983	5	19	0	0	0.000000	-972.050000	0.000000
1983	5	20	0	0	0.000000	-1032.520000	0.000000
1983	5	21	0	0	0.000000	-622.680000	0.000000
1983	5	22	0	0	0.000000	-300.190000	0.000000
1983	5	23	0	0	0.000000	-1455.790000	0.000000
1983	5	24	0	0	0.000000	-703.310000	0.000000
1983	5	25	0	0	0.000000	-884.710000	0.000000
1983	5	26	0	0	0.000000	-656.280000	0.000000
1983	5	27	0	0	0.000000	-1039.240000	0.000000
1983	5	28	0	0	0.000000	-355.280000	0.000000
1983	5	29	0	0	0.000000	-241.060000	0.000000
1983	5	30	0	0	0.000000	-325.050000	0.000000
1983	5	31	0	0	0.000000	-602.530000	0.000000
1983	6	1	0	0	0.000000	-20.000000	0.000000
1983	6	2	0	0	0.000000	-20.000000	0.000000
1983	6	3	0	0	0.000000	-353.270000	0.000000
1983	6	4	0	0	0.000000	-170.520000	0.000000
1983	6	5	0	0	0.000000	-39.510000	0.000000
1983	6	6	0	0	0.000000	-196.720000	0.000000
1983	6	7	0	0	0.000000	-151.030000	0.000000
1983	6	8	0	0	0.000000	-171.190000	0.000000
1983	6	9	0	0	0.000000	-211.500000	0.000000
1983	6	10	0	0	0.000000	-237.700000	0.000000
1983	6	11	0	0	0.000000	-172.530000	0.000000
1983	6	12	0	0	0.000000	-29.430000	0.000000
1983	6	13	0	0	0.000000	-225.610000	0.000000
1983	6	14	0	0	0.000000	-198.070000	0.000000
1983	6	15	0	0	0.000000	-294.810000	0.000000
1983	6	16	0	0	0.000000	-60.330000	0.000000
1983	6	17	0	0	0.000000	-255.850000	0.000000
1983	6	18	0	0	0.000000	-357.300000	0.000000
1983	6	19	0	0	0.000000	-330.420000	0.000000
1983	6	20	0	0	0.000000	-399.620000	0.000000
1983	6	21	0	0	0.000000	-20.000000	0.000000
1983	6	22	0	0	0.000000	-58.990000	0.000000
1983	6	23	0	0	0.000000	-20.000000	0.000000
1983	6	24	0	0	0.000000	-310.270000	0.000000
1983	6	25	0	0	0.000000	-44.880000	0.000000
1983	6	26	0	0	0.000000	-67.050000	0.000000
1983	6	27	0	0	0.000000	-110.720000	0.000000
1983	6	28	0	0	0.000000	-219.560000	0.000000
1983	6	29	0	0	0.000000	-206.130000	0.000000
1983	6	30	0	0	0.000000	-196.720000	0.000000
1983	7	1	0	0	1	-20.000000	0.000000
1983	7	2	0	0	0.000000	-20.000000	0.000000
1983	7	3	0	0	0.000000	-20.000000	0.000000
1983	7	4	0	0	0.000000	-20.000000	0.000000
1983	7	5	0	0	0.000000	-478.230000	0.000000
1983	7	6	0	0	0.000000	-400.300000	0.000000
1983	7	7	0	0	0.000000	-437.250000	0.000000
1983	7	8	0	0	0.000000	-419.780000	0.000000
1983	7	9	0	0	0.000000	-79.820000	0.000000
1983	7	10	0	0	0.000000	-274.660000	0.000000
1983	7	11	0	0	0.000000	-20.000000	0.000000
1983	7	12	0	0	0.000000	-20.000000	0.000000
1983	7	13	0	0	0.000000	-20.000000	0.000000
1983	7	14	0	0	0.000000	-20.000000	0.000000
1983	7	15	0	0	0.000000	-20.000000	0.000000
1983	7	16	0	0	0.000000	-20.000000	0.000000
1983	7	17	0	0	0.000000	-40.180000	0.000000
1983	7	18	0	0	0.000000	-121.470000	0.000000
1983	7	19	0	0	0.000000	-47.570000	0.000000
1983	7	20	0	0	0.000000	-20.000000	0.000000
1983	7	21	0	0	0.000000	-209.490000	0.000000
1983	7	22	0	0	0.000000	-173.880000	0.000000
1983	7	23	0	0	0.000000	-20.000000	0.000000
1983	7	24	0	0	0.000000	-20.000000	0.000000
1983	7	25	0	0	0.000000	-20.000000	0.000000
1983	7	26	0	0	0.000000	-412.390000	0.000000
1983	7	27	0	0	0.000000	-20.000000	0.000000
1983	7	28	0	0	0.000000	-46.900000	0.000000
1983	7	29	0	0	0.000000	-20.000000	0.000000
1983	7	30	0	0	0.000000	-20.000000	0.000000
1983	7	31	0	0	0.000000	-20.000000	0.000000
1983	8	1	0	0	0.000000	-50.930000	0.000000
1983	8	2	0	0	0.000000	-20.000000	0.000000
1983	8	3	0	0	0.000000	-20.000000	0.000000
1983	8	4	0	0	0.000000	-20.000000	0.000000
1983	8	5	0	0	0.000000	-320.340000	0.000000
1983	8	6	0	0	0.000000	-20.000000	0.000000
1983	8	7	0	0	0.000000	-20.000000	0.000000
1983	8	8	0	0	0.000000	-172.530000	0.000000
1983	8	9	0	0	0.000000	-250.470000	0.000000
1983	8	10	0	0	0.000000	-275.330000	0.000000
1983	8	11	0	0	0.000000	-20.000000	0.000000
1983	8	12	0	0	0.000000	-89.900000	0.000000
1983	8	13	0	0	0.000000	-192.690000	0.000000
1983	8	14	0	0	0.000000	-73.770000	0.000000
1983	8	15	0	0	0.000000	-82.500000	0.000000
1983	8	16	0	0	0.000000	-81.160000	0.000000
1983	8	17	0	0	0.000000	-200.750000	0.000000
1983	8	18	0	0	0.000000	-111.390000	0.000000
1983	8	19	0	0	0.000000	-20.000000	0.000000
1983	8	20	0	0	0.000000	-20.000000	0.000000
1983	8	21	0	0	0.000000	-114.080000	0.000000
1983	8	22	0	0	0.000000	-315.640000	0.000000
1983	8	23	0	0	0.000000	-126.850000	0.000000

1983	8	24	0	0	0.000000	-20.000000	0.000000
1983	8	25	0	0	0.000000	-20.000000	0.000000
1983	8	26	0	0	0.000000	-20.000000	0.000000
1983	8	27	0	0	0.000000	-43.540000	0.000000
1983	8	28	0	0	0.000000	-89.900000	0.000000
1983	8	29	0	0	0.000000	-265.920000	0.000000
1983	8	30	0	0	0.000000	-176.570000	0.000000
1983	8	31	0	0	0.000000	-280.030000	0.000000
1983	9	1	0	0	0.000000	-30.770000	0.000000
1983	9	2	0	0	0.000000	-20.000000	0.000000
1983	9	3	0	0	0.000000	-20.000000	0.000000
1983	9	4	0	0	0.000000	-20.000000	0.000000
1983	9	5	0	0	0.000000	-79.150000	0.000000
1983	9	6	0	0	0.000000	-234.350000	0.000000
1983	9	7	0	0	0.000000	-241.060000	0.000000
1983	9	8	0	0	0.000000	-20.000000	0.000000
1983	9	9	0	0	0.000000	-20.000000	0.000000
1983	9	10	0	0	0.000000	-20.000000	0.000000
1983	9	11	0	0	0.000000	-20.000000	0.000000
1983	9	12	0	0	0.000000	-20.000000	0.000000
1983	9	13	0	0	0.000000	-192.690000	0.000000
1983	9	14	0	0	0.000000	-386.190000	0.000000
1983	9	15	0	0	0.000000	-20.000000	0.000000
1983	9	16	0	0	0.000000	-177.240000	0.000000
1983	9	17	0	0	0.000000	-508.470000	0.000000
1983	9	18	0	0	0.000000	-104.000000	0.000000
1983	9	19	0	0	0.000000	-335.800000	0.000000
1983	9	20	0	0	0.000000	-523.920000	0.000000
1983	9	21	0	0	0.000000	-414.400000	0.000000
1983	9	22	0	0	0.000000	-69.740000	0.000000
1983	9	23	0	0	0.000000	-20.000000	0.000000
1983	9	24	0	0	0.000000	-20.000000	0.000000
1983	9	25	0	0	0.000000	-20.000000	0.000000
1983	9	26	0	0	0.000000	-20.000000	0.000000
1983	9	27	0	0	0.000000	-264.580000	0.000000
1983	9	28	0	0	0.000000	-508.470000	0.000000
1983	9	29	0	0	0.000000	-224.270000	0.000000
1983	9	30	0	0	0.000000	-20.000000	0.000000
1983	10	1	0	0	0.000000	-20.000000	0.000000
1983	10	2	0	0	0.000000	-20.000000	0.000000
1983	10	3	0	0	0.000000	-20.000000	0.000000
1983	10	4	0	0	0.000000	-20.000000	0.000000
1983	10	5	0	0	0.000000	-30.100000	0.000000
1983	10	6	0	0	0.000000	-20.000000	0.000000
1983	10	7	0	0	0.000000	-20.000000	0.000000
1983	10	8	0	0	0.000000	-20.000000	0.000000
1983	10	9	0	0	0.000000	-20.000000	0.000000
1983	10	10	0	0	0.000000	-20.000000	0.000000
1983	10	11	0	0	0.000000	-96.610000	0.000000
1983	10	12	0	0	0.000000	-441.950000	0.000000
1983	10	13	0	0	0.000000	-23.380000	0.000000
1983	10	14	0	0	0.000000	-20.000000	0.000000
1983	10	15	0	0	0.000000	-20.000000	0.000000
1983	10	16	0	0	0.000000	-95.940000	0.000000
1983	10	17	0	0	0.000000	-484.280000	0.000000
1983	10	18	0	0	0.000000	-636.120000	0.000000
1983	10	19	0	0	0.000000	-830.960000	0.000000
1983	10	20	0	0	0.000000	-417.090000	0.000000
1983	10	21	0	0	0.000000	-689.870000	0.000000
1983	10	22	0	0	0.000000	-303.550000	0.000000
1983	10	23	0	0	0.000000	-925.020000	0.000000
1983	10	24	0	0	0.000000	-676.430000	0.000000
1983	10	25	0	0	0.000000	-388.200000	0.000000
1983	10	26	0	0	0.000000	-536.010000	0.000000
1983	10	27	0	0	0.000000	-249.130000	0.000000
1983	10	28	0	0	0.000000	-434.560000	0.000000
1983	10	29	0	0	0.000000	-116.770000	0.000000
1983	10	30	0	0	0.000000	-20.000000	0.000000
1983	10	31	0	0	0.000000	-72.430000	0.000000
1983	11	1	0	0	0.000000	-540.710000	0.000000
1983	11	2	0	0	0.000000	-496.370000	0.000000
1983	11	3	0	0	0.000000	-65.710000	0.000000
1983	11	4	0	0	0.000000	-556.840000	0.000000
1983	11	5	0	0	0.000000	-222.250000	0.000000
1983	11	6	0	0	0.000000	-615.960000	0.000000
1983	11	7	0	0	0.000000	-528.620000	0.000000
1983	11	8	0	0	0.000000	-595.810000	0.000000
1983	11	9	0	0	0.000000	-622.680000	0.000000
1983	11	10	0	0	0.000000	-489.650000	0.000000
1983	11	11	0	0	0.000000	-736.900000	0.000000
1983	11	12	0	0	0.000000	-783.930000	0.000000
1983	11	13	0	0	0.000000	-307.580000	0.000000
1983	11	14	0	0	0.000000	-554.820000	0.000000
1983	11	15	0	0	0.000000	-118.110000	0.000000
1983	11	16	0	0	0.000000	-349.230000	0.000000
1983	11	17	0	0	0.000000	-425.830000	0.000000
1983	11	18	0	0	0.000000	-391.560000	0.000000
1983	11	19	0	0	0.000000	-390.220000	0.000000
1983	11	20	0	0	0.000000	-98.630000	0.000000
1983	11	21	0	0	0.000000	-129.540000	0.000000
1983	11	22	0	0	0.000000	-245.770000	0.000000
1983	11	23	0	0	0.000000	-20.000000	0.000000
1983	11	24	0	0	0.000000	-70.410000	0.000000
1983	11	25	0	0	0.000000	-20.000000	0.000000
1983	11	26	0	0	0.000000	-20.000000	0.000000
1983	11	27	0	0	0.000000	-115.430000	0.000000
1983	11	28	0	0	0.000000	-281.380000	0.000000
1983	11	29	0	0	0.000000	-20.000000	0.000000
1983	11	30	0	0	0.000000	-85.190000	0.000000
1983	12	1	0	0	0.000000	-20.000000	0.000000
1983	12	2	0	0	0.000000	-420.450000	0.000000
1983	12	3	0	0	0.000000	-194.030000	0.000000
1983	12	4	0	0	0.000000	-76.460000	0.000000
1983	12	5	0	0	0.000000	-32.790000	0.000000
1983	12	6	0	0	0.000000	-54.960000	0.000000
1983	12	7	0	0	0.000000	-20.000000	0.000000
1983	12	8	0	0	0.000000	-20.000000	0.000000
1983	12	9	0	0	0.000000	-20.000000	0.000000
1983	12	10	0	0	0.000000	-198.740000	0.000000
1983	12	11	0	0	0.000000	-20.000000	0.000000
1983	12	12	0	0	0.000000	-198.740000	0.000000
1983	12	13	0	0	0.000000	-20.000000	0.000000
1983	12	14	0	0	0.000000	-20.000000	0.000000
1983	12	15	0	0	0.000000	-20.000000	0.000000
1983	12	16	0	0	0.000000	-20.000000	0.000000
1983	12	17	0	0	0.000000	-20.000000	0.000000
1983	12	18	0	0	0.000000	-20.000000	0.000000
1983	12	19	0	0	0.000000	-138.270000	0.000000
1983	12	20	0	0	0.000000	-448.670000	0.000000
1983	12	21	0	0	0.000000	-169.850000	0.000000
1983	12	22	0	0	0.000000	-20.000000	0.000000
1983	12	23	0	0	0.000000	-20.000000	0.000000
1983	12	24	0	0	0.000000	-20.000000	0.000000
1983	12	25	0	0	0.000000	-20.000000	0.000000
1983	12	26	0	0	0.000000	-20.000000	0.000000
1983	12	27	0	0	0.000000	-20.000000	0.000000
1983	12	28	0	0	0.000000	-20.000000	0.000000
1983	12	29	0	0	0.000000	-20.000000	0.000000
1983	12	30	0	0	0.000000	-20.000000	0.000000
1983	12	31	0	0	0.000000	-20.000000	0.000000
1984	1	1	0	0	0.000000	-20.000000	0.000000
1984	1	2	0	0	0.000000	-20.000000	0.000000
1984	1	3	0	0	0.000000	-20.000000	0.000000
1984	1	4	0	0	0.000000	-20.000000	0.000000
1984	1	5	0	0	0.000000	-275.330000	0.000000
1984	1	6	0	0	0.000000	-20.000000	0.000000
1984	1	7	0	0	0.000000	-20.000000	0.000000
1984	1	8	0	0	0.000000	-20.000000	0.000000
1984	1	9	0	0	0.000000	-20.000000	0.000000
1984	1	10	0	0	0.000000	-268.610000	0.000000

1984	1	11	0	0	0.000000	-314.970000	0.000000
1984	1	12	0	0	0.000000	-161.110000	0.000000
1984	1	13	0	0	0.000000	-26.070000	0.000000
1984	1	14	0	0	0.000000	-20.000000	0.000000
1984	1	15	0	0	0.000000	-20.000000	0.000000
1984	1	16	0	0	0.000000	-20.000000	0.000000
1984	1	17	0	0	0.000000	-20.000000	0.000000
1984	1	18	0	0	0.000000	-20.000000	0.000000
1984	1	19	0	0	0.000000	-20.000000	0.000000
1984	1	20	0	0	0.000000	-49.580000	0.000000
1984	1	21	0	0	0.000000	-20.000000	0.000000
1984	1	22	0	0	0.000000	-81.160000	0.000000
1984	1	23	0	0	0.000000	-58.320000	0.000000
1984	1	24	0	0	0.000000	-20.000000	0.000000
1984	1	25	0	0	0.000000	-161.780000	0.000000
1984	1	26	0	0	0.000000	-115.430000	0.000000
1984	1	27	0	0	0.000000	-278.020000	0.000000
1984	1	28	0	0	0.000000	-20.000000	0.000000
1984	1	29	0	0	0.000000	-20.000000	0.000000
1984	1	30	0	0	0.000000	-319.000000	0.000000
1984	1	31	0	0	0.000000	-396.940000	0.000000
1984	2	1	0	0	0.000000	-451.360000	0.000000
1984	2	2	0	0	0.000000	-61.010000	0.000000
1984	2	3	0	0	0.000000	-20.000000	0.000000
1984	2	4	0	0	0.000000	-21.370000	0.000000
1984	2	5	0	0	0.000000	-20.000000	0.000000
1984	2	6	0	0	0.000000	-20.000000	0.000000
1984	2	7	0	0	0.000000	-20.000000	0.000000
1984	2	8	0	0	0.000000	-20.000000	0.000000
1984	2	9	0	0	0.000000	-20.000000	0.000000
1984	2	10	0	0	0.000000	-50.260000	0.000000
1984	2	11	0	0	0.000000	-20.000000	0.000000
1984	2	12	0	0	0.000000	-20.000000	0.000000
1984	2	13	0	0	0.000000	-20.000000	0.000000
1984	2	14	0	0	0.000000	-357.970000	0.000000
1984	2	15	0	0	0.000000	-20.000000	0.000000
1984	2	16	0	0	0.000000	-157.080000	0.000000
1984	2	17	0	0	0.000000	-216.210000	0.000000
1984	2	18	0	0	0.000000	-20.000000	0.000000
1984	2	19	0	0	0.000000	-20.000000	0.000000
1984	2	20	0	0	0.000000	-88.550000	0.000000
1984	2	21	0	0	0.000000	-279.360000	0.000000
1984	2	22	0	0	0.000000	-275.330000	0.000000
1984	2	23	0	0	0.000000	-151.030000	0.000000
1984	2	24	0	0	0.000000	-109.380000	0.000000
1984	2	25	0	0	0.000000	-83.850000	0.000000
1984	2	26	0	0	0.000000	-48.910000	0.000000
1984	2	27	0	0	0.000000	-235.690000	0.000000
1984	2	28	0	0	0.000000	-85.860000	0.000000
1984	2	29	0	0	0.000000	-20.000000	0.000000
1984	3	1	0	0	0.000000	-20.000000	0.000000
1984	3	2	0	0	0.000000	-130.880000	0.000000
1984	3	3	0	0	0.000000	-20.000000	0.000000
1984	3	4	0	0	0.000000	-20.000000	0.000000
1984	3	5	0	0	0.000000	-56.970000	0.000000
1984	3	6	0	0	0.000000	-20.000000	0.000000
1984	3	7	0	0	0.000000	-218.220000	0.000000
1984	3	8	0	0	0.000000	-20.000000	0.000000
1984	3	9	0	0	0.000000	-346.550000	0.000000
1984	3	10	0	0	0.000000	-67.050000	0.000000
1984	3	11	0	0	0.000000	-83.850000	0.000000
1984	3	12	0	0	0.000000	-488.980000	0.000000
1984	3	13	0	0	0.000000	-118.110000	0.000000
1984	3	14	0	0	0.000000	-20.000000	0.000000
1984	3	15	0	0	0.000000	-20.000000	0.000000
1984	3	16	0	0	0.000000	-20.000000	0.000000
1984	3	17	0	0	0.000000	-20.000000	0.000000
1984	3	18	0	0	0.000000	-20.000000	0.000000
1984	3	19	0	0	0.000000	-20.000000	0.000000
1984	3	20	0	0	0.000000	-20.000000	0.000000
1984	3	21	0	0	0.000000	-20.000000	0.000000
1984	3	22	0	0	0.000000	-20.000000	0.000000
1984	3	23	0	0	0.000000	-20.000000	0.000000
1984	3	24	0	0	0.000000	-20.000000	0.000000
1984	3	25	0	0	0.000000	-20.000000	0.000000
1984	3	26	0	0	0.000000	-20.000000	0.000000
1984	3	27	0	0	0.000000	-83.180000	0.000000
1984	3	28	0	0	0.000000	-20.000000	0.000000
1984	3	29	0	0	0.000000	-247.780000	0.000000
1984	3	30	0	0	0.000000	-20.000000	0.000000
1984	3	31	0	0	0.000000	-20.000000	0.000000
1984	4	1	0	0	0.000000	-20.000000	0.000000
1984	4	2	0	0	0.000000	-20.000000	0.000000
1984	4	3	0	0	0.000000	-241.740000	0.000000
1984	4	4	0	0	0.000000	-20.000000	0.000000
1984	4	5	0	0	0.000000	-20.000000	0.000000
1984	4	6	0	0	0.000000	-202.100000	0.000000
1984	4	7	0	0	0.000000	-20.000000	0.000000
1984	4	8	0	0	0.000000	-20.000000	0.000000
1984	4	9	0	0	0.000000	-20.000000	0.000000
1984	4	10	0	0	0.000000	-216.210000	0.000000
1984	4	11	0	0	0.000000	-250.470000	0.000000
1984	4	12	0	0	0.000000	-20.000000	0.000000
1984	4	13	0	0	0.000000	-351.250000	0.000000
1984	4	14	0	0	0.000000	-198.740000	0.000000
1984	4	15	0	0	0.000000	-90.570000	0.000000
1984	4	16	0	0	0.000000	-51.600000	0.000000
1984	4	17	0	0	0.000000	-20.000000	0.000000
1984	4	18	0	0	0.000000	-20.000000	0.000000
1984	4	19	0	0	0.000000	-20.000000	0.000000
1984	4	20	0	0	0.000000	-20.000000	0.000000
1984	4	21	0	0	0.000000	-20.000000	0.000000
1984	4	22	0	0	0.000000	-183.280000	0.000000
1984	4	23	0	0	0.000000	-222.920000	0.000000
1984	4	24	0	0	0.000000	-20.000000	0.000000
1984	4	25	0	0	0.000000	-20.000000	0.000000
1984	4	26	0	0	0.000000	-20.000000	0.000000
1984	4	27	0	0	0.000000	-20.000000	0.000000
1984	4	28	0	0	0.000000	-20.000000	0.000000
1984	4	29	0	0	0.000000	-20.000000	0.000000
1984	4	30	0	0	0.000000	-20.000000	0.000000
1984	5	1	0	0	0.000000	-20.000000	0.000000
1984	5	2	0	0	0.000000	-20.000000	0.000000
1984	5	3	0	0	0.000000	-20.000000	0.000000
1984	5	4	0	0	0.000000	-20.000000	0.000000
1984	5	5	0	0	0.000000	-20.000000	0.000000
1984	5	6	0	0	0.000000	-20.000000	0.000000
1984	5	7	0	0	0.000000	-37.490000	0.000000
1984	5	8	0	0	0.000000	-20.000000	0.000000
1984	5	9	0	0	0.000000	-20.000000	0.000000
1984	5	10	0	0	0.000000	-20.000000	0.000000
1984	5	11	0	0	0.000000	-38.830000	0.000000
1984	5	12	0	0	0.000000	-20.000000	0.000000
1984	5	13	0	0	0.000000	-20.000000	0.000000
1984	5	14	0	0	0.000000	-20.000000	0.000000
1984	5	15	0	0	0.000000	-20.000000	0.000000
1984	5	16	0	0	0.000000	-20.000000	0.000000
1984	5	17	0	0	0.000000	-120.800000	0.000000
1984	5	18	0	0	0.000000	-190.000000	0.000000
1984	5	19	0	0	0.000000	-497.720000	0.000000
1984	5	20	0	0	0.000000	-41.520000	0.000000
1984	5	21	0	0	0.000000	-233.000000	0.000000
1984	5	22	0	0	0.000000	-114.080000	0.000000
1984	5	23	0	0	0.000000	-475.540000	0.000000
1984	5	24	0	0	0.000000	-295.490000	0.000000
1984	5	25	0	0	0.000000	-418.440000	0.000000
1984	5	26	0	0	0.000000	-67.050000	0.000000
1984	5	27	0	0	0.000000	-20.000000	0.000000
1984	5	28	0	0	0.000000	-28.760000	0.000000
1984	5	29	0	0	0.000000	-327.060000	0.000000

1984	5	30	0	0	0.000000	-757.050000	0.000000
1984	5	31	0	0	0.000000	-393.580000	0.000000
1984	6	1	0	0	0.000000	-245.100000	0.000000
1984	6	2	0	0	0.000000	-61.010000	0.000000
1984	6	3	0	0	0.000000	-20.000000	0.000000
1984	6	4	0	0	0.000000	-43.540000	0.000000
1984	6	5	0	0	0.000000	-20.000000	0.000000
1984	6	6	0	0	0.000000	-369.390000	0.000000
1984	6	7	0	0	0.000000	-844.400000	0.000000
1984	6	8	0	0	0.000000	-368.050000	0.000000
1984	6	9	0	0	0.000000	-79.820000	0.000000
1984	6	10	0	0	0.000000	-95.940000	0.000000
1984	6	11	0	0	0.000000	-55.630000	0.000000
1984	6	12	0	0	0.000000	-176.570000	0.000000
1984	6	13	0	0	0.000000	-45.550000	0.000000
1984	6	14	0	0	0.000000	-323.700000	0.000000
1984	6	15	0	0	0.000000	-239.720000	0.000000
1984	6	16	0	0	0.000000	-20.000000	0.000000
1984	6	17	0	0	0.000000	-20.000000	0.000000
1984	6	18	0	0	0.000000	-79.150000	0.000000
1984	6	19	0	0	0.000000	-287.420000	0.000000
1984	6	20	0	0	0.000000	-284.060000	0.000000
1984	6	21	0	0	0.000000	-25.400000	0.000000
1984	6	22	0	0	0.000000	-222.250000	0.000000
1984	6	23	0	0	0.000000	-126.850000	0.000000
1984	6	24	0	0	0.000000	-20.000000	0.000000
1984	6	25	0	0	0.000000	-582.370000	0.000000
1984	6	26	0	0	0.000000	-797.370000	0.000000
1984	6	27	0	0	0.000000	-248.450000	0.000000
1984	6	28	0	0	0.000000	-20.000000	0.000000
1984	6	29	0	0	0.000000	-169.850000	0.000000
1984	6	30	0	0	0.000000	-83.180000	0.000000
1984	7	1	0	0	0.000000	-20.000000	0.000000
1984	7	2	0	0	0.000000	-153.050000	0.000000
1984	7	3	0	0	0.000000	-136.250000	0.000000
1984	7	4	0	0	0.000000	-20.000000	0.000000
1984	7	5	0	0	0.000000	-20.000000	0.000000
1984	7	6	0	0	0.000000	-20.000000	0.000000
1984	7	7	0	0	0.000000	-20.000000	0.000000
1984	7	8	0	0	0.000000	-20.000000	0.000000
1984	7	9	0	0	0.000000	-20.000000	0.000000
1984	7	10	0	0	0.000000	-20.000000	0.000000
1984	7	11	0	0	0.000000	-20.000000	0.000000
1984	7	12	0	0	0.000000	-126.180000	0.000000
1984	7	13	0	0	0.000000	-101.990000	0.000000
1984	7	14	0	0	0.000000	-20.000000	0.000000
1984	7	15	0	0	0.000000	-20.000000	0.000000
1984	7	16	0	0	0.000000	-110.720000	0.000000
1984	7	17	0	0	0.000000	-20.000000	0.000000
1984	7	18	0	0	0.000000	-42.190000	0.000000
1984	7	19	0	0	0.000000	-157.080000	0.000000
1984	7	20	0	0	0.000000	-106.020000	0.000000
1984	7	21	0	0	0.000000	-20.000000	0.000000
1984	7	22	0	0	0.000000	-20.000000	0.000000
1984	7	23	0	0	0.000000	-20.000000	0.000000
1984	7	24	0	0	0.000000	-96.610000	0.000000
1984	7	25	0	0	0.000000	-20.000000	0.000000
1984	7	26	0	0	0.000000	-165.820000	0.000000
1984	7	27	0	0	0.000000	-20.000000	0.000000
1984	7	28	0	0	0.000000	-20.000000	0.000000
1984	7	29	0	0	0.000000	-20.000000	0.000000
1984	7	30	0	0	0.000000	-154.390000	0.000000
1984	7	31	0	0	0.000000	-81.160000	0.000000
1984	8	1	0	0	0.000000	-20.000000	0.000000
1984	8	2	0	0	0.000000	-232.330000	0.000000
1984	8	3	0	0	0.000000	-287.420000	0.000000
1984	8	4	0	0	0.000000	-20.000000	0.000000
1984	8	5	0	0	0.000000	-20.000000	0.000000
1984	8	6	0	0	0.000000	-20.000000	0.000000
1984	8	7	0	0	0.000000	-20.000000	0.000000
1984	8	8	0	0	0.000000	-32.790000	0.000000
1984	8	9	0	0	0.000000	-20.000000	0.000000
1984	8	10	0	0	0.000000	-20.000000	0.000000
1984	8	11	0	0	0.000000	-20.000000	0.000000
1984	8	12	0	0	0.000000	-20.000000	0.000000
1984	8	13	0	0	0.000000	-159.770000	0.000000
1984	8	14	0	0	0.000000	-268.610000	0.000000
1984	8	15	0	0	0.000000	-20.000000	0.000000
1984	8	16	0	0	0.000000	-193.360000	0.000000
1984	8	17	0	0	0.000000	-20.000000	0.000000
1984	8	18	0	0	0.000000	-228.970000	0.000000
1984	8	19	0	0	0.000000	-20.000000	0.000000
1984	8	20	0	0	0.000000	-300.190000	0.000000
1984	8	21	0	0	0.000000	-20.000000	0.000000
1984	8	22	0	0	0.000000	-20.000000	0.000000
1984	8	23	0	0	0.000000	-20.000000	0.000000
1984	8	24	0	0	0.000000	-295.490000	0.000000
1984	8	25	0	0	0.000000	-35.470000	0.000000
1984	8	26	0	0	0.000000	-20.000000	0.000000
1984	8	27	0	0	0.000000	-20.000000	0.000000
1984	8	28	0	0	0.000000	-20.000000	0.000000
1984	8	29	0	0	0.000000	-48.240000	0.000000
1984	8	30	0	0	0.000000	-130.210000	0.000000
1984	8	31	0	0	0.000000	-116.100000	0.000000
1984	9	1	0	0	0.000000	-20.000000	0.000000
1984	9	2	0	0	0.000000	-20.000000	0.000000
1984	9	3	0	0	0.000000	-544.750000	0.000000
1984	9	4	0	0	0.000000	-689.870000	0.000000
1984	9	5	0	0	0.000000	-468.830000	0.000000
1984	9	6	0	0	0.000000	-394.250000	0.000000
1984	9	7	0	0	0.000000	-60.330000	0.000000
1984	9	8	0	0	0.000000	-20.000000	0.000000
1984	9	9	0	0	0.000000	-20.000000	0.000000
1984	9	10	0	0	0.000000	-112.070000	0.000000
1984	9	11	0	0	0.000000	-380.140000	0.000000
1984	9	12	0	0	0.000000	-514.510000	0.000000
1984	9	13	0	0	0.000000	-1173.610000	0.000000
1984	9	14	0	0	0.000000	-1778.290000	0.000000
1984	9	15	0	0	0.000000	-817.520000	0.000000
1984	9	16	0	0	0.000000	-925.020000	0.000000
1984	9	17	0	0	0.000000	-1119.860000	0.000000
1984	9	18	0	0	0.000000	-1442.350000	0.000000
1984	9	19	0	0	0.000000	-1522.980000	0.000000
1984	9	20	0	0	0.000000	-1140.020000	0.000000
1984	9	21	0	0	0.000000	-1126.580000	0.000000
1984	9	22	0	0	0.000000	-1099.700000	0.000000
1984	9	23	0	0	0.000000	-1072.830000	0.000000
1984	9	24	0	0	0.000000	-1025.800000	0.000000
1984	9	25	0	0	0.000000	-423.140000	0.000000
1984	9	26	0	0	0.000000	-257.860000	0.000000
1984	9	27	0	0	0.000000	-234.350000	0.000000
1984	9	28	0	0	0.000000	-183.280000	0.000000
1984	9	29	0	0	0.000000	-56.970000	0.000000
1984	9	30	0	0	0.000000	-49.580000	0.000000
1984	10	1	0	0	0.000000	-313.630000	0.000000
1984	10	2	0	0	0.000000	-314.300000	0.000000
1984	10	3	0	0	0.000000	-414.400000	0.000000
1984	10	4	0	0	0.000000	-398.950000	0.000000
1984	10	5	0	0	0.000000	-520.560000	0.000000
1984	10	6	0	0	0.000000	-689.870000	0.000000
1984	10	7	0	0	0.000000	-790.650000	0.000000
1984	10	8	0	0	0.000000	-448.000000	0.000000
1984	10	9	0	0	0.000000	-790.650000	0.000000
1984	10	10	0	0	0.000000	-589.090000	0.000000
1984	10	11	0	0	0.000000	-518.540000	0.000000
1984	10	12	0	0	0.000000	-777.210000	0.000000
1984	10	13	0	0	0.000000	-736.900000	0.000000
1984	10	14	0	0	0.000000	-24.050000	0.000000
1984	10	15	0	0	0.000000	-154.390000	0.000000
1984	10	16	0	0	0.000000	-183.280000	0.000000

1984	10	17	0	0	0.000000	-426.500000	0.000000
1984	10	18	0	0	0.000000	-107.360000	0.000000
1984	10	19	0	0	0.000000	-139.610000	0.000000
1984	10	20	0	0	0.000000	-985.490000	0.000000
1984	10	21	0	0	0.000000	-1113.140000	0.000000
1984	10	22	0	0	0.000000	-656.280000	0.000000
1984	10	23	0	0	0.000000	-884.710000	0.000000
1984	10	24	0	0	0.000000	-938.460000	0.000000
1984	10	25	0	0	0.000000	-553.480000	0.000000
1984	10	26	0	0	0.000000	-415.750000	0.000000
1984	10	27	0	0	0.000000	-32.790000	0.000000
1984	10	28	0	0	0.000000	-20.000000	0.000000
1984	10	29	0	0	0.000000	-325.050000	0.000000
1984	10	30	0	0	0.000000	-396.260000	0.000000
1984	10	31	0	0	0.000000	-568.930000	0.000000
1984	11	1	0	0	0.000000	-558.180000	0.000000
1984	11	2	0	0	0.000000	-615.960000	0.000000
1984	11	3	0	0	0.000000	-757.050000	0.000000
1984	11	4	0	0	0.000000	-1509.540000	0.000000
1984	11	5	0	0	0.000000	-998.930000	0.000000
1984	11	6	0	0	0.000000	-1019.080000	0.000000
1984	11	7	0	0	0.000000	-1099.700000	0.000000
1984	11	8	0	0	0.000000	-1113.140000	0.000000
1984	11	9	0	0	0.000000	-1227.360000	0.000000
1984	11	10	0	0	0.000000	-1113.140000	0.000000
1984	11	11	0	0	0.000000	-1039.240000	0.000000
1984	11	12	0	0	0.000000	-1019.080000	0.000000
1984	11	13	0	0	0.000000	-1005.640000	0.000000
1984	11	14	0	0	0.000000	-550.790000	0.000000
1984	11	15	0	0	0.000000	-595.810000	0.000000
1984	11	16	0	0	0.000000	-544.750000	0.000000
1984	11	17	0	0	0.000000	-891.430000	0.000000
1984	11	18	0	0	0.000000	-985.490000	0.000000
1984	11	19	0	0	0.000000	-978.770000	0.000000
1984	11	20	0	0	0.000000	-122.820000	0.000000
1984	11	21	0	0	0.000000	-20.000000	0.000000
1984	11	22	0	0	0.000000	-20.000000	0.000000
1984	11	23	0	0	0.000000	-20.000000	0.000000
1984	11	24	0	0	0.000000	-20.000000	0.000000
1984	11	25	0	0	0.000000	-20.000000	0.000000
1984	11	26	0	0	0.000000	-116.770000	0.000000
1984	11	27	0	0	0.000000	-207.470000	0.000000
1984	11	28	0	0	0.000000	-226.960000	0.000000
1984	11	29	0	0	0.000000	-26.070000	0.000000
1984	11	30	0	0	0.000000	-20.000000	0.000000
1984	12	1	0	0	0.000000	-20.000000	0.000000
1984	12	2	0	0	0.000000	-20.000000	0.000000
1984	12	3	0	0	0.000000	-457.400000	0.000000
1984	12	4	0	0	0.000000	-415.080000	0.000000
1984	12	5	0	0	0.000000	-418.440000	0.000000
1984	12	6	0	0	0.000000	-300.190000	0.000000
1984	12	7	0	0	0.000000	-20.000000	0.000000
1984	12	8	0	0	0.000000	-73.100000	0.000000
1984	12	9	0	0	0.000000	-20.000000	0.000000
1984	12	10	0	0	0.000000	-225.610000	0.000000
1984	12	11	0	0	0.000000	-24.720000	0.000000
1984	12	12	0	0	0.000000	-20.000000	0.000000
1984	12	13	0	0	0.000000	-321.020000	0.000000
1984	12	14	0	0	0.000000	-226.280000	0.000000
1984	12	15	0	0	0.000000	-219.560000	0.000000
1984	12	16	0	0	0.000000	-49.580000	0.000000
1984	12	17	0	0	0.000000	-133.570000	0.000000
1984	12	18	0	0	0.000000	-372.750000	0.000000
1984	12	19	0	0	0.000000	-20.000000	0.000000
1984	12	20	0	0	0.000000	-20.000000	0.000000
1984	12	21	0	0	0.000000	-20.000000	0.000000
1984	12	22	0	0	0.000000	-20.000000	0.000000
1984	12	23	0	0	0.000000	-140.960000	0.000000
1984	12	24	0	0	0.000000	-79.820000	0.000000
1984	12	25	0	0	0.000000	-20.000000	0.000000
1984	12	26	0	0	0.000000	-20.000000	0.000000
1984	12	27	0	0	0.000000	-360.660000	0.000000
1984	12	28	0	0	0.000000	-360.660000	0.000000
1984	12	29	0	0	0.000000	-353.940000	0.000000
1984	12	30	0	0	0.000000	-159.100000	0.000000
1984	12	31	0	0	0.000000	-20.000000	0.000000
1985	1	1	0	0	0.000000	-331.770000	0.000000
1985	1	2	0	0	0.000000	-81.160000	0.000000
1985	1	3	0	0	0.000000	-20.000000	0.000000
1985	1	4	0	0	0.000000	-271.970000	0.000000
1985	1	5	0	0	0.000000	-20.000000	0.000000
1985	1	6	0	0	0.000000	-106.690000	0.000000
1985	1	7	0	0	0.000000	-54.290000	0.000000
1985	1	8	0	0	0.000000	-359.980000	0.000000
1985	1	9	0	0	0.000000	-317.660000	0.000000
1985	1	10	0	0	0.000000	-87.210000	0.000000
1985	1	11	0	0	0.000000	-20.000000	0.000000
1985	1	12	0	0	0.000000	-20.000000	0.000000
1985	1	13	0	0	0.000000	-20.000000	0.000000
1985	1	14	0	0	0.000000	-312.280000	0.000000
1985	1	15	0	0	0.000000	-85.190000	0.000000
1985	1	16	0	0	0.000000	-28.080000	0.000000
1985	1	17	0	0	0.000000	-20.000000	0.000000
1985	1	18	0	0	0.000000	-20.000000	0.000000
1985	1	19	0	0	0.000000	-20.000000	0.000000
1985	1	20	0	0	0.000000	-20.000000	0.000000
1985	1	21	0	0	0.000000	-20.000000	0.000000
1985	1	22	0	0	0.000000	-20.000000	0.000000
1985	1	23	0	0	0.000000	-303.550000	0.000000
1985	1	24	0	0	0.000000	-251.140000	0.000000
1985	1	25	0	0	0.000000	-20.000000	0.000000
1985	1	26	0	0	0.000000	-20.000000	0.000000
1985	1	27	0	0	0.000000	-20.000000	0.000000
1985	1	28	0	0	0.000000	-20.000000	0.000000
1985	1	29	0	0	0.000000	-20.000000	0.000000
1985	1	30	0	0	0.000000	-20.000000	0.000000
1985	1	31	0	0	0.000000	-20.000000	0.000000
1985	2	1	0	0	0.000000	-20.000000	0.000000
1985	2	2	0	0	0.000000	-20.000000	0.000000
1985	2	3	0	0	0.000000	-20.000000	0.000000
1985	2	4	0	0	0.000000	-20.000000	0.000000
1985	2	5	0	0	0.000000	-20.000000	0.000000
1985	2	6	0	0	0.000000	-20.000000	0.000000
1985	2	7	0	0	0.000000	-20.000000	0.000000
1985	2	8	0	0	0.000000	-20.000000	0.000000
1985	2	9	0	0	0.000000	-206.800000	0.000000
1985	2	10	0	0	0.000000	-28.760000	0.000000
1985	2	11	0	0	0.000000	-33.460000	0.000000
1985	2	12	0	0	0.000000	-165.140000	0.000000
1985	2	13	0	0	0.000000	-345.200000	0.000000
1985	2	14	0	0	0.000000	-344.530000	0.000000
1985	2	15	0	0	0.000000	-48.240000	0.000000
1985	2	16	0	0	0.000000	-20.000000	0.000000
1985	2	17	0	0	0.000000	-20.000000	0.000000
1985	2	18	0	0	0.000000	-20.000000	0.000000
1985	2	19	0	0	0.000000	-20.000000	0.000000
1985	2	20	0	0	0.000000	-52.940000	0.000000
1985	2	21	0	0	0.000000	-143.640000	0.000000
1985	2	22	0	0	0.000000	-20.000000	0.000000
1985	2	23	0	0	0.000000	-49.580000	0.000000
1985	2	24	0	0	0.000000	-20.000000	0.000000
1985	2	25	0	0	0.000000	-80.490000	0.000000
1985	2	26	0	0	0.000000	-20.000000	0.000000
1985	2	27	0	0	0.000000	-20.000000	0.000000
1985	2	28	0	0	0.000000	-167.830000	0.000000
1985	3	1	0	0	0.000000	-120.130000	0.000000
1985	3	2	0	0	0.000000	-178.580000	0.000000
1985	3	3	0	0	0.000000	-25.400000	0.000000
1985	3	4	0	0	0.000000	-103.330000	0.000000
1985	3	5	0	0	0.000000	-20.000000	0.000000

1985	3	6	0	0	0.000000	-28.760000	0.000000
1985	3	7	0	0	0.000000	-20.000000	0.000000
1985	3	8	0	0	0.000000	-118.790000	0.000000
1985	3	9	0	0	0.000000	-20.000000	0.000000
1985	3	10	0	0	0.000000	-20.690000	0.000000
1985	3	11	0	0	0.000000	-76.460000	0.000000
1985	3	12	0	0	0.000000	-152.380000	0.000000
1985	3	13	0	0	0.000000	-327.060000	0.000000
1985	3	14	0	0	0.000000	-128.860000	0.000000
1985	3	15	0	0	0.000000	-212.170000	0.000000
1985	3	16	0	0	0.000000	-20.000000	0.000000
1985	3	17	0	0	0.000000	-20.000000	0.000000
1985	3	18	0	0	0.000000	-130.210000	0.000000
1985	3	19	0	0	0.000000	-233.670000	0.000000
1985	3	20	0	0	0.000000	-266.600000	0.000000
1985	3	21	0	0	0.000000	-329.080000	0.000000
1985	3	22	0	0	0.000000	-184.630000	0.000000
1985	3	23	0	0	0.000000	-20.000000	0.000000
1985	3	24	0	0	0.000000	-81.160000	0.000000
1985	3	25	0	0	0.000000	-325.050000	0.000000
1985	3	26	0	0	0.000000	-293.470000	0.000000
1985	3	27	0	0	0.000000	-268.610000	0.000000
1985	3	28	0	0	0.000000	-142.300000	0.000000
1985	3	29	0	0	0.000000	-236.360000	0.000000
1985	3	30	0	0	0.000000	-112.070000	0.000000
1985	3	31	0	0	0.000000	-24.050000	0.000000
1985	4	1	0	0	0.000000	-155.070000	0.000000
1985	4	2	0	0	0.000000	-208.140000	0.000000
1985	4	3	0	0	0.000000	-192.690000	0.000000
1985	4	4	0	0	0.000000	-54.290000	0.000000
1985	4	5	0	0	0.000000	-106.690000	0.000000
1985	4	6	0	0	0.000000	-137.600000	0.000000
1985	4	7	0	0	0.000000	-20.000000	0.000000
1985	4	8	0	0	0.000000	-268.610000	0.000000
1985	4	9	0	0	0.000000	-351.250000	0.000000
1985	4	10	0	0	0.000000	-388.200000	0.000000
1985	4	11	0	0	0.000000	-347.890000	0.000000
1985	4	12	0	0	0.000000	-235.020000	0.000000
1985	4	13	0	0	0.000000	-20.000000	0.000000
1985	4	14	0	0	0.000000	-27.410000	0.000000
1985	4	15	0	0	0.000000	-335.800000	0.000000
1985	4	16	0	0	0.000000	-62.350000	0.000000
1985	4	17	0	0	0.000000	-331.770000	0.000000
1985	4	18	0	0	0.000000	-350.580000	0.000000
1985	4	19	0	0	0.000000	-389.550000	0.000000
1985	4	20	0	0	0.000000	-333.110000	0.000000
1985	4	21	0	0	0.000000	-20.000000	0.000000
1985	4	22	0	0	0.000000	-394.920000	0.000000
1985	4	23	0	0	0.000000	-373.420000	0.000000
1985	4	24	0	0	0.000000	-844.400000	0.000000
1985	4	25	0	0	0.000000	-448.670000	0.000000
1985	4	26	0	0	0.000000	-277.340000	0.000000
1985	4	27	0	0	0.000000	-20.000000	0.000000
1985	4	28	0	0	0.000000	-99.970000	0.000000
1985	4	29	0	0	0.000000	-248.450000	0.000000
1985	4	30	0	0	0.000000	-511.820000	0.000000
1985	5	1	0	0	0.000000	-513.840000	0.000000
1985	5	2	0	0	0.000000	-87.210000	0.000000
1985	5	3	0	0	0.000000	-56.300000	0.000000
1985	5	4	0	0	0.000000	-423.140000	0.000000
1985	5	5	0	0	0.000000	-42.860000	0.000000
1985	5	6	0	0	0.000000	-120.800000	0.000000
1985	5	7	0	0	0.000000	-20.000000	0.000000
1985	5	8	0	0	0.000000	-20.000000	0.000000
1985	5	9	0	0	0.000000	-20.000000	0.000000
1985	5	10	0	0	0.000000	-20.000000	0.000000
1985	5	11	0	0	0.000000	-20.000000	0.000000
1985	5	12	0	0	0.000000	-20.000000	0.000000
1985	5	13	0	0	0.000000	-374.090000	0.000000
1985	5	14	0	0	0.000000	-356.620000	0.000000
1985	5	15	0	0	0.000000	-228.300000	0.000000
1985	5	16	0	0	0.000000	-540.040000	0.000000
1985	5	17	0	0	0.000000	-1637.190000	0.000000
1985	5	18	0	0	0.000000	-9833.920000	0.000000
1985	5	19	0	0	0.000000	-5130.880000	0.000000
1985	5	20	0	0	0.000000	-1435.640000	0.000000
1985	5	21	0	0	0.000000	-830.960000	0.000000
1985	5	22	0	0	0.000000	-830.960000	0.000000
1985	5	23	0	0	0.000000	-1771.570000	0.000000
1985	5	24	0	0	0.000000	-1234.080000	0.000000
1985	5	25	0	0	0.000000	-360.660000	0.000000
1985	5	26	0	0	0.000000	-898.150000	0.000000
1985	5	27	0	0	0.000000	-696.590000	0.000000
1985	5	28	0	0	0.000000	-562.210000	0.000000
1985	5	29	0	0	0.000000	-1032.520000	0.000000
1985	5	30	0	0	0.000000	-898.150000	0.000000
1985	5	31	0	0	0.000000	-965.330000	0.000000
1985	6	1	0	0	0.000000	-2577.800000	0.000000
1985	6	2	0	0	0.000000	-488.310000	0.000000
1985	6	3	0	0	0.000000	-521.900000	0.000000
1985	6	4	0	0	0.000000	-20.000000	0.000000
1985	6	5	0	0	0.000000	-20.000000	0.000000
1985	6	6	0	0	0.000000	-65.040000	0.000000
1985	6	7	0	0	0.000000	-400.970000	0.000000
1985	6	8	0	0	0.000000	-374.090000	0.000000
1985	6	9	0	0	0.000000	-333.780000	0.000000
1985	6	10	0	0	0.000000	-360.660000	0.000000
1985	6	11	0	0	0.000000	-192.690000	0.000000
1985	6	12	0	0	0.000000	-159.100000	0.000000
1985	6	13	0	0	0.000000	-20.000000	0.000000
1985	6	14	0	0	0.000000	-20.000000	0.000000
1985	6	15	0	0	0.000000	-20.000000	0.000000
1985	6	16	0	0	0.000000	-20.000000	0.000000
1985	6	17	0	0	0.000000	-44.880000	0.000000
1985	6	18	0	0	0.000000	-20.000000	0.000000
1985	6	19	0	0	0.000000	-20.000000	0.000000
1985	6	20	0	0	0.000000	-414.400000	0.000000
1985	6	21	0	0	0.000000	-125.500000	0.000000
1985	6	22	0	0	0.000000	-20.000000	0.000000
1985	6	23	0	0	0.000000	-20.000000	0.000000
1985	6	24	0	0	0.000000	-192.690000	0.000000
1985	6	25	0	0	0.000000	-333.780000	0.000000
1985	6	26	0	0	0.000000	-112.070000	0.000000
1985	6	27	0	0	0.000000	-125.500000	0.000000
1985	6	28	0	0	0.000000	-105.350000	0.000000
1985	6	29	0	0	0.000000	-20.000000	0.000000
1985	6	30	0	0	0.000000	-20.000000	0.000000
1985	7	1	0	0	0.000000	-20.000000	0.000000
1985	7	2	0	0	0.000000	-20.000000	0.000000
1985	7	3	0	0	0.000000	-71.750000	0.000000
1985	7	4	0	0	0.000000	-20.000000	0.000000
1985	7	5	0	0	0.000000	-20.000000	0.000000
1985	7	6	0	0	0.000000	-20.000000	0.000000
1985	7	7	0	0	0.000000	-20.000000	0.000000
1985	7	8	0	0	0.000000	-20.000000	0.000000
1985	7	9	0	0	0.000000	-20.000000	0.000000
1985	7	10	0	0	0.000000	-179.920000	0.000000
1985	7	11	0	0	0.000000	-224.940000	0.000000
1985	7	12	0	0	0.000000	-99.300000	0.000000
1985	7	13	0	0	0.000000	-20.000000	0.000000
1985	7	14	0	0	0.000000	-20.000000	0.000000
1985	7	15	0	0	0.000000	-179.250000	0.000000
1985	7	16	0	0	0.000000	-194.710000	0.000000
1985	7	17	0	0	0.000000	-20.000000	0.000000
1985	7	18	0	0	0.000000	-20.000000	0.000000
1985	7	19	0	0	0.000000	-20.000000	0.000000
1985	7	20	0	0	0.000000	-388.870000	0.000000
1985	7	21	0	0	0.000000	-49.580000	0.000000
1985	7	22	0	0	0.000000	-137.600000	0.000000
1985	7	23	0	0	0.000000	-20.000000	0.000000

1985	7	24	0	0	0.000000	-20.000000	0.000000
1985	7	25	0	0	0.000000	-20.000000	0.000000
1985	7	26	0	0	0.000000	-166.490000	0.000000
1985	7	27	0	0	0.000000	-137.600000	0.000000
1985	7	28	0	0	0.000000	-58.320000	0.000000
1985	7	29	0	0	0.000000	-478.230000	0.000000
1985	7	30	0	0	0.000000	-272.640000	0.000000
1985	7	31	0	0	0.000000	-20.000000	0.000000
1985	8	1	0	0	0.000000	-20.000000	0.000000
1985	8	2	0	0	0.000000	-20.000000	0.000000
1985	8	3	0	0	0.000000	-20.000000	0.000000
1985	8	4	0	0	0.000000	-20.000000	0.000000
1985	8	5	0	0	0.000000	-20.000000	0.000000
1985	8	6	0	0	0.000000	-159.100000	0.000000
1985	8	7	0	0	0.000000	-20.000000	0.000000
1985	8	8	0	0	0.000000	-37.490000	0.000000
1985	8	9	0	0	0.000000	-85.190000	0.000000
1985	8	10	0	0	0.000000	-20.000000	0.000000
1985	8	11	0	0	0.000000	-20.000000	0.000000
1985	8	12	0	0	0.000000	-126.180000	0.000000
1985	8	13	0	0	0.000000	-155.740000	0.000000
1985	8	14	0	0	0.000000	-206.800000	0.000000
1985	8	15	0	0	0.000000	-171.190000	0.000000
1985	8	16	0	0	0.000000	-181.940000	0.000000
1985	8	17	0	0	0.000000	-20.000000	0.000000
1985	8	18	0	0	0.000000	-20.000000	0.000000
1985	8	19	0	0	0.000000	-91.910000	0.000000
1985	8	20	0	0	0.000000	-20.000000	0.000000
1985	8	21	0	0	0.000000	-20.000000	0.000000
1985	8	22	0	0	0.000000	-20.000000	0.000000
1985	8	23	0	0	0.000000	-20.000000	0.000000
1985	8	24	0	0	0.000000	-20.000000	0.000000
1985	8	25	0	0	0.000000	-20.000000	0.000000
1985	8	26	0	0	0.000000	-20.000000	0.000000
1985	8	27	0	0	0.000000	-20.000000	0.000000
1985	8	28	0	0	0.000000	-20.000000	0.000000
1985	8	29	0	0	0.000000	-20.000000	0.000000
1985	8	30	0	0	0.000000	-79.150000	0.000000
1985	8	31	0	0	0.000000	-417.090000	0.000000
1985	9	1	0	0	0.000000	-20.000000	0.000000
1985	9	2	0	0	0.000000	-38.160000	0.000000
1985	9	3	0	0	0.000000	-52.270000	0.000000
1985	9	4	0	0	0.000000	-135.580000	0.000000
1985	9	5	0	0	0.000000	-20.000000	0.000000
1985	9	6	0	0	0.000000	-20.000000	0.000000
1985	9	7	0	0	0.000000	-73.770000	0.000000
1985	9	8	0	0	0.000000	-143.640000	0.000000
1985	9	9	0	0	0.000000	-212.850000	0.000000
1985	9	10	0	0	0.000000	-35.470000	0.000000
1985	9	11	0	0	0.000000	-107.360000	0.000000
1985	9	12	0	0	0.000000	-120.130000	0.000000
1985	9	13	0	0	0.000000	-239.050000	0.000000
1985	9	14	0	0	0.000000	-25.400000	0.000000
1985	9	15	0	0	0.000000	-83.180000	0.000000
1985	9	16	0	0	0.000000	-253.830000	0.000000
1985	9	17	0	0	0.000000	-20.000000	0.000000
1985	9	18	0	0	0.000000	-336.470000	0.000000
1985	9	19	0	0	0.000000	-355.950000	0.000000
1985	9	20	0	0	0.000000	-314.300000	0.000000
1985	9	21	0	0	0.000000	-85.860000	0.000000
1985	9	22	0	0	0.000000	-871.270000	0.000000
1985	9	23	0	0	0.000000	-662.990000	0.000000
1985	9	24	0	0	0.000000	-237.700000	0.000000
1985	9	25	0	0	0.000000	-20.000000	0.000000
1985	9	26	0	0	0.000000	-206.800000	0.000000
1985	9	27	0	0	0.000000	-292.130000	0.000000
1985	9	28	0	0	0.000000	-259.880000	0.000000
1985	9	29	0	0	0.000000	-249.130000	0.000000
1985	9	30	0	0	0.000000	-392.230000	0.000000
1985	10	1	0	0	0.000000	-30.770000	0.000000
1985	10	2	0	0	0.000000	-357.300000	0.000000
1985	10	3	0	0	0.000000	-20.000000	0.000000
1985	10	4	0	0	0.000000	-204.110000	0.000000
1985	10	5	0	0	0.000000	-20.000000	0.000000
1985	10	6	0	0	0.000000	-985.490000	0.000000
1985	10	7	0	0	0.000000	-8557.380000	0.000000
1985	10	8	0	0	0.000000	-2241.870000	0.000000
1985	10	9	0	0	0.000000	-1905.940000	0.000000
1985	10	10	0	0	0.000000	-1549.850000	0.000000
1985	10	11	0	0	0.000000	-1516.260000	0.000000
1985	10	12	0	0	0.000000	-1475.950000	0.000000
1985	10	13	0	0	0.000000	-1388.610000	0.000000
1985	10	14	0	0	0.000000	-1355.010000	0.000000
1985	10	15	0	0	0.000000	-884.710000	0.000000
1985	10	16	0	0	0.000000	-1590.160000	0.000000
1985	10	17	0	0	0.000000	-1415.480000	0.000000
1985	10	18	0	0	0.000000	-1012.360000	0.000000
1985	10	19	0	0	0.000000	-985.490000	0.000000
1985	10	20	0	0	0.000000	-898.150000	0.000000
1985	10	21	0	0	0.000000	-397.610000	0.000000
1985	10	22	0	0	0.000000	-602.530000	0.000000
1985	10	23	0	0	0.000000	-179.250000	0.000000
1985	10	24	0	0	0.000000	-656.280000	0.000000
1985	10	25	0	0	0.000000	-434.560000	0.000000
1985	10	26	0	0	0.000000	-1032.520000	0.000000
1985	10	27	0	0	0.000000	-1099.700000	0.000000
1985	10	28	0	0	0.000000	-1012.360000	0.000000
1985	10	29	0	0	0.000000	-1590.160000	0.000000
1985	10	30	0	0	0.000000	-1590.160000	0.000000
1985	10	31	0	0	0.000000	-1012.360000	0.000000
1985	11	1	0	0	0.000000	-945.180000	0.000000
1985	11	2	0	0	0.000000	-1590.160000	0.000000
1985	11	3	0	0	0.000000	-1502.820000	0.000000
1985	11	4	0	0	0.000000	-313.630000	0.000000
1985	11	5	0	0	0.000000	-1012.360000	0.000000
1985	11	6	0	0	0.000000	-1590.160000	0.000000
1985	11	7	0	0	0.000000	-1348.290000	0.000000
1985	11	8	0	0	0.000000	-1334.860000	0.000000
1985	11	9	0	0	0.000000	-427.840000	0.000000
1985	11	10	0	0	0.000000	-649.560000	0.000000
1985	11	11	0	0	0.000000	-1166.890000	0.000000
1985	11	12	0	0	0.000000	-1166.890000	0.000000
1985	11	13	0	0	0.000000	-1146.730000	0.000000
1985	11	14	0	0	0.000000	-837.680000	0.000000
1985	11	15	0	0	0.000000	-925.020000	0.000000
1985	11	16	0	0	0.000000	-1590.160000	0.000000
1985	11	17	0	0	0.000000	-1234.080000	0.000000
1985	11	18	0	0	0.000000	-1133.300000	0.000000
1985	11	19	0	0	0.000000	-636.120000	0.000000
1985	11	20	0	0	0.000000	-552.810000	0.000000
1985	11	21	0	0	0.000000	-703.310000	0.000000
1985	11	22	0	0	0.000000	-472.180000	0.000000
1985	11	23	0	0	0.000000	-264.580000	0.000000
1985	11	24	0	0	0.000000	-325.720000	0.000000
1985	11	25	0	0	0.000000	-534.000000	0.000000
1985	11	26	0	0	0.000000	-487.640000	0.000000
1985	11	27	0	0	0.000000	-394.250000	0.000000
1985	11	28	0	0	0.000000	-175.890000	0.000000
1985	11	29	0	0	0.000000	-340.500000	0.000000
1985	11	30	0	0	0.000000	-386.860000	0.000000
1985	12	1	0	0	0.000000	-348.560000	0.000000
1985	12	2	0	0	0.000000	-488.980000	0.000000
1985	12	3	0	0	0.000000	-95.270000	0.000000
1985	12	4	0	0	0.000000	-246.440000	0.000000
1985	12	5	0	0	0.000000	-72.430000	0.000000
1985	12	6	0	0	0.000000	-63.020000	0.000000
1985	12	7	0	0	0.000000	-315.640000	0.000000
1985	12	8	0	0	0.000000	-184.630000	0.000000
1985	12	9	0	0	0.000000	-519.220000	0.000000
1985	12	10	0	0	0.000000	-246.440000	0.000000

1985	12	11	0	0	0.000000	-318.330000	0.000000
1985	12	12	0	0	0.000000	-75.110000	0.000000
1985	12	13	0	0	0.000000	-233.670000	0.000000
1985	12	14	0	0	0.000000	-171.860000	0.000000
1985	12	15	0	0	0.000000	-184.630000	0.000000
1985	12	16	0	0	0.000000	-254.500000	0.000000
1985	12	17	0	0	0.000000	-101.990000	0.000000
1985	12	18	0	0	0.000000	-174.550000	0.000000
1985	12	19	0	0	0.000000	-48.910000	0.000000
1985	12	20	0	0	0.000000	-83.850000	0.000000
1985	12	21	0	0	0.000000	-20.000000	0.000000
1985	12	22	0	0	0.000000	-20.000000	0.000000
1985	12	23	0	0	0.000000	-138.940000	0.000000
1985	12	24	0	0	0.000000	-20.000000	0.000000
1985	12	25	0	0	0.000000	-20.000000	0.000000
1985	12	26	0	0	0.000000	-20.000000	0.000000
1985	12	27	0	0	0.000000	-20.000000	0.000000
1985	12	28	0	0	0.000000	-20.000000	0.000000
1985	12	29	0	0	0.000000	-20.000000	0.000000
1985	12	30	0	0	0.000000	-20.000000	0.000000
1985	12	31	0	0	0.000000	-306.910000	0.000000
1986	1	1	0	0	0.000000	-20.000000	0.000000
1986	1	2	0	0	0.000000	-106.690000	0.000000
1986	1	3	0	0	0.000000	-439.940000	0.000000
1986	1	4	0	0	0.000000	-169.850000	0.000000
1986	1	5	0	0	0.000000	-20.000000	0.000000
1986	1	6	0	0	0.000000	-20.000000	0.000000
1986	1	7	0	0	0.000000	-20.000000	0.000000
1986	1	8	0	0	0.000000	-20.000000	0.000000
1986	1	9	0	0	0.000000	-20.000000	0.000000
1986	1	10	0	0	0.000000	-20.000000	0.000000
1986	1	11	0	0	0.000000	-20.000000	0.000000
1986	1	12	0	0	0.000000	-20.000000	0.000000
1986	1	13	0	0	0.000000	-267.940000	0.000000
1986	1	14	0	0	0.000000	-20.000000	0.000000
1986	1	15	0	0	0.000000	-20.000000	0.000000
1986	1	16	0	0	0.000000	-26.740000	0.000000
1986	1	17	0	0	0.000000	-20.000000	0.000000
1986	1	18	0	0	0.000000	-161.780000	0.000000
1986	1	19	0	0	0.000000	-20.000000	0.000000
1986	1	20	0	0	0.000000	-251.810000	0.000000
1986	1	21	0	0	0.000000	-55.630000	0.000000
1986	1	22	0	0	0.000000	-20.000000	0.000000
1986	1	23	0	0	0.000000	-20.000000	0.000000
1986	1	24	0	0	0.000000	-20.000000	0.000000
1986	1	25	0	0	0.000000	-20.000000	0.000000
1986	1	26	0	0	0.000000	-42.190000	0.000000
1986	1	27	0	0	0.000000	-144.320000	0.000000
1986	1	28	0	0	0.000000	-25.400000	0.000000
1986	1	29	0	0	0.000000	-50.930000	0.000000
1986	1	30	0	0	0.000000	-116.770000	0.000000
1986	1	31	0	0	0.000000	-164.470000	0.000000
1986	2	1	0	0	0.000000	-34.800000	0.000000
1986	2	2	0	0	0.000000	-20.000000	0.000000
1986	2	3	0	0	0.000000	-319.670000	0.000000
1986	2	4	0	0	0.000000	-92.580000	0.000000
1986	2	5	0	0	0.000000	-46.220000	0.000000
1986	2	6	0	0	0.000000	-141.630000	0.000000
1986	2	7	0	0	0.000000	-20.000000	0.000000
1986	2	8	0	0	0.000000	-20.000000	0.000000
1986	2	9	0	0	0.000000	-20.000000	0.000000
1986	2	10	0	0	0.000000	-20.000000	0.000000
1986	2	11	0	0	0.000000	-183.280000	0.000000
1986	2	12	0	0	0.000000	-233.000000	0.000000
1986	2	13	0	0	0.000000	-171.860000	0.000000
1986	2	14	0	0	0.000000	-109.380000	0.000000
1986	2	15	0	0	0.000000	-20.000000	0.000000
1986	2	16	0	0	0.000000	-20.000000	0.000000
1986	2	17	0	0	0.000000	-20.000000	0.000000
1986	2	18	0	0	0.000000	-165.820000	0.000000
1986	2	19	0	0	0.000000	-203.440000	0.000000
1986	2	20	0	0	0.000000	-191.350000	0.000000
1986	2	21	0	0	0.000000	-163.130000	0.000000
1986	2	22	0	0	0.000000	-20.000000	0.000000
1986	2	23	0	0	0.000000	-20.000000	0.000000
1986	2	24	0	0	0.000000	-141.630000	0.000000
1986	2	25	0	0	0.000000	-198.740000	0.000000
1986	2	26	0	0	0.000000	-112.740000	0.000000
1986	2	27	0	0	0.000000	-108.710000	0.000000
1986	2	28	0	0	0.000000	-97.290000	0.000000
1986	3	1	0	0	0.000000	-20.000000	0.000000
1986	3	2	0	0	0.000000	-40.180000	0.000000
1986	3	3	0	0	0.000000	-138.940000	0.000000
1986	3	4	0	0	0.000000	-20.000000	0.000000
1986	3	5	0	0	0.000000	-20.000000	0.000000
1986	3	6	0	0	0.000000	-20.000000	0.000000
1986	3	7	0	0	0.000000	-101.320000	0.000000
1986	3	8	0	0	0.000000	-20.000000	0.000000
1986	3	9	0	0	0.000000	-20.000000	0.000000
1986	3	10	0	0	0.000000	-65.710000	0.000000
1986	3	11	0	0	0.000000	-161.780000	0.000000
1986	3	12	0	0	0.000000	-177.240000	0.000000
1986	3	13	0	0	0.000000	-172.530000	0.000000
1986	3	14	0	0	0.000000	-177.910000	0.000000
1986	3	15	0	0	0.000000	-117.440000	0.000000
1986	3	16	0	0	0.000000	-20.000000	0.000000
1986	3	17	0	0	0.000000	-133.570000	0.000000
1986	3	18	0	0	0.000000	-121.470000	0.000000
1986	3	19	0	0	0.000000	-134.910000	0.000000
1986	3	20	0	0	0.000000	-123.490000	0.000000
1986	3	21	0	0	0.000000	-73.770000	0.000000
1986	3	22	0	0	0.000000	-20.000000	0.000000
1986	3	23	0	0	0.000000	-20.000000	0.000000
1986	3	24	0	0	0.000000	-123.490000	0.000000
1986	3	25	0	0	0.000000	-117.440000	0.000000
1986	3	26	0	0	0.000000	-123.490000	0.000000
1986	3	27	0	0	0.000000	-26.070000	0.000000
1986	3	28	0	0	0.000000	-20.000000	0.000000
1986	3	29	0	0	0.000000	-20.000000	0.000000
1986	3	30	0	0	0.000000	-20.000000	0.000000
1986	3	31	0	0	0.000000	-107.360000	0.000000
1986	4	1	0	0	0.000000	-145.660000	0.000000
1986	4	2	0	0	0.000000	-47.570000	0.000000
1986	4	3	0	0	0.000000	-97.960000	0.000000
1986	4	4	0	0	0.000000	-265.920000	0.000000
1986	4	5	0	0	0.000000	-208.140000	0.000000
1986	4	6	0	0	0.000000	-317.660000	0.000000
1986	4	7	0	0	0.000000	-353.270000	0.000000
1986	4	8	0	0	0.000000	-429.190000	0.000000
1986	4	9	0	0	0.000000	-420.450000	0.000000
1986	4	10	0	0	0.000000	-469.500000	0.000000
1986	4	11	0	0	0.000000	-271.970000	0.000000
1986	4	12	0	0	0.000000	-179.920000	0.000000
1986	4	13	0	0	0.000000	-38.160000	0.000000
1986	4	14	0	0	0.000000	-165.820000	0.000000
1986	4	15	0	0	0.000000	-169.850000	0.000000
1986	4	16	0	0	0.000000	-20.000000	0.000000
1986	4	17	0	0	0.000000	-134.910000	0.000000
1986	4	18	0	0	0.000000	-642.840000	0.000000
1986	4	19	0	0	0.000000	-810.800000	0.000000
1986	4	20	0	0	0.000000	-710.020000	0.000000
1986	4	21	0	0	0.000000	-736.900000	0.000000
1986	4	22	0	0	0.000000	-198.070000	0.000000
1986	4	23	0	0	0.000000	-190.670000	0.000000
1986	4	24	0	0	0.000000	-228.300000	0.000000
1986	4	25	0	0	0.000000	-182.610000	0.000000
1986	4	26	0	0	0.000000	-130.210000	0.000000
1986	4	27	0	0	0.000000	-20.000000	0.000000
1986	4	28	0	0	0.000000	-381.480000	0.000000
1986	4	29	0	0	0.000000	-407.690000	0.000000

1986	4	30	0	0	0.000000	-871.270000	0.000000
1986	5	1	0	0	0.000000	-1509.540000	0.000000
1986	5	2	0	0	0.000000	-1858.910000	0.000000
1986	5	3	0	0	0.000000	-1321.420000	0.000000
1986	5	4	0	0	0.000000	-1079.550000	0.000000
1986	5	5	0	0	0.000000	-1133.300000	0.000000
1986	5	6	0	0	0.000000	-1274.390000	0.000000
1986	5	7	0	0	0.000000	-1207.200000	0.000000
1986	5	8	0	0	0.000000	-1207.200000	0.000000
1986	5	9	0	0	0.000000	-1153.450000	0.000000
1986	5	10	0	0	0.000000	-1126.580000	0.000000
1986	5	11	0	0	0.000000	-918.300000	0.000000
1986	5	12	0	0	0.000000	-183.280000	0.000000
1986	5	13	0	0	0.000000	-3027.950000	0.000000
1986	5	14	0	0	0.000000	-7079.280000	0.000000
1986	5	15	0	0	0.000000	-1939.530000	0.000000
1986	5	16	0	0	0.000000	-1240.800000	0.000000
1986	5	17	0	0	0.000000	-1092.990000	0.000000
1986	5	18	0	0	0.000000	-1059.390000	0.000000
1986	5	19	0	0	0.000000	-1032.520000	0.000000
1986	5	20	0	0	0.000000	-804.080000	0.000000
1986	5	21	0	0	0.000000	-575.650000	0.000000
1986	5	22	0	0	0.000000	-517.200000	0.000000
1986	5	23	0	0	0.000000	-777.210000	0.000000
1986	5	24	0	0	0.000000	-730.180000	0.000000
1986	5	25	0	0	0.000000	-493.010000	0.000000
1986	5	26	0	0	0.000000	-629.400000	0.000000
1986	5	27	0	0	0.000000	-649.560000	0.000000
1986	5	28	0	0	0.000000	-554.820000	0.000000
1986	5	29	0	0	0.000000	-723.460000	0.000000
1986	5	30	0	0	0.000000	-804.080000	0.000000
1986	5	31	0	0	0.000000	-549.450000	0.000000
1986	6	1	0	0	0.000000	-609.240000	0.000000
1986	6	2	0	0	0.000000	-525.930000	0.000000
1986	6	3	0	0	0.000000	-545.420000	0.000000
1986	6	4	0	0	0.000000	-541.390000	0.000000
1986	6	5	0	0	0.000000	-446.650000	0.000000
1986	6	6	0	0	0.000000	-462.780000	0.000000
1986	6	7	0	0	0.000000	-95.270000	0.000000
1986	6	8	0	0	0.000000	-276.000000	0.000000
1986	6	9	0	0	0.000000	-482.260000	0.000000
1986	6	10	0	0	0.000000	-525.930000	0.000000
1986	6	11	0	0	0.000000	-542.730000	0.000000
1986	6	12	0	0	0.000000	-528.620000	0.000000
1986	6	13	0	0	0.000000	-513.170000	0.000000
1986	6	14	0	0	0.000000	-273.990000	0.000000
1986	6	15	0	0	0.000000	-44.210000	0.000000
1986	6	16	0	0	0.000000	-359.310000	0.000000
1986	6	17	0	0	0.000000	-335.800000	0.000000
1986	6	18	0	0	0.000000	-669.710000	0.000000
1986	6	19	0	0	0.000000	-482.260000	0.000000
1986	6	20	0	0	0.000000	-349.910000	0.000000
1986	6	21	0	0	0.000000	-202.100000	0.000000
1986	6	22	0	0	0.000000	-20.000000	0.000000
1986	6	23	0	0	0.000000	-28.760000	0.000000
1986	6	24	0	0	0.000000	-267.270000	0.000000
1986	6	25	0	0	0.000000	-375.440000	0.000000
1986	6	26	0	0	0.000000	-386.860000	0.000000
1986	6	27	0	0	0.000000	-20.000000	0.000000
1986	6	28	0	0	0.000000	-20.000000	0.000000
1986	6	29	0	0	0.000000	-52.270000	0.000000
1986	6	30	0	0	0.000000	-20.000000	0.000000
1986	7	1	0	0	0.000000	-20.000000	0.000000
1986	7	2	0	0	0.000000	-20.000000	0.000000
1986	7	3	0	0	0.000000	-20.690000	0.000000
1986	7	4	0	0	0.000000	-20.000000	0.000000
1986	7	5	0	0	0.000000	-20.000000	0.000000
1986	7	6	0	0	0.000000	-20.000000	0.000000
1986	7	7	0	0	0.000000	-300.190000	0.000000
1986	7	8	0	0	0.000000	-20.000000	0.000000
1986	7	9	0	0	0.000000	-92.580000	0.000000
1986	7	10	0	0	0.000000	-47.570000	0.000000
1986	7	11	0	0	0.000000	-220.240000	0.000000
1986	7	12	0	0	0.000000	-20.000000	0.000000
1986	7	13	0	0	0.000000	-20.000000	0.000000
1986	7	14	0	0	0.000000	-187.990000	0.000000
1986	7	15	0	0	0.000000	-117.440000	0.000000
1986	7	16	0	0	0.000000	-235.690000	0.000000
1986	7	17	0	0	0.000000	-226.280000	0.000000
1986	7	18	0	0	0.000000	-334.450000	0.000000
1986	7	19	0	0	0.000000	-20.000000	0.000000
1986	7	20	0	0	0.000000	-20.000000	0.000000
1986	7	21	0	0	0.000000	-20.000000	0.000000
1986	7	22	0	0	0.000000	-197.390000	0.000000
1986	7	23	0	0	0.000000	-478.900000	0.000000
1986	7	24	0	0	0.000000	-399.620000	0.000000
1986	7	25	0	0	0.000000	-20.000000	0.000000
1986	7	26	0	0	0.000000	-20.000000	0.000000
1986	7	27	0	0	0.000000	-20.690000	0.000000
1986	7	28	0	0	0.000000	-20.000000	0.000000
1986	7	29	0	0	0.000000	-246.440000	0.000000
1986	7	30	0	0	0.000000	-487.640000	0.000000
1986	7	31	0	0	0.000000	-539.370000	0.000000
1986	8	1	0	0	0.000000	-522.570000	0.000000
1986	8	2	0	0	0.000000	-36.820000	0.000000
1986	8	3	0	0	0.000000	-188.660000	0.000000
1986	8	4	0	0	0.000000	-20.000000	0.000000
1986	8	5	0	0	0.000000	-20.000000	0.000000
1986	8	6	0	0	0.000000	-265.250000	0.000000
1986	8	7	0	0	0.000000	-143.640000	0.000000
1986	8	8	0	0	0.000000	-137.600000	0.000000
1986	8	9	0	0	0.000000	-20.000000	0.000000
1986	8	10	0	0	0.000000	-20.000000	0.000000
1986	8	11	0	0	0.000000	-306.910000	0.000000
1986	8	12	0	0	0.000000	-515.180000	0.000000
1986	8	13	0	0	0.000000	-305.560000	0.000000
1986	8	14	0	0	0.000000	-106.690000	0.000000
1986	8	15	0	0	0.000000	-20.000000	0.000000
1986	8	16	0	0	0.000000	-20.000000	0.000000
1986	8	17	0	0	0.000000	-20.000000	0.000000
1986	8	18	0	0	0.000000	-20.000000	0.000000
1986	8	19	0	0	0.000000	-20.000000	0.000000
1986	8	20	0	0	0.000000	-20.000000	0.000000
1986	8	21	0	0	0.000000	-20.000000	0.000000
1986	8	22	0	0	0.000000	-20.000000	0.000000
1986	8	23	0	0	0.000000	-20.000000	0.000000
1986	8	24	0	0	0.000000	-20.000000	0.000000
1986	8	25	0	0	0.000000	-20.000000	0.000000
1986	8	26	0	0	0.000000	-21.370000	0.000000
1986	8	27	0	0	0.000000	-20.000000	0.000000
1986	8	28	0	0	0.000000	-222.250000	0.000000
1986	8	29	0	0	0.000000	-261.890000	0.000000
1986	8	30	0	0	0.000000	-201.420000	0.000000
1986	8	31	0	0	0.000000	-20.000000	0.000000
1986	9	1	0	0	0.000000	-20.000000	0.000000
1986	9	2	0	0	0.000000	-425.150000	0.000000
1986	9	3	0	0	0.000000	-366.700000	0.000000
1986	9	4	0	0	0.000000	-20.000000	0.000000
1986	9	5	0	0	0.000000	-64.360000	0.000000
1986	9	6	0	0	0.000000	-20.000000	0.000000
1986	9	7	0	0	0.000000	-376.110000	0.000000
1986	9	8	0	0	0.000000	-388.200000	0.000000
1986	9	9	0	0	0.000000	-20.000000	0.000000
1986	9	10	0	0	0.000000	-20.020000	0.000000
1986	9	11	0	0	0.000000	-44.210000	0.000000
1986	9	12	0	0	0.000000	-292.130000	0.000000
1986	9	13	0	0	0.000000	-20.000000	0.000000
1986	9	14	0	0	0.000000	-20.000000	0.000000
1986	9	15	0	0	0.000000	-374.090000	0.000000
1986	9	16	0	0	0.000000	-309.590000	0.000000

1986	9	17	0	0	0.000000	-194.710000	0.000000
1986	9	18	0	0	0.000000	-243.750000	0.000000
1986	9	19	0	0	0.000000	-20.000000	0.000000
1986	9	20	0	0	0.000000	-20.000000	0.000000
1986	9	21	0	0	0.000000	-20.000000	0.000000
1986	9	22	0	0	0.000000	-20.000000	0.000000
1986	9	23	0	0	0.000000	-20.000000	0.000000
1986	9	24	0	0	0.000000	-51.600000	0.000000
1986	9	25	0	0	0.000000	-206.800000	0.000000
1986	9	26	0	0	0.000000	-214.860000	0.000000
1986	9	27	0	0	0.000000	-20.000000	0.000000
1986	9	28	0	0	0.000000	-20.000000	0.000000
1986	9	29	0	0	0.000000	-20.000000	0.000000
1986	9	30	0	0	0.000000	-20.000000	0.000000
1986	10	1	0	0	0.000000	-200.080000	0.000000
1986	10	2	0	0	0.000000	-48.910000	0.000000
1986	10	3	0	0	0.000000	-20.000000	0.000000
1986	10	4	0	0	0.000000	-30.770000	0.000000
1986	10	5	0	0	0.000000	-20.000000	0.000000
1986	10	6	0	0	0.000000	-440.610000	0.000000
1986	10	7	0	0	0.000000	-435.230000	0.000000
1986	10	8	0	0	0.000000	-589.090000	0.000000
1986	10	9	0	0	0.000000	-462.780000	0.000000
1986	10	10	0	0	0.000000	-167.160000	0.000000
1986	10	11	0	0	0.000000	-216.210000	0.000000
1986	10	12	0	0	0.000000	-20.000000	0.000000
1986	10	13	0	0	0.000000	-20.000000	0.000000
1986	10	14	0	0	0.000000	-20.000000	0.000000
1986	10	15	0	0	0.000000	-20.000000	0.000000
1986	10	16	0	0	0.000000	-61.680000	0.000000
1986	10	17	0	0	0.000000	-212.850000	0.000000
1986	10	18	0	0	0.000000	-20.000000	0.000000
1986	10	19	0	0	0.000000	-40.850000	0.000000
1986	10	20	0	0	0.000000	-38.830000	0.000000
1986	10	21	0	0	0.000000	-73.770000	0.000000
1986	10	22	0	0	0.000000	-20.000000	0.000000
1986	10	23	0	0	0.000000	-139.610000	0.000000
1986	10	24	0	0	0.000000	-49.580000	0.000000
1986	10	25	0	0	0.000000	-20.000000	0.000000
1986	10	26	0	0	0.000000	-20.000000	0.000000
1986	10	27	0	0	0.000000	-20.000000	0.000000
1986	10	28	0	0	0.000000	-20.000000	0.000000
1986	10	29	0	0	0.000000	-290.780000	0.000000
1986	10	30	0	0	0.000000	-490.330000	0.000000
1986	10	31	0	0	0.000000	-484.950000	0.000000
1986	11	1	0	0	0.000000	-29.430000	0.000000
1986	11	2	0	0	0.000000	-20.000000	0.000000
1986	11	3	0	0	0.000000	-73.100000	0.000000
1986	11	4	0	0	0.000000	-112.070000	0.000000
1986	11	5	0	0	0.000000	-20.000000	0.000000
1986	11	6	0	0	0.000000	-20.000000	0.000000
1986	11	7	0	0	0.000000	-20.000000	0.000000
1986	11	8	0	0	0.000000	-20.000000	0.000000
1986	11	9	0	0	0.000000	-22.040000	0.000000
1986	11	10	0	0	0.000000	-172.530000	0.000000
1986	11	11	0	0	0.000000	-172.530000	0.000000
1986	11	12	0	0	0.000000	-73.100000	0.000000
1986	11	13	0	0	0.000000	-159.770000	0.000000
1986	11	14	0	0	0.000000	-171.860000	0.000000
1986	11	15	0	0	0.000000	-20.000000	0.000000
1986	11	16	0	0	0.000000	-20.000000	0.000000
1986	11	17	0	0	0.000000	-20.000000	0.000000
1986	11	18	0	0	0.000000	-277.340000	0.000000
1986	11	19	0	0	0.000000	-985.490000	0.000000
1986	11	20	0	0	0.000000	-938.460000	0.000000
1986	11	21	0	0	0.000000	-602.530000	0.000000
1986	11	22	0	0	0.000000	-79.820000	0.000000
1986	11	23	0	0	0.000000	-22.710000	0.000000
1986	11	24	0	0	0.000000	-103.330000	0.000000
1986	11	25	0	0	0.000000	-20.000000	0.000000
1986	11	26	0	0	0.000000	-20.000000	0.000000
1986	11	27	0	0	0.000000	-20.000000	0.000000
1986	11	28	0	0	0.000000	-20.000000	0.000000
1986	11	29	0	0	0.000000	-202.100000	0.000000
1986	11	30	0	0	0.000000	-20.000000	0.000000
1986	12	1	0	0	0.000000	-363.340000	0.000000
1986	12	2	0	0	0.000000	-629.400000	0.000000
1986	12	3	0	0	0.000000	-205.460000	0.000000
1986	12	4	0	0	0.000000	-44.880000	0.000000
1986	12	5	0	0	0.000000	-237.700000	0.000000
1986	12	6	0	0	0.000000	-20.000000	0.000000
1986	12	7	0	0	0.000000	-20.000000	0.000000
1986	12	8	0	0	0.000000	-112.070000	0.000000
1986	12	9	0	0	0.000000	-20.000000	0.000000
1986	12	10	0	0	0.000000	-28.760000	0.000000
1986	12	11	0	0	0.000000	-20.000000	0.000000
1986	12	12	0	0	0.000000	-183.280000	0.000000
1986	12	13	0	0	0.000000	-229.640000	0.000000
1986	12	14	0	0	0.000000	-20.000000	0.000000
1986	12	15	0	0	0.000000	-20.000000	0.000000
1986	12	16	0	0	0.000000	-20.000000	0.000000
1986	12	17	0	0	0.000000	-22.040000	0.000000
1986	12	18	0	0	0.000000	-20.000000	0.000000
1986	12	19	0	0	0.000000	-20.000000	0.000000
1986	12	20	0	0	0.000000	-20.000000	0.000000
1986	12	21	0	0	0.000000	-20.000000	0.000000
1986	12	22	0	0	0.000000	-125.500000	0.000000
1986	12	23	0	0	0.000000	-380.810000	0.000000
1986	12	24	0	0	0.000000	-165.140000	0.000000
1986	12	25	0	0	0.000000	-20.000000	0.000000
1986	12	26	0	0	0.000000	-104.680000	0.000000
1986	12	27	0	0	0.000000	-40.180000	0.000000
1986	12	28	0	0	0.000000	-20.000000	0.000000
1986	12	29	0	0	0.000000	-20.000000	0.000000
1986	12	30	0	0	0.000000	-20.000000	0.000000
1986	12	31	0	0	0.000000	-20.000000	0.000000
1987	1	1	0	0	0.000000	-20.000000	0.000000
1987	1	2	0	0	0.000000	-20.000000	0.000000
1987	1	3	0	0	0.000000	-20.000000	0.000000
1987	1	4	0	0	0.000000	-20.000000	0.000000
1987	1	5	0	0	0.000000	-20.000000	0.000000
1987	1	6	0	0	0.000000	-20.000000	0.000000
1987	1	7	0	0	0.000000	-20.000000	0.000000
1987	1	8	0	0	0.000000	-331.770000	0.000000
1987	1	9	0	0	0.000000	-465.470000	0.000000
1987	1	10	0	0	0.000000	-36.150000	0.000000
1987	1	11	0	0	0.000000	-20.000000	0.000000
1987	1	12	0	0	0.000000	-107.360000	0.000000
1987	1	13	0	0	0.000000	-128.190000	0.000000
1987	1	14	0	0	0.000000	-20.000000	0.000000
1987	1	15	0	0	0.000000	-20.000000	0.000000
1987	1	16	0	0	0.000000	-20.000000	0.000000
1987	1	17	0	0	0.000000	-20.000000	0.000000
1987	1	18	0	0	0.000000	-20.000000	0.000000
1987	1	19	0	0	0.000000	-20.000000	0.000000
1987	1	20	0	0	0.000000	-58.320000	0.000000
1987	1	21	0	0	0.000000	-20.000000	0.000000
1987	1	22	0	0	0.000000	-214.860000	0.000000
1987	1	23	0	0	0.000000	-20.000000	0.000000
1987	1	24	0	0	0.000000	-36.820000	0.000000
1987	1	25	0	0	0.000000	-20.000000	0.000000
1987	1	26	0	0	0.000000	-150.360000	0.000000
1987	1	27	0	0	0.000000	-20.000000	0.000000
1987	1	28	0	0	0.000000	-20.000000	0.000000
1987	1	29	0	0	0.000000	-20.000000	0.000000
1987	1	30	0	0	0.000000	-20.000000	0.000000
1987	1	31	0	0	0.000000	-20.000000	0.000000
1987	2	1	0	0	0.000000	-20.000000	0.000000
1987	2	2	0	0	0.000000	-20.000000	0.000000
1987	2	3	0	0	0.000000	-67.050000	0.000000

1987	2	4	0	0	0.000000	-107.360000	0.000000
1987	2	5	0	0	0.000000	-101.320000	0.000000
1987	2	6	0	0	0.000000	-77.800000	0.000000
1987	2	7	0	0	0.000000	-20.000000	0.000000
1987	2	8	0	0	0.000000	-20.000000	0.000000
1987	2	9	0	0	0.000000	-20.000000	0.000000
1987	2	10	0	0	0.000000	-20.000000	0.000000
1987	2	11	0	0	0.000000	-194.710000	0.000000
1987	2	12	0	0	0.000000	-710.020000	0.000000
1987	2	13	0	0	0.000000	-103.330000	0.000000
1987	2	14	0	0	0.000000	-135.580000	0.000000
1987	2	15	0	0	0.000000	-20.000000	0.000000
1987	2	16	0	0	0.000000	-120.800000	0.000000
1987	2	17	0	0	0.000000	-327.730000	0.000000
1987	2	18	0	0	0.000000	-269.280000	0.000000
1987	2	19	0	0	0.000000	-304.890000	0.000000
1987	2	20	0	0	0.000000	-280.700000	0.000000
1987	2	21	0	0	0.000000	-28.080000	0.000000
1987	2	22	0	0	0.000000	-20.000000	0.000000
1987	2	23	0	0	0.000000	-46.900000	0.000000
1987	2	24	0	0	0.000000	-20.000000	0.000000
1987	2	25	0	0	0.000000	-20.000000	0.000000
1987	2	26	0	0	0.000000	-20.000000	0.000000
1987	2	27	0	0	0.000000	-20.000000	0.000000
1987	2	28	0	0	0.000000	-120.130000	0.000000
1987	3	1	0	0	0.000000	-20.000000	0.000000
1987	3	2	0	0	0.000000	-20.000000	0.000000
1987	3	3	0	0	0.000000	-20.000000	0.000000
1987	3	4	0	0	0.000000	-20.000000	0.000000
1987	3	5	0	0	0.000000	-20.000000	0.000000
1987	3	6	0	0	0.000000	-20.000000	0.000000
1987	3	7	0	0	0.000000	-20.000000	0.000000
1987	3	8	0	0	0.000000	-20.000000	0.000000
1987	3	9	0	0	0.000000	-20.000000	0.000000
1987	3	10	0	0	0.000000	-20.000000	0.000000
1987	3	11	0	0	0.000000	-20.000000	0.000000
1987	3	12	0	0	0.000000	-20.000000	0.000000
1987	3	13	0	0	0.000000	-20.000000	0.000000
1987	3	14	0	0	0.000000	-20.000000	0.000000
1987	3	15	0	0	0.000000	-20.000000	0.000000
1987	3	16	0	0	0.000000	-20.000000	0.000000
1987	3	17	0	0	0.000000	-20.000000	0.000000
1987	3	18	0	0	0.000000	-20.000000	0.000000
1987	3	19	0	0	0.000000	-20.000000	0.000000
1987	3	20	0	0	0.000000	-20.000000	0.000000
1987	3	21	0	0	0.000000	-210.830000	0.000000
1987	3	22	0	0	0.000000	-20.000000	0.000000
1987	3	23	0	0	0.000000	-101.320000	0.000000
1987	3	24	0	0	0.000000	-168.500000	0.000000
1987	3	25	0	0	0.000000	-20.000000	0.000000
1987	3	26	0	0	0.000000	-20.000000	0.000000
1987	3	27	0	0	0.000000	-20.000000	0.000000
1987	3	28	0	0	0.000000	-20.000000	0.000000
1987	3	29	0	0	0.000000	-20.000000	0.000000
1987	3	30	0	0	0.000000	-20.000000	0.000000
1987	3	31	0	0	0.000000	-20.000000	0.000000
1987	4	1	0	0	0.000000	-20.000000	0.000000
1987	4	2	0	0	0.000000	-20.000000	0.000000
1987	4	3	0	0	0.000000	-20.000000	0.000000
1987	4	4	0	0	0.000000	-126.180000	0.000000
1987	4	5	0	0	0.000000	-69.070000	0.000000
1987	4	6	0	0	0.000000	-204.110000	0.000000
1987	4	7	0	0	0.000000	-20.000000	0.000000
1987	4	8	0	0	0.000000	-20.000000	0.000000
1987	4	9	0	0	0.000000	-20.690000	0.000000
1987	4	10	0	0	0.000000	-169.170000	0.000000
1987	4	11	0	0	0.000000	-358.640000	0.000000
1987	4	12	0	0	0.000000	-925.020000	0.000000
1987	4	13	0	0	0.000000	-938.460000	0.000000
1987	4	14	0	0	0.000000	-642.840000	0.000000
1987	4	15	0	0	0.000000	-676.430000	0.000000
1987	4	16	0	0	0.000000	-763.770000	0.000000
1987	4	17	0	0	0.000000	-918.300000	0.000000
1987	4	18	0	0	0.000000	-448.670000	0.000000
1987	4	19	0	0	0.000000	-94.600000	0.000000
1987	4	20	0	0	0.000000	-267.940000	0.000000
1987	4	21	0	0	0.000000	-257.860000	0.000000
1987	4	22	0	0	0.000000	-300.190000	0.000000
1987	4	23	0	0	0.000000	-237.030000	0.000000
1987	4	24	0	0	0.000000	-214.190000	0.000000
1987	4	25	0	0	0.000000	-20.000000	0.000000
1987	4	26	0	0	0.000000	-42.860000	0.000000
1987	4	27	0	0	0.000000	-151.710000	0.000000
1987	4	28	0	0	0.000000	-179.250000	0.000000
1987	4	29	0	0	0.000000	-194.030000	0.000000
1987	4	30	0	0	0.000000	-220.240000	0.000000
1987	5	1	0	0	1	-224.270000	0.000000
1987	5	2	0	0	0.000000	-185.300000	0.000000
1987	5	3	0	0	0.000000	-79.150000	0.000000
1987	5	4	0	0	0.000000	-157.080000	0.000000
1987	5	5	0	0	0.000000	-198.740000	0.000000
1987	5	6	0	0	0.000000	-179.920000	0.000000
1987	5	7	0	0	0.000000	-58.320000	0.000000
1987	5	8	0	0	0.000000	-143.640000	0.000000
1987	5	9	0	0	0.000000	-59.660000	0.000000
1987	5	10	0	0	0.000000	-20.000000	0.000000
1987	5	11	0	0	0.000000	-676.430000	0.000000
1987	5	12	0	0	0.000000	-629.400000	0.000000
1987	5	13	0	0	0.000000	-300.860000	0.000000
1987	5	14	0	0	0.000000	-294.140000	0.000000
1987	5	15	0	0	0.000000	-206.800000	0.000000
1987	5	16	0	0	0.000000	-330.420000	0.000000
1987	5	17	0	0	0.000000	-115.430000	0.000000
1987	5	18	0	0	0.000000	-382.830000	0.000000
1987	5	19	0	0	0.000000	-424.480000	0.000000
1987	5	20	0	0	0.000000	-683.150000	0.000000
1987	5	21	0	0	0.000000	-337.810000	0.000000
1987	5	22	0	0	0.000000	-302.200000	0.000000
1987	5	23	0	0	0.000000	-238.380000	0.000000
1987	5	24	0	0	0.000000	-278.020000	0.000000
1987	5	25	0	0	0.000000	-466.140000	0.000000
1987	5	26	0	0	0.000000	-462.780000	0.000000
1987	5	27	0	0	0.000000	-345.870000	0.000000
1987	5	28	0	0	0.000000	-381.480000	0.000000
1987	5	29	0	0	0.000000	-354.610000	0.000000
1987	5	30	0	0	0.000000	-225.610000	0.000000
1987	5	31	0	0	0.000000	-227.630000	0.000000
1987	6	1	0	0	0.000000	-388.870000	0.000000
1987	6	2	0	0	0.000000	-519.890000	0.000000
1987	6	3	0	0	0.000000	-965.330000	0.000000
1987	6	4	0	0	0.000000	-736.900000	0.000000
1987	6	5	0	0	0.000000	-320.340000	0.000000
1987	6	6	0	0	0.000000	-589.090000	0.000000
1987	6	7	0	0	0.000000	-481.590000	0.000000
1987	6	8	0	0	0.000000	-291.450000	0.000000
1987	6	9	0	0	0.000000	-279.360000	0.000000
1987	6	10	0	0	0.000000	-265.250000	0.000000
1987	6	11	0	0	0.000000	-360.660000	0.000000
1987	6	12	0	0	0.000000	-265.250000	0.000000
1987	6	13	0	0	0.000000	-323.030000	0.000000
1987	6	14	0	0	0.000000	-175.220000	0.000000
1987	6	15	0	0	0.000000	-253.160000	0.000000
1987	6	16	0	0	0.000000	-310.940000	0.000000
1987	6	17	0	0	0.000000	-222.920000	0.000000
1987	6	18	0	0	0.000000	-212.170000	0.000000
1987	6	19	0	0	0.000000	-244.420000	0.000000
1987	6	20	0	0	0.000000	-190.670000	0.000000
1987	6	21	0	0	0.000000	-267.270000	0.000000
1987	6	22	0	0	0.000000	-437.250000	0.000000
1987	6	23	0	0	0.000000	-438.590000	0.000000

1987	6	24	0	0	0.000000	-568.930000	0.000000
1987	6	25	0	0	0.000000	-248.450000	0.000000
1987	6	26	0	0	0.000000	-56.970000	0.000000
1987	6	27	0	0	0.000000	-73.770000	0.000000
1987	6	28	0	0	0.000000	-173.210000	0.000000
1987	6	29	0	0	0.000000	-408.360000	0.000000
1987	6	30	0	0	0.000000	-412.390000	0.000000
1987	7	1	0	0	0.000000	-326.390000	0.000000
1987	7	2	0	0	0.000000	-266.600000	0.000000
1987	7	3	0	0	0.000000	-345.200000	0.000000
1987	7	4	0	0	0.000000	-312.950000	0.000000
1987	7	5	0	0	0.000000	-112.740000	0.000000
1987	7	6	0	0	0.000000	-20.000000	0.000000
1987	7	7	0	0	0.000000	-20.000000	0.000000
1987	7	8	0	0	0.000000	-20.000000	0.000000
1987	7	9	0	0	0.000000	-33.460000	0.000000
1987	7	10	0	0	0.000000	-52.270000	0.000000
1987	7	11	0	0	0.000000	-392.230000	0.000000
1987	7	12	0	0	0.000000	-83.180000	0.000000
1987	7	13	0	0	0.000000	-20.000000	0.000000
1987	7	14	0	0	0.000000	-139.610000	0.000000
1987	7	15	0	0	0.000000	-88.550000	0.000000
1987	7	16	0	0	0.000000	-85.860000	0.000000
1987	7	17	0	0	0.000000	-247.110000	0.000000
1987	7	18	0	0	0.000000	-403.650000	0.000000
1987	7	19	0	0	0.000000	-142.970000	0.000000
1987	7	20	0	0	0.000000	-292.800000	0.000000
1987	7	21	0	0	0.000000	-20.000000	0.000000
1987	7	22	0	0	0.000000	-149.020000	0.000000
1987	7	23	0	0	0.000000	-283.390000	0.000000
1987	7	24	0	0	0.000000	-20.000000	0.000000
1987	7	25	0	0	0.000000	-20.000000	0.000000
1987	7	26	0	0	0.000000	-20.000000	0.000000
1987	7	27	0	0	0.000000	-72.430000	0.000000
1987	7	28	0	0	0.000000	-284.060000	0.000000
1987	7	29	0	0	0.000000	-316.980000	0.000000
1987	7	30	0	0	0.000000	-245.770000	0.000000
1987	7	31	0	0	0.000000	-63.020000	0.000000
1987	8	1	0	0	0.000000	-20.000000	0.000000
1987	8	2	0	0	0.000000	-20.000000	0.000000
1987	8	3	0	0	0.000000	-20.000000	0.000000
1987	8	4	0	0	0.000000	-123.490000	0.000000
1987	8	5	0	0	0.000000	-63.690000	0.000000
1987	8	6	0	0	0.000000	-267.270000	0.000000
1987	8	7	0	0	0.000000	-20.000000	0.000000
1987	8	8	0	0	0.000000	-20.000000	0.000000
1987	8	9	0	0	0.000000	-20.000000	0.000000
1987	8	10	0	0	0.000000	-20.000000	0.000000
1987	8	11	0	0	0.000000	-20.000000	0.000000
1987	8	12	0	0	0.000000	-20.000000	0.000000
1987	8	13	0	0	0.000000	-20.000000	0.000000
1987	8	14	0	0	0.000000	-20.000000	0.000000
1987	8	15	0	0	0.000000	-263.240000	0.000000
1987	8	16	0	0	0.000000	-20.000000	0.000000
1987	8	17	0	0	0.000000	-20.000000	0.000000
1987	8	18	0	0	0.000000	-20.000000	0.000000
1987	8	19	0	0	0.000000	-162.460000	0.000000
1987	8	20	0	0	0.000000	-401.640000	0.000000
1987	8	21	0	0	0.000000	-189.330000	0.000000
1987	8	22	0	0	0.000000	-20.000000	0.000000
1987	8	23	0	0	0.000000	-20.000000	0.000000
1987	8	24	0	0	0.000000	-273.310000	0.000000
1987	8	25	0	0	0.000000	-20.000000	0.000000
1987	8	26	0	0	0.000000	-20.000000	0.000000
1987	8	27	0	0	0.000000	-273.310000	0.000000
1987	8	28	0	0	0.000000	-318.330000	0.000000
1987	8	29	0	0	0.000000	-20.000000	0.000000
1987	8	30	0	0	0.000000	-20.000000	0.000000
1987	8	31	0	0	0.000000	-73.100000	0.000000
1987	9	1	0	0	0.000000	-20.000000	0.000000
1987	9	2	0	0	0.000000	-20.000000	0.000000
1987	9	3	0	0	0.000000	-336.470000	0.000000
1987	9	4	0	0	0.000000	-384.840000	0.000000
1987	9	5	0	0	0.000000	-20.000000	0.000000
1987	9	6	0	0	0.000000	-20.000000	0.000000
1987	9	7	0	0	0.000000	-20.000000	0.000000
1987	9	8	0	0	0.000000	-20.000000	0.000000
1987	9	9	0	0	0.000000	-158.430000	0.000000
1987	9	10	0	0	0.000000	-220.240000	0.000000
1987	9	11	0	0	0.000000	-300.190000	0.000000
1987	9	12	0	0	0.000000	-274.660000	0.000000
1987	9	13	0	0	0.000000	-228.300000	0.000000
1987	9	14	0	0	0.000000	-203.440000	0.000000
1987	9	15	0	0	0.000000	-56.300000	0.000000
1987	9	16	0	0	0.000000	-249.800000	0.000000
1987	9	17	0	0	0.000000	-304.220000	0.000000
1987	9	18	0	0	0.000000	-271.300000	0.000000
1987	9	19	0	0	0.000000	-53.610000	0.000000
1987	9	20	0	0	0.000000	-73.100000	0.000000
1987	9	21	0	0	0.000000	-57.650000	0.000000
1987	9	22	0	0	0.000000	-205.460000	0.000000
1987	9	23	0	0	0.000000	-199.410000	0.000000
1987	9	24	0	0	0.000000	-290.780000	0.000000
1987	9	25	0	0	0.000000	-87.210000	0.000000
1987	9	26	0	0	0.000000	-20.000000	0.000000
1987	9	27	0	0	0.000000	-20.000000	0.000000
1987	9	28	0	0	0.000000	-168.500000	0.000000
1987	9	29	0	0	0.000000	-28.080000	0.000000
1987	9	30	0	0	0.000000	-20.000000	0.000000
1987	10	1	0	0	0.000000	-20.000000	0.000000
1987	10	2	0	0	0.000000	-75.790000	0.000000
1987	10	3	0	0	0.000000	-20.000000	0.000000
1987	10	4	0	0	0.000000	-54.960000	0.000000
1987	10	5	0	0	0.000000	-20.000000	0.000000
1987	10	6	0	0	0.000000	-20.000000	0.000000
1987	10	7	0	0	0.000000	-71.750000	0.000000
1987	10	8	0	0	0.000000	-112.740000	0.000000
1987	10	9	0	0	0.000000	-243.080000	0.000000
1987	10	10	0	0	0.000000	-575.650000	0.000000
1987	10	11	0	0	0.000000	-157.750000	0.000000
1987	10	12	0	0	0.000000	-275.330000	0.000000
1987	10	13	0	0	0.000000	-615.960000	0.000000
1987	10	14	0	0	0.000000	-415.080000	0.000000
1987	10	15	0	0	0.000000	-361.330000	0.000000
1987	10	16	0	0	0.000000	-347.890000	0.000000
1987	10	17	0	0	0.000000	-276.670000	0.000000
1987	10	18	0	0	0.000000	-20.000000	0.000000
1987	10	19	0	0	0.000000	-362.000000	0.000000
1987	10	20	0	0	0.000000	-459.420000	0.000000
1987	10	21	0	0	0.000000	-20.000000	0.000000
1987	10	22	0	0	0.000000	-20.000000	0.000000
1987	10	23	0	0	0.000000	-450.690000	0.000000
1987	10	24	0	0	0.000000	-81.830000	0.000000
1987	10	25	0	0	0.000000	-20.000000	0.000000
1987	10	26	0	0	0.000000	-20.000000	0.000000
1987	10	27	0	0	0.000000	-242.410000	0.000000
1987	10	28	0	0	0.000000	-167.830000	0.000000
1987	10	29	0	0	0.000000	-217.550000	0.000000
1987	10	30	0	0	0.000000	-386.860000	0.000000
1987	10	31	0	0	0.000000	-228.970000	0.000000
1987	11	1	0	0	0.000000	-20.000000	0.000000
1987	11	2	0	0	0.000000	-20.000000	0.000000
1987	11	3	0	0	0.000000	-23.380000	0.000000
1987	11	4	0	0	0.000000	-106.020000	0.000000
1987	11	5	0	0	0.000000	-159.100000	0.000000
1987	11	6	0	0	0.000000	-254.500000	0.000000
1987	11	7	0	0	0.000000	-20.000000	0.000000
1987	11	8	0	0	0.000000	-20.000000	0.000000
1987	11	9	0	0	0.000000	-91.240000	0.000000
1987	11	10	0	0	0.000000	-344.530000	0.000000

1987	11	11	0	0	0.000000	-20.000000	0.000000
1987	11	12	0	0	0.000000	-193.360000	0.000000
1987	11	13	0	0	0.000000	-321.690000	0.000000
1987	11	14	0	0	0.000000	-20.000000	0.000000
1987	11	15	0	0	0.000000	-54.290000	0.000000
1987	11	16	0	0	0.000000	-429.860000	0.000000
1987	11	17	0	0	0.000000	-476.220000	0.000000
1987	11	18	0	0	0.000000	-298.170000	0.000000
1987	11	19	0	0	0.000000	-39.510000	0.000000
1987	11	20	0	0	0.000000	-89.220000	0.000000
1987	11	21	0	0	0.000000	-20.000000	0.000000
1987	11	22	0	0	0.000000	-20.000000	0.000000
1987	11	23	0	0	0.000000	-251.140000	0.000000
1987	11	24	0	0	0.000000	-414.400000	0.000000
1987	11	25	0	0	0.000000	-315.640000	0.000000
1987	11	26	0	0	0.000000	-20.000000	0.000000
1987	11	27	0	0	0.000000	-1207.200000	0.000000
1987	11	28	0	0	0.000000	-2033.590000	0.000000
1987	11	29	0	0	0.000000	-538.030000	0.000000
1987	11	30	0	0	0.000000	-575.650000	0.000000
1987	12	1	0	0	0.000000	-669.710000	0.000000
1987	12	2	0	0	0.000000	-527.950000	0.000000
1987	12	3	0	0	0.000000	-448.670000	0.000000
1987	12	4	0	0	0.000000	-366.030000	0.000000
1987	12	5	0	0	0.000000	-20.000000	0.000000
1987	12	6	0	0	0.000000	-20.000000	0.000000
1987	12	7	0	0	0.000000	-415.080000	0.000000
1987	12	8	0	0	0.000000	-898.150000	0.000000
1987	12	9	0	0	0.000000	-683.150000	0.000000
1987	12	10	0	0	0.000000	-460.760000	0.000000
1987	12	11	0	0	0.000000	-282.720000	0.000000
1987	12	12	0	0	0.000000	-24.720000	0.000000
1987	12	13	0	0	0.000000	-75.790000	0.000000
1987	12	14	0	0	0.000000	-20.000000	0.000000
1987	12	15	0	0	0.000000	-20.000000	0.000000
1987	12	16	0	0	0.000000	-165.140000	0.000000
1987	12	17	0	0	0.000000	-143.640000	0.000000
1987	12	18	0	0	0.000000	-176.570000	0.000000
1987	12	19	0	0	0.000000	-87.210000	0.000000
1987	12	20	0	0	0.000000	-589.090000	0.000000
1987	12	21	0	0	0.000000	-387.530000	0.000000
1987	12	22	0	0	0.000000	-469.500000	0.000000
1987	12	23	0	0	0.000000	-372.080000	0.000000
1987	12	24	0	0	0.000000	-398.950000	0.000000
1987	12	25	0	0	0.000000	-20.000000	0.000000
1987	12	26	0	0	0.000000	-77.130000	0.000000
1987	12	27	0	0	0.000000	-26.740000	0.000000
1987	12	28	0	0	0.000000	-286.080000	0.000000
1987	12	29	0	0	0.000000	-197.390000	0.000000
1987	12	30	0	0	0.000000	-161.110000	0.000000
1987	12	31	0	0	0.000000	-77.800000	0.000000
1988	1	1	0	0	0.000000	-333.780000	0.000000
1988	1	2	0	0	0.000000	-696.590000	0.000000
1988	1	3	0	0	0.000000	-193.360000	0.000000
1988	1	4	0	0	0.000000	-437.920000	0.000000
1988	1	5	0	0	0.000000	-205.460000	0.000000
1988	1	6	0	0	0.000000	-112.740000	0.000000
1988	1	7	0	0	0.000000	-198.740000	0.000000
1988	1	8	0	0	0.000000	-394.920000	0.000000
1988	1	9	0	0	0.000000	-274.660000	0.000000
1988	1	10	0	0	0.000000	-20.000000	0.000000
1988	1	11	0	0	0.000000	-171.190000	0.000000
1988	1	12	0	0	0.000000	-370.730000	0.000000
1988	1	13	0	0	0.000000	-186.640000	0.000000
1988	1	14	0	0	0.000000	-165.140000	0.000000
1988	1	15	0	0	0.000000	-228.970000	0.000000
1988	1	16	0	0	0.000000	-218.890000	0.000000
1988	1	17	0	0	0.000000	-70.410000	0.000000
1988	1	18	0	0	0.000000	-99.970000	0.000000
1988	1	19	0	0	0.000000	-184.630000	0.000000
1988	1	20	0	0	0.000000	-91.240000	0.000000
1988	1	21	0	0	0.000000	-140.280000	0.000000
1988	1	22	0	0	0.000000	-212.170000	0.000000
1988	1	23	0	0	0.000000	-20.000000	0.000000
1988	1	24	0	0	0.000000	-20.000000	0.000000
1988	1	25	0	0	0.000000	-386.190000	0.000000
1988	1	26	0	0	0.000000	-221.580000	0.000000
1988	1	27	0	0	0.000000	-52.270000	0.000000
1988	1	28	0	0	0.000000	-228.300000	0.000000
1988	1	29	0	0	0.000000	-58.990000	0.000000
1988	1	30	0	0	0.000000	-20.000000	0.000000
1988	1	31	0	0	0.000000	-20.000000	0.000000
1988	2	1	0	0	0.000000	-335.120000	0.000000
1988	2	2	0	0	0.000000	-433.890000	0.000000
1988	2	3	0	0	0.000000	-513.840000	0.000000
1988	2	4	0	0	0.000000	-255.850000	0.000000
1988	2	5	0	0	0.000000	-378.800000	0.000000
1988	2	6	0	0	0.000000	-53.610000	0.000000
1988	2	7	0	0	0.000000	-20.000000	0.000000
1988	2	8	0	0	0.000000	-283.390000	0.000000
1988	2	9	0	0	0.000000	-20.000000	0.000000
1988	2	10	0	0	0.000000	-20.000000	0.000000
1988	2	11	0	0	0.000000	-273.310000	0.000000
1988	2	12	0	0	0.000000	-278.020000	0.000000
1988	2	13	0	0	0.000000	-111.390000	0.000000
1988	2	14	0	0	0.000000	-20.000000	0.000000
1988	2	15	0	0	0.000000	-116.770000	0.000000
1988	2	16	0	0	0.000000	-20.000000	0.000000
1988	2	17	0	0	0.000000	-20.000000	0.000000
1988	2	18	0	0	0.000000	-20.000000	0.000000
1988	2	19	0	0	0.000000	-238.380000	0.000000
1988	2	20	0	0	0.000000	-20.000000	0.000000
1988	2	21	0	0	0.000000	-26.070000	0.000000
1988	2	22	0	0	0.000000	-245.100000	0.000000
1988	2	23	0	0	0.000000	-343.190000	0.000000
1988	2	24	0	0	0.000000	-186.640000	0.000000
1988	2	25	0	0	0.000000	-311.610000	0.000000
1988	2	26	0	0	0.000000	-312.280000	0.000000
1988	2	27	0	0	0.000000	-321.690000	0.000000
1988	2	28	0	0	0.000000	-30.100000	0.000000
1988	2	29	0	0	0.000000	-312.280000	0.000000
1988	3	1	0	0	0.000000	-395.590000	0.000000
1988	3	2	0	0	0.000000	-20.000000	0.000000
1988	3	3	0	0	0.000000	-20.000000	0.000000
1988	3	4	0	0	0.000000	-20.000000	0.000000
1988	3	5	0	0	0.000000	-20.000000	0.000000
1988	3	6	0	0	0.000000	-20.000000	0.000000
1988	3	7	0	0	0.000000	-232.330000	0.000000
1988	3	8	0	0	0.000000	-36.820000	0.000000
1988	3	9	0	0	0.000000	-20.000000	0.000000
1988	3	10	0	0	0.000000	-20.000000	0.000000
1988	3	11	0	0	0.000000	-59.660000	0.000000
1988	3	12	0	0	0.000000	-277.340000	0.000000
1988	3	13	0	0	0.000000	-20.000000	0.000000
1988	3	14	0	0	0.000000	-249.130000	0.000000
1988	3	15	0	0	0.000000	-334.450000	0.000000
1988	3	16	0	0	0.000000	-20.000000	0.000000
1988	3	17	0	0	0.000000	-20.000000	0.000000
1988	3	18	0	0	0.000000	-20.000000	0.000000
1988	3	19	0	0	0.000000	-20.000000	0.000000
1988	3	20	0	0	0.000000	-20.000000	0.000000
1988	3	21	0	0	0.000000	-243.080000	0.000000
1988	3	22	0	0	0.000000	-237.030000	0.000000
1988	3	23	0	0	0.000000	-20.000000	0.000000
1988	3	24	0	0	0.000000	-20.000000	0.000000
1988	3	25	0	0	0.000000	-20.000000	0.000000
1988	3	26	0	0	0.000000	-20.000000	0.000000
1988	3	27	0	0	0.000000	-20.000000	0.000000
1988	3	28	0	0	0.000000	-20.000000	0.000000
1988	3	29	0	0	0.000000	-20.000000	0.000000

1988	3	30	0	0	0.000000	-250.470000	0.000000
1988	3	31	0	0	0.000000	-85.860000	0.000000
1988	4	1	0	0	0.000000	-20.000000	0.000000
1988	4	2	0	0	0.000000	-20.000000	0.000000
1988	4	3	0	0	0.000000	-20.000000	0.000000
1988	4	4	0	0	0.000000	-137.600000	0.000000
1988	4	5	0	0	0.000000	-46.220000	0.000000
1988	4	6	0	0	0.000000	-115.430000	0.000000
1988	4	7	0	0	0.000000	-20.000000	0.000000
1988	4	8	0	0	0.000000	-20.000000	0.000000
1988	4	9	0	0	0.000000	-130.880000	0.000000
1988	4	10	0	0	0.000000	-245.770000	0.000000
1988	4	11	0	0	0.000000	-175.220000	0.000000
1988	4	12	0	0	0.000000	-20.000000	0.000000
1988	4	13	0	0	0.000000	-224.270000	0.000000
1988	4	14	0	0	0.000000	-162.460000	0.000000
1988	4	15	0	0	0.000000	-122.820000	0.000000
1988	4	16	0	0	0.000000	-226.960000	0.000000
1988	4	17	0	0	0.000000	-110.720000	0.000000
1988	4	18	0	0	0.000000	-200.080000	0.000000
1988	4	19	0	0	0.000000	-335.120000	0.000000
1988	4	20	0	0	0.000000	-509.140000	0.000000
1988	4	21	0	0	0.000000	-817.520000	0.000000
1988	4	22	0	0	0.000000	-804.080000	0.000000
1988	4	23	0	0	0.000000	-343.190000	0.000000
1988	4	24	0	0	0.000000	-228.300000	0.000000
1988	4	25	0	0	0.000000	-20.000000	0.000000
1988	4	26	0	0	0.000000	-20.000000	0.000000
1988	4	27	0	0	0.000000	-324.380000	0.000000
1988	4	28	0	0	0.000000	-269.280000	0.000000
1988	4	29	0	0	0.000000	-420.450000	0.000000
1988	4	30	0	0	0.000000	-562.210000	0.000000
1988	5	1	0	0	0.000000	-174.550000	0.000000
1988	5	2	0	0	0.000000	-350.580000	0.000000
1988	5	3	0	0	0.000000	-20.000000	0.000000
1988	5	4	0	0	0.000000	-256.520000	0.000000
1988	5	5	0	0	0.000000	-239.720000	0.000000
1988	5	6	0	0	0.000000	-111.390000	0.000000
1988	5	7	0	0	0.000000	-20.000000	0.000000
1988	5	8	0	0	0.000000	-20.000000	0.000000
1988	5	9	0	0	0.000000	-20.000000	0.000000
1988	5	10	0	0	0.000000	-468.150000	0.000000
1988	5	11	0	0	0.000000	-1193.770000	0.000000
1988	5	12	0	0	0.000000	-736.900000	0.000000
1988	5	13	0	0	0.000000	-710.020000	0.000000
1988	5	14	0	0	0.000000	-160.440000	0.000000
1988	5	15	0	0	0.000000	-20.000000	0.000000
1988	5	16	0	0	0.000000	-178.580000	0.000000
1988	5	17	0	0	0.000000	-282.050000	0.000000
1988	5	18	0	0	0.000000	-319.670000	0.000000
1988	5	19	0	0	0.000000	-378.120000	0.000000
1988	5	20	0	0	0.000000	-20.000000	0.000000
1988	5	21	0	0	0.000000	-267.270000	0.000000
1988	5	22	0	0	0.000000	-452.700000	0.000000
1988	5	23	0	0	0.000000	-267.940000	0.000000
1988	5	24	0	0	0.000000	-20.000000	0.000000
1988	5	25	0	0	0.000000	-20.000000	0.000000
1988	5	26	0	0	0.000000	-20.000000	0.000000
1988	5	27	0	0	0.000000	-20.000000	0.000000
1988	5	28	0	0	0.000000	-20.000000	0.000000
1988	5	29	0	0	0.000000	-20.000000	0.000000
1988	5	30	0	0	0.000000	-89.900000	0.000000
1988	5	31	0	0	0.000000	-32.790000	0.000000
1988	6	1	0	0	0.000000	-20.000000	0.000000
1988	6	2	0	0	0.000000	-20.000000	0.000000
1988	6	3	0	0	0.000000	-20.000000	0.000000
1988	6	4	0	0	0.000000	-20.000000	0.000000
1988	6	5	0	0	0.000000	-20.000000	0.000000
1988	6	6	0	0	0.000000	-20.000000	0.000000
1988	6	7	0	0	0.000000	-91.240000	0.000000
1988	6	8	0	0	0.000000	-20.000000	0.000000
1988	6	9	0	0	0.000000	-106.020000	0.000000
1988	6	10	0	0	0.000000	-138.270000	0.000000
1988	6	11	0	0	0.000000	-20.000000	0.000000
1988	6	12	0	0	0.000000	-20.000000	0.000000
1988	6	13	0	0	0.000000	-20.000000	0.000000
1988	6	14	0	0	0.000000	-20.000000	0.000000
1988	6	15	0	0	0.000000	-20.000000	0.000000
1988	6	16	0	0	0.000000	-20.000000	0.000000
1988	6	17	0	0	0.000000	-182.610000	0.000000
1988	6	18	0	0	0.000000	-20.000000	0.000000
1988	6	19	0	0	0.000000	-20.000000	0.000000
1988	6	20	0	0	0.000000	-20.000000	0.000000
1988	6	21	0	0	0.000000	-55.630000	0.000000
1988	6	22	0	0	0.000000	-214.860000	0.000000
1988	6	23	0	0	0.000000	-288.770000	0.000000
1988	6	24	0	0	0.000000	-200.750000	0.000000
1988	6	25	0	0	0.000000	-20.000000	0.000000
1988	6	26	0	0	0.000000	-20.000000	0.000000
1988	6	27	0	0	0.000000	-20.000000	0.000000
1988	6	28	0	0	0.000000	-394.250000	0.000000
1988	6	29	0	0	0.000000	-170.520000	0.000000
1988	6	30	0	0	0.000000	-20.000000	0.000000
1988	7	1	0	0	0.000000	-20.000000	0.000000
1988	7	2	0	0	0.000000	-20.000000	0.000000
1988	7	3	0	0	0.000000	-433.890000	0.000000
1988	7	4	0	0	0.000000	-149.690000	0.000000
1988	7	5	0	0	0.000000	-232.330000	0.000000
1988	7	6	0	0	0.000000	-20.000000	0.000000
1988	7	7	0	0	0.000000	-283.390000	0.000000
1988	7	8	0	0	0.000000	-43.540000	0.000000
1988	7	9	0	0	0.000000	-456.060000	0.000000
1988	7	10	0	0	0.000000	-85.190000	0.000000
1988	7	11	0	0	0.000000	-20.000000	0.000000
1988	7	12	0	0	0.000000	-20.000000	0.000000
1988	7	13	0	0	0.000000	-146.330000	0.000000
1988	7	14	0	0	0.000000	-20.000000	0.000000
1988	7	15	0	0	0.000000	-225.610000	0.000000
1988	7	16	0	0	0.000000	-20.000000	0.000000
1988	7	17	0	0	0.000000	-20.000000	0.000000
1988	7	18	0	0	0.000000	-20.000000	0.000000
1988	7	19	0	0	0.000000	-20.000000	0.000000
1988	7	20	0	0	0.000000	-95.940000	0.000000
1988	7	21	0	0	0.000000	-36.820000	0.000000
1988	7	22	0	0	0.000000	-173.210000	0.000000
1988	7	23	0	0	0.000000	-136.930000	0.000000
1988	7	24	0	0	0.000000	-20.000000	0.000000
1988	7	25	0	0	0.000000	-20.000000	0.000000
1988	7	26	0	0	0.000000	-156.410000	0.000000
1988	7	27	0	0	0.000000	-20.000000	0.000000
1988	7	28	0	0	0.000000	-185.970000	0.000000
1988	7	29	0	0	0.000000	-20.000000	0.000000
1988	7	30	0	0	0.000000	-112.070000	0.000000
1988	7	31	0	0	0.000000	-20.000000	0.000000
1988	8	1	0	0	0.000000	-180.600000	0.000000
1988	8	2	0	0	0.000000	-63.020000	0.000000
1988	8	3	0	0	0.000000	-20.000000	0.000000
1988	8	4	0	0	0.000000	-20.000000	0.000000
1988	8	5	0	0	0.000000	-20.000000	0.000000
1988	8	6	0	0	0.000000	-95.940000	0.000000
1988	8	7	0	0	0.000000	-20.000000	0.000000
1988	8	8	0	0	0.000000	-157.080000	0.000000
1988	8	9	0	0	0.000000	-42.860000	0.000000
1988	8	10	0	0	0.000000	-20.000000	0.000000
1988	8	11	0	0	0.000000	-20.000000	0.000000
1988	8	12	0	0	0.000000	-20.000000	0.000000
1988	8	13	0	0	0.000000	-20.000000	0.000000
1988	8	14	0	0	0.000000	-20.000000	0.000000
1988	8	15	0	0	0.000000	-20.000000	0.000000
1988	8	16	0	0	0.000000	-83.850000	0.000000

1988	8	17	0	0	0.000000	-20.000000	0.000000
1988	8	18	0	0	0.000000	-280.700000	0.000000
1988	8	19	0	0	0.000000	-20.000000	0.000000
1988	8	20	0	0	0.000000	-401.640000	0.000000
1988	8	21	0	0	0.000000	-91.910000	0.000000
1988	8	22	0	0	0.000000	-20.000000	0.000000
1988	8	23	0	0	0.000000	-248.450000	0.000000
1988	8	24	0	0	0.000000	-134.240000	0.000000
1988	8	25	0	0	0.000000	-1852.190000	0.000000
1988	8	26	0	0	0.000000	-1039.240000	0.000000
1988	8	27	0	0	0.000000	-130.210000	0.000000
1988	8	28	0	0	0.000000	-30.100000	0.000000
1988	8	29	0	0	0.000000	-473.530000	0.000000
1988	8	30	0	0	0.000000	-1106.420000	0.000000
1988	8	31	0	0	0.000000	-519.890000	0.000000
1988	9	1	0	0	0.000000	-34.800000	0.000000
1988	9	2	0	0	0.000000	-20.000000	0.000000
1988	9	3	0	0	0.000000	-36.820000	0.000000
1988	9	4	0	0	0.000000	-533.320000	0.000000
1988	9	5	0	0	0.000000	-50.930000	0.000000
1988	9	6	0	0	0.000000	-20.000000	0.000000
1988	9	7	0	0	0.000000	-20.000000	0.000000
1988	9	8	0	0	0.000000	-36.820000	0.000000
1988	9	9	0	0	0.000000	-354.610000	0.000000
1988	9	10	0	0	0.000000	-347.890000	0.000000
1988	9	11	0	0	0.000000	-206.800000	0.000000
1988	9	12	0	0	0.000000	-146.330000	0.000000
1988	9	13	0	0	0.000000	-20.000000	0.000000
1988	9	14	0	0	0.000000	-20.000000	0.000000
1988	9	15	0	0	0.000000	-20.000000	0.000000
1988	9	16	0	0	0.000000	-155.740000	0.000000
1988	9	17	0	0	0.000000	-152.380000	0.000000
1988	9	18	0	0	0.000000	-20.000000	0.000000
1988	9	19	0	0	0.000000	-247.780000	0.000000
1988	9	20	0	0	0.000000	-447.330000	0.000000
1988	9	21	0	0	0.000000	-534.000000	0.000000
1988	9	22	0	0	0.000000	-662.990000	0.000000
1988	9	23	0	0	0.000000	-546.760000	0.000000
1988	9	24	0	0	0.000000	-380.810000	0.000000
1988	9	25	0	0	0.000000	-237.700000	0.000000
1988	9	26	0	0	0.000000	-483.610000	0.000000
1988	9	27	0	0	0.000000	-398.950000	0.000000
1988	9	28	0	0	0.000000	-478.900000	0.000000
1988	9	29	0	0	0.000000	-425.830000	0.000000
1988	9	30	0	0	0.000000	-376.110000	0.000000
1988	10	1	0	0	0.000000	-505.110000	0.000000
1988	10	2	0	0	0.000000	-437.250000	0.000000
1988	10	3	0	0	0.000000	-489.650000	0.000000
1988	10	4	0	0	0.000000	-20.000000	0.000000
1988	10	5	0	0	0.000000	-24.050000	0.000000
1988	10	6	0	0	0.000000	-20.000000	0.000000
1988	10	7	0	0	0.000000	-50.260000	0.000000
1988	10	8	0	0	0.000000	-278.020000	0.000000
1988	10	9	0	0	0.000000	-123.490000	0.000000
1988	10	10	0	0	0.000000	-279.360000	0.000000
1988	10	11	0	0	0.000000	-320.340000	0.000000
1988	10	12	0	0	0.000000	-20.000000	0.000000
1988	10	13	0	0	0.000000	-249.130000	0.000000
1988	10	14	0	0	0.000000	-56.970000	0.000000
1988	10	15	0	0	0.000000	-71.080000	0.000000
1988	10	16	0	0	0.000000	-20.000000	0.000000
1988	10	17	0	0	0.000000	-20.000000	0.000000
1988	10	18	0	0	0.000000	-20.000000	0.000000
1988	10	19	0	0	0.000000	-33.460000	0.000000
1988	10	20	0	0	0.000000	-20.000000	0.000000
1988	10	21	0	0	0.000000	-328.410000	0.000000
1988	10	22	0	0	0.000000	-398.280000	0.000000
1988	10	23	0	0	0.000000	-636.120000	0.000000
1988	10	24	0	0	0.000000	-470.840000	0.000000
1988	10	25	0	0	0.000000	-20.000000	0.000000
1988	10	26	0	0	0.000000	-20.000000	0.000000
1988	10	27	0	0	0.000000	-20.000000	0.000000
1988	10	28	0	0	0.000000	-191.350000	0.000000
1988	10	29	0	0	0.000000	-225.610000	0.000000
1988	10	30	0	0	0.000000	-517.200000	0.000000
1988	10	31	0	0	0.000000	-1381.890000	0.000000
1988	11	1	0	0	0.000000	-582.370000	0.000000
1988	11	2	0	0	0.000000	-615.960000	0.000000
1988	11	3	0	0	0.000000	-562.210000	0.000000
1988	11	4	0	0	0.000000	-400.300000	0.000000
1988	11	5	0	0	0.000000	-107.360000	0.000000
1988	11	6	0	0	0.000000	-20.000000	0.000000
1988	11	7	0	0	0.000000	-20.000000	0.000000
1988	11	8	0	0	0.000000	-20.000000	0.000000
1988	11	9	0	0	0.000000	-20.000000	0.000000
1988	11	10	0	0	0.000000	-79.150000	0.000000
1988	11	11	0	0	0.000000	-20.000000	0.000000
1988	11	12	0	0	0.000000	-290.110000	0.000000
1988	11	13	0	0	0.000000	-157.750000	0.000000
1988	11	14	0	0	0.000000	-20.000000	0.000000
1988	11	15	0	0	0.000000	-283.390000	0.000000
1988	11	16	0	0	0.000000	-269.950000	0.000000
1988	11	17	0	0	0.000000	-81.160000	0.000000
1988	11	18	0	0	0.000000	-271.300000	0.000000
1988	11	19	0	0	0.000000	-20.000000	0.000000
1988	11	20	0	0	0.000000	-265.920000	0.000000
1988	11	21	0	0	0.000000	-20.000000	0.000000
1988	11	22	0	0	0.000000	-81.830000	0.000000
1988	11	23	0	0	0.000000	-20.000000	0.000000
1988	11	24	0	0	0.000000	-20.000000	0.000000
1988	11	25	0	0	0.000000	-407.010000	0.000000
1988	11	26	0	0	0.000000	-71.080000	0.000000
1988	11	27	0	0	0.000000	-319.000000	0.000000
1988	11	28	0	0	0.000000	-404.330000	0.000000
1988	11	29	0	0	0.000000	-184.630000	0.000000
1988	11	30	0	0	0.000000	-20.000000	0.000000
1988	12	1	0	0	0.000000	-20.000000	0.000000
1988	12	2	0	0	0.000000	-20.000000	0.000000
1988	12	3	0	0	0.000000	-20.000000	0.000000
1988	12	4	0	0	0.000000	-20.000000	0.000000
1988	12	5	0	0	0.000000	-232.330000	0.000000
1988	12	6	0	0	0.000000	-208.140000	0.000000
1988	12	7	0	0	0.000000	-20.000000	0.000000
1988	12	8	0	0	0.000000	-20.000000	0.000000
1988	12	9	0	0	0.000000	-20.000000	0.000000
1988	12	10	0	0	0.000000	-20.000000	0.000000
1988	12	11	0	0	0.000000	-20.000000	0.000000
1988	12	12	0	0	0.000000	-20.000000	0.000000
1988	12	13	0	0	0.000000	-20.000000	0.000000
1988	12	14	0	0	0.000000	-20.000000	0.000000
1988	12	15	0	0	0.000000	-20.000000	0.000000
1988	12	16	0	0	0.000000	-245.770000	0.000000
1988	12	17	0	0	0.000000	-104.680000	0.000000
1988	12	18	0	0	0.000000	-75.790000	0.000000
1988	12	19	0	0	0.000000	-201.420000	0.000000
1988	12	20	0	0	0.000000	-20.000000	0.000000
1988	12	21	0	0	0.000000	-20.000000	0.000000
1988	12	22	0	0	0.000000	-20.000000	0.000000
1988	12	23	0	0	0.000000	-20.000000	0.000000
1988	12	24	0	0	0.000000	-20.000000	0.000000
1988	12	25	0	0	0.000000	-20.000000	0.000000
1988	12	26	0	0	0.000000	-20.000000	0.000000
1988	12	27	0	0	0.000000	-31.440000	0.000000
1988	12	28	0	0	0.000000	-20.000000	0.000000
1988	12	29	0	0	0.000000	-20.000000	0.000000
1988	12	30	0	0	0.000000	-20.000000	0.000000
1988	12	31	0	0	0.000000	-20.000000	0.000000
1989	1	1	0	0	0.000000	-20.000000	0.000000
1989	1	2	0	0	0.000000	-20.000000	0.000000
1989	1	3	0	0	0.000000	-91.240000	0.000000

1989	1	4	0	0	0.000000	-20.000000	0.000000
1989	1	5	0	0	0.000000	-20.000000	0.000000
1989	1	6	0	0	0.000000	-20.000000	0.000000
1989	1	7	0	0	0.000000	-20.000000	0.000000
1989	1	8	0	0	0.000000	-20.000000	0.000000
1989	1	9	0	0	0.000000	-20.000000	0.000000
1989	1	10	0	0	0.000000	-20.000000	0.000000
1989	1	11	0	0	0.000000	-20.000000	0.000000
1989	1	12	0	0	0.000000	-98.630000	0.000000
1989	1	13	0	0	0.000000	-20.000000	0.000000
1989	1	14	0	0	0.000000	-20.000000	0.000000
1989	1	15	0	0	0.000000	-280.700000	0.000000
1989	1	16	0	0	0.000000	-181.270000	0.000000
1989	1	17	0	0	0.000000	-67.050000	0.000000
1989	1	18	0	0	0.000000	-27.410000	0.000000
1989	1	19	0	0	0.000000	-20.000000	0.000000
1989	1	20	0	0	0.000000	-20.000000	0.000000
1989	1	21	0	0	0.000000	-20.000000	0.000000
1989	1	22	0	0	0.000000	-20.000000	0.000000
1989	1	23	0	0	0.000000	-20.000000	0.000000
1989	1	24	0	0	0.000000	-20.000000	0.000000
1989	1	25	0	0	0.000000	-20.000000	0.000000
1989	1	26	0	0	0.000000	-20.000000	0.000000
1989	1	27	0	0	0.000000	-20.000000	0.000000
1989	1	28	0	0	0.000000	-56.970000	0.000000
1989	1	29	0	0	0.000000	-20.000000	0.000000
1989	1	30	0	0	0.000000	-274.660000	0.000000
1989	1	31	0	0	0.000000	-20.000000	0.000000
1989	2	1	0	0	0.000000	-20.000000	0.000000
1989	2	2	0	0	0.000000	-20.000000	0.000000
1989	2	3	0	0	0.000000	-20.000000	0.000000
1989	2	4	0	0	0.000000	-20.000000	0.000000
1989	2	5	0	0	0.000000	-20.000000	0.000000
1989	2	6	0	0	0.000000	-117.440000	0.000000
1989	2	7	0	0	0.000000	-378.120000	0.000000
1989	2	8	0	0	0.000000	-61.010000	0.000000
1989	2	9	0	0	0.000000	-20.000000	0.000000
1989	2	10	0	0	0.000000	-132.220000	0.000000
1989	2	11	0	0	0.000000	-20.000000	0.000000
1989	2	12	0	0	0.000000	-27.410000	0.000000
1989	2	13	0	0	0.000000	-198.740000	0.000000
1989	2	14	0	0	0.000000	-20.000000	0.000000
1989	2	15	0	0	0.000000	-312.950000	0.000000
1989	2	16	0	0	0.000000	-108.710000	0.000000
1989	2	17	0	0	0.000000	-90.570000	0.000000
1989	2	18	0	0	0.000000	-20.000000	0.000000
1989	2	19	0	0	0.000000	-20.000000	0.000000
1989	2	20	0	0	0.000000	-20.000000	0.000000
1989	2	21	0	0	0.000000	-20.000000	0.000000
1989	2	22	0	0	0.000000	-40.180000	0.000000
1989	2	23	0	0	0.000000	-339.160000	0.000000
1989	2	24	0	0	0.000000	-20.000000	0.000000
1989	2	25	0	0	0.000000	-20.000000	0.000000
1989	2	26	0	0	0.000000	-20.000000	0.000000
1989	2	27	0	0	0.000000	-91.910000	0.000000
1989	2	28	0	0	0.000000	-204.110000	0.000000
1989	3	1	0	0	0.000000	-20.000000	0.000000
1989	3	2	0	0	0.000000	-20.000000	0.000000
1989	3	3	0	0	0.000000	-20.000000	0.000000
1989	3	4	0	0	0.000000	-20.000000	0.000000
1989	3	5	0	0	0.000000	-20.000000	0.000000
1989	3	6	0	0	0.000000	-20.000000	0.000000
1989	3	7	0	0	0.000000	-20.000000	0.000000
1989	3	8	0	0	0.000000	-20.000000	0.000000
1989	3	9	0	0	0.000000	-20.000000	0.000000
1989	3	10	0	0	0.000000	-316.980000	0.000000
1989	3	11	0	0	0.000000	-138.270000	0.000000
1989	3	12	0	0	0.000000	-20.000000	0.000000
1989	3	13	0	0	0.000000	-48.240000	0.000000
1989	3	14	0	0	0.000000	-20.000000	0.000000
1989	3	15	0	0	0.000000	-20.000000	0.000000
1989	3	16	0	0	0.000000	-20.000000	0.000000
1989	3	17	0	0	0.000000	-20.000000	0.000000
1989	3	18	0	0	0.000000	-20.000000	0.000000
1989	3	19	0	0	0.000000	-20.000000	0.000000
1989	3	20	0	0	0.000000	-112.740000	0.000000
1989	3	21	0	0	0.000000	-20.000000	0.000000
1989	3	22	0	0	0.000000	-20.000000	0.000000
1989	3	23	0	0	0.000000	-20.000000	0.000000
1989	3	24	0	0	0.000000	-20.000000	0.000000
1989	3	25	0	0	0.000000	-95.940000	0.000000
1989	3	26	0	0	0.000000	-145.660000	0.000000
1989	3	27	0	0	0.000000	-140.280000	0.000000
1989	3	28	0	0	0.000000	-175.890000	0.000000
1989	3	29	0	0	0.000000	-210.160000	0.000000
1989	3	30	0	0	0.000000	-169.170000	0.000000
1989	3	31	0	0	0.000000	-137.600000	0.000000
1989	4	1	0	0	0.000000	-20.000000	0.000000
1989	4	2	0	0	0.000000	-211.500000	0.000000
1989	4	3	0	0	0.000000	-210.830000	0.000000
1989	4	4	0	0	0.000000	-168.500000	0.000000
1989	4	5	0	0	0.000000	-261.890000	0.000000
1989	4	6	0	0	0.000000	-198.070000	0.000000
1989	4	7	0	0	0.000000	-259.880000	0.000000
1989	4	8	0	0	0.000000	-192.690000	0.000000
1989	4	9	0	0	0.000000	-20.000000	0.000000
1989	4	10	0	0	0.000000	-327.060000	0.000000
1989	4	11	0	0	0.000000	-414.400000	0.000000
1989	4	12	0	0	0.000000	-90.570000	0.000000
1989	4	13	0	0	0.000000	-20.000000	0.000000
1989	4	14	0	0	0.000000	-20.000000	0.000000
1989	4	15	0	0	0.000000	-126.850000	0.000000
1989	4	16	0	0	0.000000	-153.050000	0.000000
1989	4	17	0	0	0.000000	-58.990000	0.000000
1989	4	18	0	0	0.000000	-147.680000	0.000000
1989	4	19	0	0	0.000000	-351.920000	0.000000
1989	4	20	0	0	0.000000	-359.310000	0.000000
1989	4	21	0	0	0.000000	-206.800000	0.000000
1989	4	22	0	0	0.000000	-75.110000	0.000000
1989	4	23	0	0	0.000000	-20.000000	0.000000
1989	4	24	0	0	0.000000	-215.530000	0.000000
1989	4	25	0	0	0.000000	-20.000000	0.000000
1989	4	26	0	0	0.000000	-170.520000	0.000000
1989	4	27	0	0	0.000000	-89.900000	0.000000
1989	4	28	0	0	0.000000	-66.380000	0.000000
1989	4	29	0	0	0.000000	-150.360000	0.000000
1989	4	30	0	0	0.000000	-20.000000	0.000000
1989	5	1	0	0	0.000000	-63.020000	0.000000
1989	5	2	0	0	0.000000	-20.000000	0.000000
1989	5	3	0	0	0.000000	-20.000000	0.000000
1989	5	4	0	0	0.000000	-20.000000	0.000000
1989	5	5	0	0	0.000000	-20.000000	0.000000
1989	5	6	0	0	0.000000	-20.000000	0.000000
1989	5	7	0	0	0.000000	-20.000000	0.000000
1989	5	8	0	0	0.000000	-76.460000	0.000000
1989	5	9	0	0	0.000000	-20.000000	0.000000
1989	5	10	0	0	0.000000	-20.000000	0.000000
1989	5	11	0	0	0.000000	-101.320000	0.000000
1989	5	12	0	0	0.000000	-177.240000	0.000000
1989	5	13	0	0	0.000000	-20.000000	0.000000
1989	5	14	0	0	0.000000	-20.000000	0.000000
1989	5	15	0	0	0.000000	-212.170000	0.000000
1989	5	16	0	0	0.000000	-126.180000	0.000000
1989	5	17	0	0	0.000000	-46.900000	0.000000
1989	5	18	0	0	0.000000	-20.000000	0.000000
1989	5	19	0	0	0.000000	-20.000000	0.000000
1989	5	20	0	0	0.000000	-20.000000	0.000000
1989	5	21	0	0	0.000000	-20.000000	0.000000
1989	5	22	0	0	0.000000	-220.910000	0.000000
1989	5	23	0	0	0.000000	-20.000000	0.000000

1989	5	24	0	0	0.000000	-20.000000	0.000000
1989	5	25	0	0	0.000000	-20.000000	0.000000
1989	5	26	0	0	0.000000	-20.000000	0.000000
1989	5	27	0	0	0.000000	-20.000000	0.000000
1989	5	28	0	0	0.000000	-20.000000	0.000000
1989	5	29	0	0	0.000000	-20.000000	0.000000
1989	5	30	0	0	0.000000	-279.360000	0.000000
1989	5	31	0	0	0.000000	-192.020000	0.000000
1989	6	1	0	0	0.000000	-420.450000	0.000000
1989	6	2	0	0	0.000000	-466.810000	0.000000
1989	6	3	0	0	0.000000	-80.490000	0.000000
1989	6	4	0	0	0.000000	-52.270000	0.000000
1989	6	5	0	0	0.000000	-389.550000	0.000000
1989	6	6	0	0	0.000000	-269.950000	0.000000
1989	6	7	0	0	0.000000	-289.440000	0.000000
1989	6	8	0	0	0.000000	-20.000000	0.000000
1989	6	9	0	0	0.000000	-20.000000	0.000000
1989	6	10	0	0	0.000000	-20.000000	0.000000
1989	6	11	0	0	0.000000	-171.860000	0.000000
1989	6	12	0	0	0.000000	-20.000000	0.000000
1989	6	13	0	0	0.000000	-20.000000	0.000000
1989	6	14	0	0	0.000000	-20.000000	0.000000
1989	6	15	0	0	0.000000	-20.000000	0.000000
1989	6	16	0	0	0.000000	-20.000000	0.000000
1989	6	17	0	0	0.000000	-20.000000	0.000000
1989	6	18	0	0	0.000000	-20.000000	0.000000
1989	6	19	0	0	0.000000	-81.830000	0.000000
1989	6	20	0	0	0.000000	-20.000000	0.000000
1989	6	21	0	0	0.000000	-195.380000	0.000000
1989	6	22	0	0	0.000000	-283.390000	0.000000
1989	6	23	0	0	0.000000	-281.380000	0.000000
1989	6	24	0	0	0.000000	-20.000000	0.000000
1989	6	25	0	0	0.000000	-20.000000	0.000000
1989	6	26	0	0	0.000000	-216.210000	0.000000
1989	6	27	0	0	0.000000	-20.000000	0.000000
1989	6	28	0	0	0.000000	-20.000000	0.000000
1989	6	29	0	0	0.000000	-20.000000	0.000000
1989	6	30	0	0	0.000000	-20.000000	0.000000
1989	7	1	0	0	0.000000	-20.000000	0.000000
1989	7	2	0	0	0.000000	-20.000000	0.000000
1989	7	3	0	0	0.000000	-20.000000	0.000000
1989	7	4	0	0	0.000000	-20.000000	0.000000
1989	7	5	0	0	0.000000	-20.000000	0.000000
1989	7	6	0	0	0.000000	-138.270000	0.000000
1989	7	7	0	0	0.000000	-200.750000	0.000000
1989	7	8	0	0	0.000000	-20.000000	0.000000
1989	7	9	0	0	0.000000	-323.030000	0.000000
1989	7	10	0	0	0.000000	-106.690000	0.000000
1989	7	11	0	0	0.000000	-20.000000	0.000000
1989	7	12	0	0	0.000000	-83.850000	0.000000
1989	7	13	0	0	0.000000	-216.880000	0.000000
1989	7	14	0	0	0.000000	-264.580000	0.000000
1989	7	15	0	0	0.000000	-341.840000	0.000000
1989	7	16	0	0	0.000000	-44.880000	0.000000
1989	7	17	0	0	0.000000	-243.750000	0.000000
1989	7	18	0	0	0.000000	-316.980000	0.000000
1989	7	19	0	0	0.000000	-20.000000	0.000000
1989	7	20	0	0	0.000000	-114.750000	0.000000
1989	7	21	0	0	0.000000	-222.250000	0.000000
1989	7	22	0	0	0.000000	-20.000000	0.000000
1989	7	23	0	0	0.000000	-20.000000	0.000000
1989	7	24	0	0	0.000000	-20.000000	0.000000
1989	7	25	0	0	0.000000	-20.000000	0.000000
1989	7	26	0	0	0.000000	-56.970000	0.000000
1989	7	27	0	0	0.000000	-20.000000	0.000000
1989	7	28	0	0	0.000000	-20.000000	0.000000
1989	7	29	0	0	0.000000	-20.000000	0.000000
1989	7	30	0	0	0.000000	-20.000000	0.000000
1989	7	31	0	0	0.000000	-20.000000	0.000000
1989	8	1	0	0	0.000000	-224.270000	0.000000
1989	8	2	0	0	0.000000	-336.470000	0.000000
1989	8	3	0	0	0.000000	-156.410000	0.000000
1989	8	4	0	0	0.000000	-233.000000	0.000000
1989	8	5	0	0	0.000000	-255.850000	0.000000
1989	8	6	0	0	0.000000	-20.000000	0.000000
1989	8	7	0	0	0.000000	-182.610000	0.000000
1989	8	8	0	0	0.000000	-54.290000	0.000000
1989	8	9	0	0	0.000000	-167.830000	0.000000
1989	8	10	0	0	0.000000	-278.020000	0.000000
1989	8	11	0	0	0.000000	-20.000000	0.000000
1989	8	12	0	0	0.000000	-20.000000	0.000000
1989	8	13	0	0	0.000000	-20.000000	0.000000
1989	8	14	0	0	0.000000	-20.000000	0.000000
1989	8	15	0	0	0.000000	-20.000000	0.000000
1989	8	16	0	0	0.000000	-20.000000	0.000000
1989	8	17	0	0	0.000000	-20.000000	0.000000
1989	8	18	0	0	0.000000	-20.000000	0.000000
1989	8	19	0	0	0.000000	-20.000000	0.000000
1989	8	20	0	0	0.000000	-20.000000	0.000000
1989	8	21	0	0	0.000000	-66.380000	0.000000
1989	8	22	0	0	0.000000	-485.620000	0.000000
1989	8	23	0	0	0.000000	-214.860000	0.000000
1989	8	24	0	0	0.000000	-322.360000	0.000000
1989	8	25	0	0	0.000000	-54.960000	0.000000
1989	8	26	0	0	0.000000	-20.000000	0.000000
1989	8	27	0	0	0.000000	-20.000000	0.000000
1989	8	28	0	0	0.000000	-41.520000	0.000000
1989	8	29	0	0	0.000000	-20.000000	0.000000
1989	8	30	0	0	0.000000	-183.960000	0.000000
1989	8	31	0	0	0.000000	-349.230000	0.000000
1989	9	1	0	0	0.000000	-427.170000	0.000000
1989	9	2	0	0	0.000000	-20.000000	0.000000
1989	9	3	0	0	0.000000	-20.000000	0.000000
1989	9	4	0	0	0.000000	-78.470000	0.000000
1989	9	5	0	0	0.000000	-328.410000	0.000000
1989	9	6	0	0	0.000000	-405.000000	0.000000
1989	9	7	0	0	0.000000	-65.040000	0.000000
1989	9	8	0	0	0.000000	-34.130000	0.000000
1989	9	9	0	0	0.000000	-20.000000	0.000000
1989	9	10	0	0	0.000000	-20.000000	0.000000
1989	9	11	0	0	0.000000	-951.890000	0.000000
1989	9	12	0	0	0.000000	-434.560000	0.000000
1989	9	13	0	0	0.000000	-189.330000	0.000000
1989	9	14	0	0	0.000000	-140.960000	0.000000
1989	9	15	0	0	0.000000	-669.710000	0.000000
1989	9	16	0	0	0.000000	-595.810000	0.000000
1989	9	17	0	0	0.000000	-484.950000	0.000000
1989	9	18	0	0	0.000000	-830.960000	0.000000
1989	9	19	0	0	0.000000	-636.120000	0.000000
1989	9	20	0	0	0.000000	-278.690000	0.000000
1989	9	21	0	0	0.000000	-194.710000	0.000000
1989	9	22	0	0	0.000000	-292.130000	0.000000
1989	9	23	0	0	0.000000	-306.910000	0.000000
1989	9	24	0	0	0.000000	-528.620000	0.000000
1989	9	25	0	0	0.000000	-649.560000	0.000000
1989	9	26	0	0	0.000000	-353.270000	0.000000
1989	9	27	0	0	0.000000	-419.110000	0.000000
1989	9	28	0	0	0.000000	-489.650000	0.000000
1989	9	29	0	0	0.000000	-440.610000	0.000000
1989	9	30	0	0	0.000000	-421.800000	0.000000
1989	10	1	0	0	0.000000	-763.770000	0.000000
1989	10	2	0	0	0.000000	-743.620000	0.000000
1989	10	3	0	0	0.000000	-1099.700000	0.000000
1989	10	4	0	0	0.000000	-837.680000	0.000000
1989	10	5	0	0	0.000000	-1025.800000	0.000000
1989	10	6	0	0	0.000000	-958.610000	0.000000
1989	10	7	0	0	0.000000	-506.450000	0.000000
1989	10	8	0	0	0.000000	-476.890000	0.000000
1989	10	9	0	0	0.000000	-438.590000	0.000000
1989	10	10	0	0	0.000000	-359.310000	0.000000

1989	10	11	0	0	0.000000	-464.120000	0.000000
1989	10	12	0	0	0.000000	-416.420000	0.000000
1989	10	13	0	0	0.000000	-491.000000	0.000000
1989	10	14	0	0	0.000000	-257.860000	0.000000
1989	10	15	0	0	0.000000	-31.440000	0.000000
1989	10	16	0	0	0.000000	-186.640000	0.000000
1989	10	17	0	0	0.000000	-204.110000	0.000000
1989	10	18	0	0	0.000000	-931.740000	0.000000
1989	10	19	0	0	0.000000	-398.280000	0.000000
1989	10	20	0	0	0.000000	-568.930000	0.000000
1989	10	21	0	0	0.000000	-582.370000	0.000000
1989	10	22	0	0	0.000000	-1005.640000	0.000000
1989	10	23	0	0	0.000000	-1213.920000	0.000000
1989	10	24	0	0	0.000000	-1039.240000	0.000000
1989	10	25	0	0	0.000000	-851.120000	0.000000
1989	10	26	0	0	0.000000	-448.000000	0.000000
1989	10	27	0	0	0.000000	-444.640000	0.000000
1989	10	28	0	0	0.000000	-319.000000	0.000000
1989	10	29	0	0	0.000000	-454.720000	0.000000
1989	10	30	0	0	0.000000	-830.960000	0.000000
1989	10	31	0	0	0.000000	-589.090000	0.000000
1989	11	1	0	0	0.000000	-743.620000	0.000000
1989	11	2	0	0	0.000000	-669.710000	0.000000
1989	11	3	0	0	0.000000	-703.310000	0.000000
1989	11	4	0	0	0.000000	-20.000000	0.000000
1989	11	5	0	0	0.000000	-20.000000	0.000000
1989	11	6	0	0	0.000000	-20.000000	0.000000
1989	11	7	0	0	0.000000	-435.900000	0.000000
1989	11	8	0	0	0.000000	-602.530000	0.000000
1989	11	9	0	0	0.000000	-401.640000	0.000000
1989	11	10	0	0	0.000000	-391.560000	0.000000
1989	11	11	0	0	0.000000	-206.130000	0.000000
1989	11	12	0	0	0.000000	-24.720000	0.000000
1989	11	13	0	0	0.000000	-27.410000	0.000000
1989	11	14	0	0	0.000000	-387.530000	0.000000
1989	11	15	0	0	0.000000	-468.150000	0.000000
1989	11	16	0	0	0.000000	-374.090000	0.000000
1989	11	17	0	0	0.000000	-445.310000	0.000000
1989	11	18	0	0	0.000000	-312.950000	0.000000
1989	11	19	0	0	0.000000	-402.980000	0.000000
1989	11	20	0	0	0.000000	-185.300000	0.000000
1989	11	21	0	0	0.000000	-382.160000	0.000000
1989	11	22	0	0	0.000000	-363.340000	0.000000
1989	11	23	0	0	0.000000	-69.740000	0.000000
1989	11	24	0	0	0.000000	-115.430000	0.000000
1989	11	25	0	0	0.000000	-110.720000	0.000000
1989	11	26	0	0	0.000000	-51.600000	0.000000
1989	11	27	0	0	0.000000	-20.000000	0.000000
1989	11	28	0	0	0.000000	-328.410000	0.000000
1989	11	29	0	0	0.000000	-417.090000	0.000000
1989	11	30	0	0	0.000000	-437.250000	0.000000
1989	12	1	0	0	0.000000	-124.160000	0.000000
1989	12	2	0	0	0.000000	-20.000000	0.000000
1989	12	3	0	0	0.000000	-20.000000	0.000000
1989	12	4	0	0	0.000000	-409.700000	0.000000
1989	12	5	0	0	0.000000	-396.940000	0.000000
1989	12	6	0	0	0.000000	-167.830000	0.000000
1989	12	7	0	0	0.000000	-300.860000	0.000000
1989	12	8	0	0	0.000000	-519.890000	0.000000
1989	12	9	0	0	0.000000	-20.000000	0.000000
1989	12	10	0	0	0.000000	-20.000000	0.000000
1989	12	11	0	0	0.000000	-76.460000	0.000000
1989	12	12	0	0	0.000000	-50.260000	0.000000
1989	12	13	0	0	0.000000	-126.850000	0.000000
1989	12	14	0	0	0.000000	-192.690000	0.000000
1989	12	15	0	0	0.000000	-20.000000	0.000000
1989	12	16	0	0	0.000000	-277.340000	0.000000
1989	12	17	0	0	0.000000	-63.690000	0.000000
1989	12	18	0	0	0.000000	-278.690000	0.000000
1989	12	19	0	0	0.000000	-45.550000	0.000000
1989	12	20	0	0	0.000000	-20.000000	0.000000
1989	12	21	0	0	0.000000	-20.000000	0.000000
1989	12	22	0	0	0.000000	-20.000000	0.000000
1989	12	23	0	0	0.000000	-20.000000	0.000000
1989	12	24	0	0	0.000000	-20.000000	0.000000
1989	12	25	0	0	0.000000	-20.000000	0.000000
1989	12	26	0	0	0.000000	-126.180000	0.000000
1989	12	27	0	0	0.000000	-55.630000	0.000000
1989	12	28	0	0	0.000000	-20.000000	0.000000
1989	12	29	0	0	0.000000	-20.000000	0.000000
1989	12	30	0	0	0.000000	-20.000000	0.000000
1989	12	31	0	0	0.000000	-20.000000	0.000000
1990	1	1	0	0	0.000000	-20.000000	0.000000
1990	1	2	0	0	0.000000	-20.000000	0.000000
1990	1	3	0	0	0.000000	-310.270000	0.000000
1990	1	4	0	0	0.000000	-226.280000	0.000000
1990	1	5	0	0	0.000000	-20.000000	0.000000
1990	1	6	0	0	0.000000	-77.130000	0.000000
1990	1	7	0	0	0.000000	-44.210000	0.000000
1990	1	8	0	0	0.000000	-20.000000	0.000000
1990	1	9	0	0	0.000000	-80.490000	0.000000
1990	1	10	0	0	0.000000	-128.190000	0.000000
1990	1	11	0	0	0.000000	-176.570000	0.000000
1990	1	12	0	0	0.000000	-271.970000	0.000000
1990	1	13	0	0	0.000000	-20.000000	0.000000
1990	1	14	0	0	0.000000	-21.370000	0.000000
1990	1	15	0	0	0.000000	-20.000000	0.000000
1990	1	16	0	0	0.000000	-255.170000	0.000000
1990	1	17	0	0	0.000000	-20.000000	0.000000
1990	1	18	0	0	0.000000	-20.000000	0.000000
1990	1	19	0	0	0.000000	-20.000000	0.000000
1990	1	20	0	0	0.000000	-20.000000	0.000000
1990	1	21	0	0	0.000000	-20.000000	0.000000
1990	1	22	0	0	0.000000	-20.000000	0.000000
1990	1	23	0	0	0.000000	-20.000000	0.000000
1990	1	24	0	0	0.000000	-20.000000	0.000000
1990	1	25	0	0	0.000000	-20.000000	0.000000
1990	1	26	0	0	0.000000	-20.000000	0.000000
1990	1	27	0	0	0.000000	-20.000000	0.000000
1990	1	28	0	0	0.000000	-20.000000	0.000000
1990	1	29	0	0	0.000000	-20.000000	0.000000
1990	1	30	0	0	0.000000	-69.740000	0.000000
1990	1	31	0	0	0.000000	-20.000000	0.000000
1990	2	1	0	0	0.000000	-20.000000	0.000000
1990	2	2	0	0	0.000000	-20.000000	0.000000
1990	2	3	0	0	0.000000	-20.000000	0.000000
1990	2	4	0	0	0.000000	-20.000000	0.000000
1990	2	5	0	0	0.000000	-20.000000	0.000000
1990	2	6	0	0	0.000000	-20.000000	0.000000
1990	2	7	0	0	0.000000	-20.000000	0.000000
1990	2	8	0	0	0.000000	-28.760000	0.000000
1990	2	9	0	0	0.000000	-20.000000	0.000000
1990	2	10	0	0	0.000000	-20.000000	0.000000
1990	2	11	0	0	0.000000	-20.000000	0.000000
1990	2	12	0	0	0.000000	-20.000000	0.000000
1990	2	13	0	0	0.000000	-20.000000	0.000000
1990	2	14	0	0	0.000000	-154.390000	0.000000
1990	2	15	0	0	0.000000	-20.000000	0.000000
1990	2	16	0	0	0.000000	-20.000000	0.000000
1990	2	17	0	0	0.000000	-20.000000	0.000000
1990	2	18	0	0	0.000000	-20.000000	0.000000
1990	2	19	0	0	0.000000	-201.420000	0.000000
1990	2	20	0	0	0.000000	-20.000000	0.000000
1990	2	21	0	0	0.000000	-23.380000	0.000000
1990	2	22	0	0	0.000000	-81.830000	0.000000
1990	2	23	0	0	0.000000	-20.000000	0.000000
1990	2	24	0	0	0.000000	-20.000000	0.000000
1990	2	25	0	0	0.000000	-20.000000	0.000000
1990	2	26	0	0	0.000000	-20.000000	0.000000
1990	2	27	0	0	0.000000	-20.000000	0.000000

1990	2	28	0	0	0.000000	-20.000000	0.000000
1990	3	1	0	0	0.000000	-20.000000	0.000000
1990	3	2	0	0	0.000000	-20.000000	0.000000
1990	3	3	0	0	0.000000	-20.000000	0.000000
1990	3	4	0	0	0.000000	-44.880000	0.000000
1990	3	5	0	0	0.000000	-20.000000	0.000000
1990	3	6	0	0	0.000000	-20.000000	0.000000
1990	3	7	0	0	0.000000	-20.000000	0.000000
1990	3	8	0	0	0.000000	-20.000000	0.000000
1990	3	9	0	0	0.000000	-44.210000	0.000000
1990	3	10	0	0	0.000000	-272.640000	0.000000
1990	3	11	0	0	0.000000	-63.690000	0.000000
1990	3	12	0	0	0.000000	-69.070000	0.000000
1990	3	13	0	0	0.000000	-77.800000	0.000000
1990	3	14	0	0	0.000000	-99.970000	0.000000
1990	3	15	0	0	0.000000	-448.000000	0.000000
1990	3	16	0	0	0.000000	-217.550000	0.000000
1990	3	17	0	0	0.000000	-20.000000	0.000000
1990	3	18	0	0	0.000000	-20.000000	0.000000
1990	3	19	0	0	0.000000	-20.000000	0.000000
1990	3	20	0	0	0.000000	-459.420000	0.000000
1990	3	21	0	0	0.000000	-30.100000	0.000000
1990	3	22	0	0	0.000000	-20.000000	0.000000
1990	3	23	0	0	0.000000	-20.000000	0.000000
1990	3	24	0	0	0.000000	-232.330000	0.000000
1990	3	25	0	0	0.000000	-20.000000	0.000000
1990	3	26	0	0	0.000000	-20.000000	0.000000
1990	3	27	0	0	0.000000	-20.000000	0.000000
1990	3	28	0	0	0.000000	-20.000000	0.000000
1990	3	29	0	0	0.000000	-20.000000	0.000000
1990	3	30	0	0	0.000000	-61.010000	0.000000
1990	3	31	0	0	0.000000	-149.690000	0.000000
1990	4	1	0	0	0.000000	-192.690000	0.000000
1990	4	2	0	0	0.000000	-118.790000	0.000000
1990	4	3	0	0	0.000000	-353.270000	0.000000
1990	4	4	0	0	0.000000	-20.000000	0.000000
1990	4	5	0	0	0.000000	-20.000000	0.000000
1990	4	6	0	0	0.000000	-23.380000	0.000000
1990	4	7	0	0	0.000000	-159.770000	0.000000
1990	4	8	0	0	0.000000	-37.490000	0.000000
1990	4	9	0	0	0.000000	-20.000000	0.000000
1990	4	10	0	0	0.000000	-20.000000	0.000000
1990	4	11	0	0	0.000000	-20.000000	0.000000
1990	4	12	0	0	0.000000	-20.000000	0.000000
1990	4	13	0	0	0.000000	-20.000000	0.000000
1990	4	14	0	0	0.000000	-20.000000	0.000000
1990	4	15	0	0	0.000000	-50.260000	0.000000
1990	4	16	0	0	0.000000	-20.000000	0.000000
1990	4	17	0	0	0.000000	-37.490000	0.000000
1990	4	18	0	0	0.000000	-23.380000	0.000000
1990	4	19	0	0	0.000000	-196.720000	0.000000
1990	4	20	0	0	0.000000	-220.240000	0.000000
1990	4	21	0	0	0.000000	-20.000000	0.000000
1990	4	22	0	0	0.000000	-20.000000	0.000000
1990	4	23	0	0	0.000000	-87.880000	0.000000
1990	4	24	0	0	0.000000	-210.830000	0.000000
1990	4	25	0	0	0.000000	-176.570000	0.000000
1990	4	26	0	0	0.000000	-175.220000	0.000000
1990	4	27	0	0	0.000000	-257.860000	0.000000
1990	4	28	0	0	0.000000	-246.440000	0.000000
1990	4	29	0	0	0.000000	-230.310000	0.000000
1990	4	30	0	0	0.000000	-270.630000	0.000000
1990	5	1	0	0	0.000000	-22.040000	0.000000
1990	5	2	0	0	0.000000	-20.000000	0.000000
1990	5	3	0	0	0.000000	-88.550000	0.000000
1990	5	4	0	0	0.000000	-174.550000	0.000000
1990	5	5	0	0	0.000000	-20.000000	0.000000
1990	5	6	0	0	0.000000	-74.440000	0.000000
1990	5	7	0	0	0.000000	-274.660000	0.000000
1990	5	8	0	0	0.000000	-104.000000	0.000000
1990	5	9	0	0	0.000000	-225.610000	0.000000
1990	5	10	0	0	0.000000	-82.500000	0.000000
1990	5	11	0	0	0.000000	-183.280000	0.000000
1990	5	12	0	0	0.000000	-20.000000	0.000000
1990	5	13	0	0	0.000000	-20.000000	0.000000
1990	5	14	0	0	0.000000	-261.220000	0.000000
1990	5	15	0	0	0.000000	-269.950000	0.000000
1990	5	16	0	0	0.000000	-20.000000	0.000000
1990	5	17	0	0	0.000000	-235.020000	0.000000
1990	5	18	0	0	0.000000	-256.520000	0.000000
1990	5	19	0	0	0.000000	-20.000000	0.000000
1990	5	20	0	0	0.000000	-20.000000	0.000000
1990	5	21	0	0	0.000000	-20.000000	0.000000
1990	5	22	0	0	0.000000	-73.100000	0.000000
1990	5	23	0	0	0.000000	-20.000000	0.000000
1990	5	24	0	0	0.000000	-20.000000	0.000000
1990	5	25	0	0	0.000000	-20.000000	0.000000
1990	5	26	0	0	0.000000	-20.000000	0.000000
1990	5	27	0	0	0.000000	-20.000000	0.000000
1990	5	28	0	0	0.000000	-20.000000	0.000000
1990	5	29	0	0	0.000000	-20.000000	0.000000
1990	5	30	0	0	0.000000	-67.720000	0.000000
1990	5	31	0	0	0.000000	-20.000000	0.000000
1990	6	1	0	0	0.000000	-20.000000	0.000000
1990	6	2	0	0	0.000000	-20.000000	0.000000
1990	6	3	0	0	0.000000	-20.000000	0.000000
1990	6	4	0	0	0.000000	-20.000000	0.000000
1990	6	5	0	0	0.000000	-20.000000	0.000000
1990	6	6	0	0	0.000000	-165.140000	0.000000
1990	6	7	0	0	0.000000	-20.000000	0.000000
1990	6	8	0	0	0.000000	-138.270000	0.000000
1990	6	9	0	0	0.000000	-20.000000	0.000000
1990	6	10	0	0	0.000000	-34.800000	0.000000
1990	6	11	0	0	0.000000	-107.360000	0.000000
1990	6	12	0	0	0.000000	-169.850000	0.000000
1990	6	13	0	0	0.000000	-196.050000	0.000000
1990	6	14	0	0	0.000000	-113.410000	0.000000
1990	6	15	0	0	0.000000	-20.000000	0.000000
1990	6	16	0	0	0.000000	-20.000000	0.000000
1990	6	17	0	0	0.000000	-20.000000	0.000000
1990	6	18	0	0	0.000000	-163.130000	0.000000
1990	6	19	0	0	0.000000	-159.100000	0.000000
1990	6	20	0	0	0.000000	-102.660000	0.000000
1990	6	21	0	0	0.000000	-20.000000	0.000000
1990	6	22	0	0	0.000000	-20.000000	0.000000
1990	6	23	0	0	0.000000	-20.000000	0.000000
1990	6	24	0	0	0.000000	-20.000000	0.000000
1990	6	25	0	0	0.000000	-20.000000	0.000000
1990	6	26	0	0	0.000000	-103.330000	0.000000
1990	6	27	0	0	0.000000	-143.640000	0.000000
1990	6	28	0	0	0.000000	-20.000000	0.000000
1990	6	29	0	0	0.000000	-20.000000	0.000000
1990	6	30	0	0	0.000000	-20.000000	0.000000
1990	7	1	0	0	0.000000	-20.000000	0.000000
1990	7	2	0	0	0.000000	-20.000000	0.000000
1990	7	3	0	0	0.000000	-20.000000	0.000000
1990	7	4	0	0	0.000000	-20.000000	0.000000
1990	7	5	0	0	0.000000	-20.000000	0.000000
1990	7	6	0	0	0.000000	-20.000000	0.000000
1990	7	7	0	0	0.000000	-20.000000	0.000000
1990	7	8	0	0	0.000000	-20.000000	0.000000
1990	7	9	0	0	0.000000	-20.000000	0.000000
1990	7	10	0	0	0.000000	-59.660000	0.000000
1990	7	11	0	0	0.000000	-42.860000	0.000000
1990	7	12	0	0	0.000000	-20.000000	0.000000
1990	7	13	0	0	0.000000	-109.380000	0.000000
1990	7	14	0	0	0.000000	-20.000000	0.000000
1990	7	15	0	0	0.000000	-20.000000	0.000000
1990	7	16	0	0	0.000000	-161.780000	0.000000
1990	7	17	0	0	0.000000	-54.290000	0.000000

1990	7	18	0	0	0.000000	-97.290000	0.000000
1990	7	19	0	0	0.000000	-171.190000	0.000000
1990	7	20	0	0	0.000000	-245.100000	0.000000
1990	7	21	0	0	0.000000	-20.000000	0.000000
1990	7	22	0	0	0.000000	-20.000000	0.000000
1990	7	23	0	0	0.000000	-20.000000	0.000000
1990	7	24	0	0	0.000000	-20.000000	0.000000
1990	7	25	0	0	0.000000	-20.000000	0.000000
1990	7	26	0	0	0.000000	-162.460000	0.000000
1990	7	27	0	0	0.000000	-43.540000	0.000000
1990	7	28	0	0	0.000000	-20.000000	0.000000
1990	7	29	0	0	0.000000	-20.000000	0.000000
1990	7	30	0	0	0.000000	-157.080000	0.000000
1990	7	31	0	0	0.000000	-20.000000	0.000000
1990	8	1	0	0	0.000000	-20.000000	0.000000
1990	8	2	0	0	0.000000	-20.000000	0.000000
1990	8	3	0	0	0.000000	-20.000000	0.000000
1990	8	4	0	0	0.000000	-20.000000	0.000000
1990	8	5	0	0	0.000000	-20.000000	0.000000
1990	8	6	0	0	0.000000	-153.720000	0.000000
1990	8	7	0	0	0.000000	-20.000000	0.000000
1990	8	8	0	0	0.000000	-20.000000	0.000000
1990	8	9	0	0	0.000000	-20.000000	0.000000
1990	8	10	0	0	0.000000	-20.000000	0.000000
1990	8	11	0	0	0.000000	-20.000000	0.000000
1990	8	12	0	0	0.000000	-20.000000	0.000000
1990	8	13	0	0	0.000000	-95.940000	0.000000
1990	8	14	0	0	0.000000	-115.430000	0.000000
1990	8	15	0	0	0.000000	-20.000000	0.000000
1990	8	16	0	0	0.000000	-20.000000	0.000000
1990	8	17	0	0	0.000000	-20.000000	0.000000
1990	8	18	0	0	0.000000	-20.000000	0.000000
1990	8	19	0	0	0.000000	-20.000000	0.000000
1990	8	20	0	0	0.000000	-20.000000	0.000000
1990	8	21	0	0	0.000000	-20.000000	0.000000
1990	8	22	0	0	0.000000	-50.260000	0.000000
1990	8	23	0	0	0.000000	-33.460000	0.000000
1990	8	24	0	0	0.000000	-192.690000	0.000000
1990	8	25	0	0	0.000000	-44.210000	0.000000
1990	8	26	0	0	0.000000	-20.000000	0.000000
1990	8	27	0	0	0.000000	-179.250000	0.000000
1990	8	28	0	0	0.000000	-196.050000	0.000000
1990	8	29	0	0	0.000000	-20.000000	0.000000
1990	8	30	0	0	0.000000	-20.000000	0.000000
1990	8	31	0	0	0.000000	-20.000000	0.000000
1990	9	1	0	0	0.000000	-20.000000	0.000000
1990	9	2	0	0	0.000000	-20.000000	0.000000
1990	9	3	0	0	0.000000	-20.000000	0.000000
1990	9	4	0	0	0.000000	-108.710000	0.000000
1990	9	5	0	0	0.000000	-229.640000	0.000000
1990	9	6	0	0	0.000000	-308.250000	0.000000
1990	9	7	0	0	0.000000	-139.610000	0.000000
1990	9	8	0	0	0.000000	-20.000000	0.000000
1990	9	9	0	0	0.000000	-129.540000	0.000000
1990	9	10	0	0	0.000000	-423.810000	0.000000
1990	9	11	0	0	0.000000	-393.580000	0.000000
1990	9	12	0	0	0.000000	-243.080000	0.000000
1990	9	13	0	0	0.000000	-253.160000	0.000000
1990	9	14	0	0	0.000000	-201.420000	0.000000
1990	9	15	0	0	0.000000	-114.750000	0.000000
1990	9	16	0	0	0.000000	-20.000000	0.000000
1990	9	17	0	0	0.000000	-174.550000	0.000000
1990	9	18	0	0	0.000000	-196.720000	0.000000
1990	9	19	0	0	0.000000	-164.470000	0.000000
1990	9	20	0	0	0.000000	-58.990000	0.000000
1990	9	21	0	0	0.000000	-167.160000	0.000000
1990	9	22	0	0	0.000000	-118.790000	0.000000
1990	9	23	0	0	0.000000	-112.740000	0.000000
1990	9	24	0	0	0.000000	-163.800000	0.000000
1990	9	25	0	0	0.000000	-280.030000	0.000000
1990	9	26	0	0	0.000000	-228.970000	0.000000
1990	9	27	0	0	0.000000	-270.630000	0.000000
1990	9	28	0	0	0.000000	-252.490000	0.000000
1990	9	29	0	0	0.000000	-288.090000	0.000000
1990	9	30	0	0	0.000000	-61.680000	0.000000
1990	10	1	0	0	0.000000	-399.620000	0.000000
1990	10	2	0	0	0.000000	-284.060000	0.000000
1990	10	3	0	0	0.000000	-301.530000	0.000000
1990	10	4	0	0	0.000000	-335.120000	0.000000
1990	10	5	0	0	0.000000	-314.300000	0.000000
1990	10	6	0	0	0.000000	-46.900000	0.000000
1990	10	7	0	0	0.000000	-20.000000	0.000000
1990	10	8	0	0	0.000000	-314.970000	0.000000
1990	10	9	0	0	0.000000	-82.500000	0.000000
1990	10	10	0	0	0.000000	-797.370000	0.000000
1990	10	11	0	0	0.000000	-415.750000	0.000000
1990	10	12	0	0	0.000000	-310.940000	0.000000
1990	10	13	0	0	0.000000	-235.020000	0.000000
1990	10	14	0	0	0.000000	-275.330000	0.000000
1990	10	15	0	0	0.000000	-433.220000	0.000000
1990	10	16	0	0	0.000000	-609.240000	0.000000
1990	10	17	0	0	0.000000	-985.490000	0.000000
1990	10	18	0	0	0.000000	-1240.800000	0.000000
1990	10	19	0	0	0.000000	-1173.610000	0.000000
1990	10	20	0	0	0.000000	-602.530000	0.000000
1990	10	21	0	0	0.000000	-736.900000	0.000000
1990	10	22	0	0	0.000000	-676.430000	0.000000
1990	10	23	0	0	0.000000	-515.180000	0.000000
1990	10	24	0	0	0.000000	-568.930000	0.000000
1990	10	25	0	0	0.000000	-622.680000	0.000000
1990	10	26	0	0	0.000000	-770.490000	0.000000
1990	10	27	0	0	0.000000	-951.890000	0.000000
1990	10	28	0	0	0.000000	-877.990000	0.000000
1990	10	29	0	0	0.000000	-750.340000	0.000000
1990	10	30	0	0	0.000000	-703.310000	0.000000
1990	10	31	0	0	0.000000	-622.680000	0.000000
1990	11	1	0	0	0.000000	-453.370000	0.000000
1990	11	2	0	0	0.000000	-394.250000	0.000000
1990	11	3	0	0	0.000000	-432.550000	0.000000
1990	11	4	0	0	0.000000	-206.130000	0.000000
1990	11	5	0	0	0.000000	-372.750000	0.000000
1990	11	6	0	0	0.000000	-355.950000	0.000000
1990	11	7	0	0	0.000000	-369.390000	0.000000
1990	11	8	0	0	0.000000	-339.830000	0.000000
1990	11	9	0	0	0.000000	-282.050000	0.000000
1990	11	10	0	0	0.000000	-200.750000	0.000000
1990	11	11	0	0	0.000000	-275.330000	0.000000
1990	11	12	0	0	0.000000	-299.520000	0.000000
1990	11	13	0	0	0.000000	-341.840000	0.000000
1990	11	14	0	0	0.000000	-293.470000	0.000000
1990	11	15	0	0	0.000000	-334.450000	0.000000
1990	11	16	0	0	0.000000	-366.030000	0.000000
1990	11	17	0	0	0.000000	-294.810000	0.000000
1990	11	18	0	0	0.000000	-110.050000	0.000000
1990	11	19	0	0	0.000000	-20.000000	0.000000
1990	11	20	0	0	0.000000	-20.000000	0.000000
1990	11	21	0	0	0.000000	-20.000000	0.000000
1990	11	22	0	0	0.000000	-20.000000	0.000000
1990	11	23	0	0	0.000000	-20.000000	0.000000
1990	11	24	0	0	0.000000	-20.000000	0.000000
1990	11	25	0	0	0.000000	-20.000000	0.000000
1990	11	26	0	0	0.000000	-306.910000	0.000000
1990	11	27	0	0	0.000000	-200.750000	0.000000
1990	11	28	0	0	0.000000	-167.830000	0.000000
1990	11	29	0	0	0.000000	-279.360000	0.000000
1990	11	30	0	0	0.000000	-167.830000	0.000000
1990	12	1	0	0	0.000000	-20.000000	0.000000
1990	12	2	0	0	0.000000	-20.690000	0.000000
1990	12	3	0	0	0.000000	-247.780000	0.000000
1990	12	4	0	0	0.000000	-231.660000	0.000000

1990	12	5	0	0	0.000000	-20.000000	0.000000
1990	12	6	0	0	0.000000	-138.270000	0.000000
1990	12	7	0	0	0.000000	-147.680000	0.000000
1990	12	8	0	0	0.000000	-208.810000	0.000000
1990	12	9	0	0	0.000000	-333.110000	0.000000
1990	12	10	0	0	0.000000	-51.600000	0.000000
1990	12	11	0	0	0.000000	-255.850000	0.000000
1990	12	12	0	0	0.000000	-277.340000	0.000000
1990	12	13	0	0	0.000000	-322.360000	0.000000
1990	12	14	0	0	0.000000	-328.410000	0.000000
1990	12	15	0	0	0.000000	-64.360000	0.000000
1990	12	16	0	0	0.000000	-20.000000	0.000000
1990	12	17	0	0	0.000000	-20.000000	0.000000
1990	12	18	0	0	0.000000	-20.000000	0.000000
1990	12	19	0	0	0.000000	-46.900000	0.000000
1990	12	20	0	0	0.000000	-26.070000	0.000000
1990	12	21	0	0	0.000000	-104.680000	0.000000
1990	12	22	0	0	0.000000	-20.000000	0.000000
1990	12	23	0	0	0.000000	-138.940000	0.000000
1990	12	24	0	0	0.000000	-20.000000	0.000000
1990	12	25	0	0	0.000000	-20.000000	0.000000
1990	12	26	0	0	0.000000	-20.000000	0.000000
1990	12	27	0	0	0.000000	-46.900000	0.000000
1990	12	28	0	0	0.000000	-20.000000	0.000000
1990	12	29	0	0	0.000000	-20.000000	0.000000
1990	12	30	0	0	0.000000	-31.440000	0.000000
1990	12	31	0	0	0.000000	-38.160000	0.000000
1991	1	1	0	0	0.000000	-20.000000	0.000000
1991	1	2	0	0	0.000000	-192.690000	0.000000
1991	1	3	0	0	0.000000	-20.000000	0.000000
1991	1	4	0	0	0.000000	-20.000000	0.000000
1991	1	5	0	0	0.000000	-20.000000	0.000000
1991	1	6	0	0	0.000000	-20.000000	0.000000
1991	1	7	0	0	0.000000	-20.000000	0.000000
1991	1	8	0	0	0.000000	-233.670000	0.000000
1991	1	9	0	0	0.000000	-20.000000	0.000000
1991	1	10	0	0	0.000000	-80.490000	0.000000
1991	1	11	0	0	0.000000	-122.140000	0.000000
1991	1	12	0	0	0.000000	-249.130000	0.000000
1991	1	13	0	0	0.000000	-39.510000	0.000000
1991	1	14	0	0	0.000000	-33.460000	0.000000
1991	1	15	0	0	0.000000	-20.000000	0.000000
1991	1	16	0	0	0.000000	-20.000000	0.000000
1991	1	17	0	0	0.000000	-20.000000	0.000000
1991	1	18	0	0	0.000000	-49.580000	0.000000
1991	1	19	0	0	0.000000	-109.380000	0.000000
1991	1	20	0	0	0.000000	-173.880000	0.000000
1991	1	21	0	0	0.000000	-208.140000	0.000000
1991	1	22	0	0	0.000000	-271.970000	0.000000
1991	1	23	0	0	0.000000	-38.160000	0.000000
1991	1	24	0	0	0.000000	-20.000000	0.000000
1991	1	25	0	0	0.000000	-132.890000	0.000000
1991	1	26	0	0	0.000000	-20.000000	0.000000
1991	1	27	0	0	0.000000	-20.000000	0.000000
1991	1	28	0	0	0.000000	-38.830000	0.000000
1991	1	29	0	0	0.000000	-24.050000	0.000000
1991	1	30	0	0	0.000000	-150.360000	0.000000
1991	1	31	0	0	0.000000	-20.000000	0.000000
1991	2	1	0	0	0.000000	-20.000000	0.000000
1991	2	2	0	0	0.000000	-20.000000	0.000000
1991	2	3	0	0	0.000000	-20.000000	0.000000
1991	2	4	0	0	0.000000	-22.040000	0.000000
1991	2	5	0	0	0.000000	-20.000000	0.000000
1991	2	6	0	0	0.000000	-20.000000	0.000000
1991	2	7	0	0	0.000000	-21.370000	0.000000
1991	2	8	0	0	0.000000	-181.270000	0.000000
1991	2	9	0	0	0.000000	-67.050000	0.000000
1991	2	10	0	0	0.000000	-20.000000	0.000000
1991	2	11	0	0	0.000000	-255.850000	0.000000
1991	2	12	0	0	0.000000	-305.560000	0.000000
1991	2	13	0	0	0.000000	-64.360000	0.000000
1991	2	14	0	0	0.000000	-55.630000	0.000000
1991	2	15	0	0	0.000000	-20.000000	0.000000
1991	2	16	0	0	0.000000	-57.650000	0.000000
1991	2	17	0	0	0.000000	-222.250000	0.000000
1991	2	18	0	0	0.000000	-64.360000	0.000000
1991	2	19	0	0	0.000000	-133.570000	0.000000
1991	2	20	0	0	0.000000	-51.600000	0.000000
1991	2	21	0	0	0.000000	-20.000000	0.000000
1991	2	22	0	0	0.000000	-20.000000	0.000000
1991	2	23	0	0	0.000000	-20.000000	0.000000
1991	2	24	0	0	0.000000	-20.000000	0.000000
1991	2	25	0	0	0.000000	-20.000000	0.000000
1991	2	26	0	0	0.000000	-75.110000	0.000000
1991	2	27	0	0	0.000000	-164.470000	0.000000
1991	2	28	0	0	0.000000	-20.000000	0.000000
1991	3	1	0	0	1	-20.000000	0.000000
1991	3	2	0	0	0.000000	-73.770000	0.000000
1991	3	3	0	0	0.000000	-20.000000	0.000000
1991	3	4	0	0	0.000000	-20.000000	0.000000
1991	3	5	0	0	0.000000	-150.360000	0.000000
1991	3	6	0	0	0.000000	-105.350000	0.000000
1991	3	7	0	0	0.000000	-20.000000	0.000000
1991	3	8	0	0	0.000000	-137.600000	0.000000
1991	3	9	0	0	0.000000	-20.000000	0.000000
1991	3	10	0	0	0.000000	-20.000000	0.000000
1991	3	11	0	0	0.000000	-20.000000	0.000000
1991	3	12	0	0	0.000000	-20.000000	0.000000
1991	3	13	0	0	0.000000	-20.000000	0.000000
1991	3	14	0	0	0.000000	-20.000000	0.000000
1991	3	15	0	0	0.000000	-20.000000	0.000000
1991	3	16	0	0	0.000000	-20.000000	0.000000
1991	3	17	0	0	0.000000	-20.000000	0.000000
1991	3	18	0	0	0.000000	-20.000000	0.000000
1991	3	19	0	0	0.000000	-71.080000	0.000000
1991	3	20	0	0	0.000000	-20.000000	0.000000
1991	3	21	0	0	0.000000	-20.000000	0.000000
1991	3	22	0	0	0.000000	-51.600000	0.000000
1991	3	23	0	0	0.000000	-105.350000	0.000000
1991	3	24	0	0	0.000000	-52.270000	0.000000
1991	3	25	0	0	0.000000	-153.050000	0.000000
1991	3	26	0	0	0.000000	-140.960000	0.000000
1991	3	27	0	0	0.000000	-216.210000	0.000000
1991	3	28	0	0	0.000000	-226.960000	0.000000
1991	3	29	0	0	0.000000	-56.970000	0.000000
1991	3	30	0	0	0.000000	-190.670000	0.000000
1991	3	31	0	0	0.000000	-249.130000	0.000000
1991	4	1	0	0	0.000000	-368.050000	0.000000
1991	4	2	0	0	0.000000	-56.300000	0.000000
1991	4	3	0	0	0.000000	-20.000000	0.000000
1991	4	4	0	0	0.000000	-350.580000	0.000000
1991	4	5	0	0	0.000000	-114.080000	0.000000
1991	4	6	0	0	0.000000	-24.050000	0.000000
1991	4	7	0	0	0.000000	-51.600000	0.000000
1991	4	8	0	0	0.000000	-128.190000	0.000000
1991	4	9	0	0	0.000000	-217.550000	0.000000
1991	4	10	0	0	0.000000	-241.060000	0.000000
1991	4	11	0	0	0.000000	-328.410000	0.000000
1991	4	12	0	0	0.000000	-254.500000	0.000000
1991	4	13	0	0	0.000000	-20.000000	0.000000
1991	4	14	0	0	0.000000	-20.000000	0.000000
1991	4	15	0	0	0.000000	-269.280000	0.000000
1991	4	16	0	0	0.000000	-406.340000	0.000000
1991	4	17	0	0	0.000000	-344.530000	0.000000
1991	4	18	0	0	0.000000	-20.000000	0.000000
1991	4	19	0	0	0.000000	-20.000000	0.000000
1991	4	20	0	0	0.000000	-20.000000	0.000000
1991	4	21	0	0	0.000000	-59.660000	0.000000
1991	4	22	0	0	0.000000	-301.530000	0.000000
1991	4	23	0	0	0.000000	-101.320000	0.000000

1991	4	24	0	0	0.000000	-34.800000	0.000000
1991	4	25	0	0	0.000000	-20.000000	0.000000
1991	4	26	0	0	0.000000	-77.800000	0.000000
1991	4	27	0	0	0.000000	-212.170000	0.000000
1991	4	28	0	0	0.000000	-20.000000	0.000000
1991	4	29	0	0	0.000000	-122.820000	0.000000
1991	4	30	0	0	0.000000	-85.860000	0.000000
1991	5	1	0	0	0.000000	-184.630000	0.000000
1991	5	2	0	0	0.000000	-195.380000	0.000000
1991	5	3	0	0	0.000000	-223.600000	0.000000
1991	5	4	0	0	0.000000	-155.740000	0.000000
1991	5	5	0	0	0.000000	-261.890000	0.000000
1991	5	6	0	0	0.000000	-155.070000	0.000000
1991	5	7	0	0	0.000000	-197.390000	0.000000
1991	5	8	0	0	0.000000	-249.800000	0.000000
1991	5	9	0	0	0.000000	-208.140000	0.000000
1991	5	10	0	0	0.000000	-389.550000	0.000000
1991	5	11	0	0	0.000000	-582.370000	0.000000
1991	5	12	0	0	0.000000	-85.860000	0.000000
1991	5	13	0	0	0.000000	-247.110000	0.000000
1991	5	14	0	0	0.000000	-176.570000	0.000000
1991	5	15	0	0	0.000000	-188.660000	0.000000
1991	5	16	0	0	0.000000	-405.670000	0.000000
1991	5	17	0	0	0.000000	-25.400000	0.000000
1991	5	18	0	0	0.000000	-236.360000	0.000000
1991	5	19	0	0	0.000000	-49.580000	0.000000
1991	5	20	0	0	0.000000	-49.580000	0.000000
1991	5	21	0	0	0.000000	-402.980000	0.000000
1991	5	22	0	0	0.000000	-230.990000	0.000000
1991	5	23	0	0	0.000000	-202.770000	0.000000
1991	5	24	0	0	0.000000	-20.000000	0.000000
1991	5	25	0	0	0.000000	-20.000000	0.000000
1991	5	26	0	0	0.000000	-20.000000	0.000000
1991	5	27	0	0	0.000000	-20.000000	0.000000
1991	5	28	0	0	0.000000	-302.880000	0.000000
1991	5	29	0	0	0.000000	-132.220000	0.000000
1991	5	30	0	0	0.000000	-184.630000	0.000000
1991	5	31	0	0	0.000000	-261.220000	0.000000
1991	6	1	0	0	0.000000	-20.000000	0.000000
1991	6	2	0	0	0.000000	-20.000000	0.000000
1991	6	3	0	0	0.000000	-20.000000	0.000000
1991	6	4	0	0	0.000000	-202.100000	0.000000
1991	6	5	0	0	0.000000	-261.220000	0.000000
1991	6	6	0	0	0.000000	-279.360000	0.000000
1991	6	7	0	0	0.000000	-107.360000	0.000000
1991	6	8	0	0	0.000000	-20.000000	0.000000
1991	6	9	0	0	0.000000	-20.000000	0.000000
1991	6	10	0	0	0.000000	-226.280000	0.000000
1991	6	11	0	0	0.000000	-20.000000	0.000000
1991	6	12	0	0	0.000000	-20.000000	0.000000
1991	6	13	0	0	0.000000	-20.000000	0.000000
1991	6	14	0	0	0.000000	-20.000000	0.000000
1991	6	15	0	0	0.000000	-20.000000	0.000000
1991	6	16	0	0	0.000000	-20.000000	0.000000
1991	6	17	0	0	0.000000	-20.000000	0.000000
1991	6	18	0	0	0.000000	-20.000000	0.000000
1991	6	19	0	0	0.000000	-20.000000	0.000000
1991	6	20	0	0	0.000000	-169.170000	0.000000
1991	6	21	0	0	0.000000	-20.000000	0.000000
1991	6	22	0	0	0.000000	-20.000000	0.000000
1991	6	23	0	0	0.000000	-20.000000	0.000000
1991	6	24	0	0	0.000000	-20.000000	0.000000
1991	6	25	0	0	0.000000	-20.000000	0.000000
1991	6	26	0	0	0.000000	-32.790000	0.000000
1991	6	27	0	0	0.000000	-171.190000	0.000000
1991	6	28	0	0	0.000000	-218.220000	0.000000
1991	6	29	0	0	0.000000	-20.000000	0.000000
1991	6	30	0	0	0.000000	-20.000000	0.000000
1991	7	1	0	0	0.000000	-54.290000	0.000000
1991	7	2	0	0	0.000000	-163.130000	0.000000
1991	7	3	0	0	0.000000	-54.290000	0.000000
1991	7	4	0	0	0.000000	-20.000000	0.000000
1991	7	5	0	0	0.000000	-93.930000	0.000000
1991	7	6	0	0	0.000000	-241.740000	0.000000
1991	7	7	0	0	0.000000	-53.610000	0.000000
1991	7	8	0	0	0.000000	-323.030000	0.000000
1991	7	9	0	0	0.000000	-176.570000	0.000000
1991	7	10	0	0	0.000000	-226.280000	0.000000
1991	7	11	0	0	0.000000	-284.740000	0.000000
1991	7	12	0	0	0.000000	-142.300000	0.000000
1991	7	13	0	0	0.000000	-20.000000	0.000000
1991	7	14	0	0	0.000000	-40.850000	0.000000
1991	7	15	0	0	0.000000	-20.000000	0.000000
1991	7	16	0	0	0.000000	-110.720000	0.000000
1991	7	17	0	0	0.000000	-91.240000	0.000000
1991	7	18	0	0	0.000000	-20.000000	0.000000
1991	7	19	0	0	0.000000	-181.270000	0.000000
1991	7	20	0	0	0.000000	-20.000000	0.000000
1991	7	21	0	0	0.000000	-20.000000	0.000000
1991	7	22	0	0	0.000000	-376.780000	0.000000
1991	7	23	0	0	0.000000	-66.380000	0.000000
1991	7	24	0	0	0.000000	-20.000000	0.000000
1991	7	25	0	0	0.000000	-20.000000	0.000000
1991	7	26	0	0	0.000000	-75.110000	0.000000
1991	7	27	0	0	0.000000	-20.000000	0.000000
1991	7	28	0	0	0.000000	-75.790000	0.000000
1991	7	29	0	0	0.000000	-368.050000	0.000000
1991	7	30	0	0	0.000000	-280.030000	0.000000
1991	7	31	0	0	0.000000	-161.780000	0.000000
1991	8	1	0	0	0.000000	-108.710000	0.000000
1991	8	2	0	0	0.000000	-104.000000	0.000000
1991	8	3	0	0	0.000000	-20.000000	0.000000
1991	8	4	0	0	0.000000	-36.820000	0.000000
1991	8	5	0	0	0.000000	-214.190000	0.000000
1991	8	6	0	0	0.000000	-250.470000	0.000000
1991	8	7	0	0	0.000000	-166.490000	0.000000
1991	8	8	0	0	0.000000	-202.770000	0.000000
1991	8	9	0	0	0.000000	-20.000000	0.000000
1991	8	10	0	0	0.000000	-20.000000	0.000000
1991	8	11	0	0	0.000000	-20.000000	0.000000
1991	8	12	0	0	0.000000	-32.790000	0.000000
1991	8	13	0	0	0.000000	-20.000000	0.000000
1991	8	14	0	0	0.000000	-20.000000	0.000000
1991	8	15	0	0	0.000000	-20.000000	0.000000
1991	8	16	0	0	0.000000	-20.000000	0.000000
1991	8	17	0	0	0.000000	-20.000000	0.000000
1991	8	18	0	0	0.000000	-20.000000	0.000000
1991	8	19	0	0	0.000000	-192.020000	0.000000
1991	8	20	0	0	0.000000	-20.000000	0.000000
1991	8	21	0	0	0.000000	-20.000000	0.000000
1991	8	22	0	0	0.000000	-220.240000	0.000000
1991	8	23	0	0	0.000000	-222.920000	0.000000
1991	8	24	0	0	0.000000	-20.000000	0.000000
1991	8	25	0	0	0.000000	-20.000000	0.000000
1991	8	26	0	0	0.000000	-259.880000	0.000000
1991	8	27	0	0	0.000000	-263.910000	0.000000
1991	8	28	0	0	0.000000	-252.490000	0.000000
1991	8	29	0	0	0.000000	-265.920000	0.000000
1991	8	30	0	0	0.000000	-233.000000	0.000000
1991	8	31	0	0	0.000000	-168.500000	0.000000
1991	9	1	0	0	0.000000	-20.000000	0.000000
1991	9	2	0	0	0.000000	-20.000000	0.000000
1991	9	3	0	0	0.000000	-244.420000	0.000000
1991	9	4	0	0	0.000000	-293.470000	0.000000
1991	9	5	0	0	0.000000	-192.020000	0.000000
1991	9	6	0	0	0.000000	-159.770000	0.000000
1991	9	7	0	0	0.000000	-20.000000	0.000000
1991	9	8	0	0	0.000000	-20.000000	0.000000
1991	9	9	0	0	0.000000	-268.610000	0.000000
1991	9	10	0	0	0.000000	-175.220000	0.000000

1991	9	11	0	0	0.000000	-109.380000	0.000000
1991	9	12	0	0	0.000000	-232.330000	0.000000
1991	9	13	0	0	0.000000	-204.780000	0.000000
1991	9	14	0	0	0.000000	-20.000000	0.000000
1991	9	15	0	0	0.000000	-214.190000	0.000000
1991	9	16	0	0	0.000000	-175.220000	0.000000
1991	9	17	0	0	0.000000	-56.300000	0.000000
1991	9	18	0	0	0.000000	-20.000000	0.000000
1991	9	19	0	0	0.000000	-158.430000	0.000000
1991	9	20	0	0	0.000000	-26.740000	0.000000
1991	9	21	0	0	0.000000	-228.300000	0.000000
1991	9	22	0	0	0.000000	-30.770000	0.000000
1991	9	23	0	0	0.000000	-84.520000	0.000000
1991	9	24	0	0	0.000000	-161.780000	0.000000
1991	9	25	0	0	0.000000	-234.350000	0.000000
1991	9	26	0	0	0.000000	-91.910000	0.000000
1991	9	27	0	0	0.000000	-95.270000	0.000000
1991	9	28	0	0	0.000000	-20.000000	0.000000
1991	9	29	0	0	0.000000	-20.000000	0.000000
1991	9	30	0	0	0.000000	-20.000000	0.000000
1991	10	1	0	0	0.000000	-20.000000	0.000000
1991	10	2	0	0	0.000000	-36.150000	0.000000
1991	10	3	0	0	0.000000	-190.000000	0.000000
1991	10	4	0	0	0.000000	-147.000000	0.000000
1991	10	5	0	0	0.000000	-20.000000	0.000000
1991	10	6	0	0	0.000000	-20.000000	0.000000
1991	10	7	0	0	0.000000	-20.000000	0.000000
1991	10	8	0	0	0.000000	-20.000000	0.000000
1991	10	9	0	0	0.000000	-20.000000	0.000000
1991	10	10	0	0	0.000000	-20.000000	0.000000
1991	10	11	0	0	0.000000	-99.970000	0.000000
1991	10	12	0	0	0.000000	-20.000000	0.000000
1991	10	13	0	0	0.000000	-49.580000	0.000000
1991	10	14	0	0	0.000000	-114.080000	0.000000
1991	10	15	0	0	0.000000	-20.000000	0.000000
1991	10	16	0	0	0.000000	-44.880000	0.000000
1991	10	17	0	0	0.000000	-20.000000	0.000000
1991	10	18	0	0	0.000000	-20.000000	0.000000
1991	10	19	0	0	0.000000	-20.000000	0.000000
1991	10	20	0	0	0.000000	-20.000000	0.000000
1991	10	21	0	0	0.000000	-171.860000	0.000000
1991	10	22	0	0	0.000000	-237.030000	0.000000
1991	10	23	0	0	0.000000	-69.070000	0.000000
1991	10	24	0	0	0.000000	-44.210000	0.000000
1991	10	25	0	0	0.000000	-169.170000	0.000000
1991	10	26	0	0	0.000000	-20.000000	0.000000
1991	10	27	0	0	0.000000	-20.000000	0.000000
1991	10	28	0	0	0.000000	-20.000000	0.000000
1991	10	29	0	0	0.000000	-100.640000	0.000000
1991	10	30	0	0	0.000000	-122.140000	0.000000
1991	10	31	0	0	0.000000	-332.440000	0.000000
1991	11	1	0	0	0.000000	-31.440000	0.000000
1991	11	2	0	0	0.000000	-44.880000	0.000000
1991	11	3	0	0	0.000000	-172.530000	0.000000
1991	11	4	0	0	0.000000	-192.690000	0.000000
1991	11	5	0	0	0.000000	-105.350000	0.000000
1991	11	6	0	0	0.000000	-250.470000	0.000000
1991	11	7	0	0	0.000000	-299.520000	0.000000
1991	11	8	0	0	0.000000	-247.780000	0.000000
1991	11	9	0	0	0.000000	-37.490000	0.000000
1991	11	10	0	0	0.000000	-173.880000	0.000000
1991	11	11	0	0	0.000000	-110.720000	0.000000
1991	11	12	0	0	0.000000	-45.550000	0.000000
1991	11	13	0	0	0.000000	-227.630000	0.000000
1991	11	14	0	0	0.000000	-331.090000	0.000000
1991	11	15	0	0	0.000000	-81.160000	0.000000
1991	11	16	0	0	0.000000	-20.000000	0.000000
1991	11	17	0	0	0.000000	-20.000000	0.000000
1991	11	18	0	0	0.000000	-118.110000	0.000000
1991	11	19	0	0	0.000000	-20.000000	0.000000
1991	11	20	0	0	0.000000	-20.000000	0.000000
1991	11	21	0	0	0.000000	-20.000000	0.000000
1991	11	22	0	0	0.000000	-20.000000	0.000000
1991	11	23	0	0	0.000000	-20.000000	0.000000
1991	11	24	0	0	0.000000	-20.000000	0.000000
1991	11	25	0	0	0.000000	-20.000000	0.000000
1991	11	26	0	0	0.000000	-20.000000	0.000000
1991	11	27	0	0	0.000000	-20.000000	0.000000
1991	11	28	0	0	0.000000	-20.000000	0.000000
1991	11	29	0	0	0.000000	-20.000000	0.000000
1991	11	30	0	0	0.000000	-20.000000	0.000000
1991	12	1	0	0	0.000000	-20.000000	0.000000
1991	12	2	0	0	0.000000	-20.000000	0.000000
1991	12	3	0	0	0.000000	-20.000000	0.000000
1991	12	4	0	0	0.000000	-20.000000	0.000000
1991	12	5	0	0	0.000000	-20.000000	0.000000
1991	12	6	0	0	0.000000	-20.000000	0.000000
1991	12	7	0	0	0.000000	-20.000000	0.000000
1991	12	8	0	0	0.000000	-20.000000	0.000000
1991	12	9	0	0	0.000000	-20.000000	0.000000
1991	12	10	0	0	0.000000	-20.000000	0.000000
1991	12	11	0	0	0.000000	-20.000000	0.000000
1991	12	12	0	0	0.000000	-20.000000	0.000000
1991	12	13	0	0	0.000000	-20.000000	0.000000
1991	12	14	0	0	0.000000	-20.000000	0.000000
1991	12	15	0	0	0.000000	-20.000000	0.000000
1991	12	16	0	0	0.000000	-20.000000	0.000000
1991	12	17	0	0	0.000000	-20.000000	0.000000
1991	12	18	0	0	0.000000	-20.000000	0.000000
1991	12	19	0	0	0.000000	-20.000000	0.000000
1991	12	20	0	0	0.000000	-20.000000	0.000000
1991	12	21	0	0	0.000000	-20.000000	0.000000
1991	12	22	0	0	0.000000	-20.000000	0.000000
1991	12	23	0	0	0.000000	-20.000000	0.000000
1991	12	24	0	0	0.000000	-20.000000	0.000000
1991	12	25	0	0	0.000000	-20.000000	0.000000
1991	12	26	0	0	0.000000	-20.000000	0.000000
1991	12	27	0	0	0.000000	-20.000000	0.000000
1991	12	28	0	0	0.000000	-20.000000	0.000000
1991	12	29	0	0	0.000000	-20.000000	0.000000
1991	12	30	0	0	0.000000	-20.000000	0.000000
1991	12	31	0	0	0.000000	-179.250000	0.000000
1992	1	1	0	0	0.000000	-20.000000	0.000000
1992	1	2	0	0	0.000000	-20.000000	0.000000
1992	1	3	0	0	0.000000	-20.000000	0.000000
1992	1	4	0	0	0.000000	-20.000000	0.000000
1992	1	5	0	0	0.000000	-20.000000	0.000000
1992	1	6	0	0	0.000000	-302.880000	0.000000
1992	1	7	0	0	0.000000	-254.500000	0.000000
1992	1	8	0	0	0.000000	-250.470000	0.000000
1992	1	9	0	0	0.000000	-316.310000	0.000000
1992	1	10	0	0	0.000000	-237.030000	0.000000
1992	1	11	0	0	0.000000	-96.610000	0.000000
1992	1	12	0	0	0.000000	-20.000000	0.000000
1992	1	13	0	0	0.000000	-191.350000	0.000000
1992	1	14	0	0	0.000000	-34.130000	0.000000
1992	1	15	0	0	0.000000	-114.750000	0.000000
1992	1	16	0	0	0.000000	-20.000000	0.000000
1992	1	17	0	0	0.000000	-20.000000	0.000000
1992	1	18	0	0	0.000000	-41.520000	0.000000
1992	1	19	0	0	0.000000	-20.000000	0.000000
1992	1	20	0	0	0.000000	-20.000000	0.000000
1992	1	21	0	0	0.000000	-20.000000	0.000000
1992	1	22	0	0	0.000000	-20.000000	0.000000
1992	1	23	0	0	0.000000	-43.540000	0.000000
1992	1	24	0	0	0.000000	-20.000000	0.000000
1992	1	25	0	0	0.000000	-20.000000	0.000000
1992	1	26	0	0	0.000000	-20.000000	0.000000
1992	1	27	0	0	0.000000	-32.790000	0.000000
1992	1	28	0	0	0.000000	-20.000000	0.000000

1992	1	29	0	0	0.000000	-20.000000	0.000000
1992	1	30	0	0	0.000000	-199.410000	0.000000
1992	1	31	0	0	0.000000	-58.990000	0.000000
1992	2	1	0	0	0.000000	-20.000000	0.000000
1992	2	2	0	0	0.000000	-20.000000	0.000000
1992	2	3	0	0	0.000000	-20.000000	0.000000
1992	2	4	0	0	0.000000	-20.000000	0.000000
1992	2	5	0	0	0.000000	-46.900000	0.000000
1992	2	6	0	0	0.000000	-116.770000	0.000000
1992	2	7	0	0	0.000000	-163.130000	0.000000
1992	2	8	0	0	0.000000	-20.000000	0.000000
1992	2	9	0	0	0.000000	-20.000000	0.000000
1992	2	10	0	0	0.000000	-20.000000	0.000000
1992	2	11	0	0	0.000000	-40.180000	0.000000
1992	2	12	0	0	0.000000	-194.710000	0.000000
1992	2	13	0	0	0.000000	-20.000000	0.000000
1992	2	14	0	0	0.000000	-20.000000	0.000000
1992	2	15	0	0	0.000000	-20.000000	0.000000
1992	2	16	0	0	0.000000	-20.000000	0.000000
1992	2	17	0	0	0.000000	-20.000000	0.000000
1992	2	18	0	0	0.000000	-20.000000	0.000000
1992	2	19	0	0	0.000000	-20.000000	0.000000
1992	2	20	0	0	0.000000	-20.000000	0.000000
1992	2	21	0	0	0.000000	-20.000000	0.000000
1992	2	22	0	0	0.000000	-20.000000	0.000000
1992	2	23	0	0	0.000000	-20.000000	0.000000
1992	2	24	0	0	0.000000	-20.000000	0.000000
1992	2	25	0	0	0.000000	-20.000000	0.000000
1992	2	26	0	0	0.000000	-20.000000	0.000000
1992	2	27	0	0	0.000000	-20.000000	0.000000
1992	2	28	0	0	0.000000	-20.000000	0.000000
1992	2	29	0	0	0.000000	-20.000000	0.000000
1992	3	1	0	0	0.000000	-20.000000	0.000000
1992	3	2	0	0	0.000000	-20.000000	0.000000
1992	3	3	0	0	0.000000	-20.000000	0.000000
1992	3	4	0	0	0.000000	-20.000000	0.000000
1992	3	5	0	0	0.000000	-266.600000	0.000000
1992	3	6	0	0	0.000000	-20.000000	0.000000
1992	3	7	0	0	0.000000	-20.000000	0.000000
1992	3	8	0	0	0.000000	-20.000000	0.000000
1992	3	9	0	0	0.000000	-20.000000	0.000000
1992	3	10	0	0	0.000000	-20.000000	0.000000
1992	3	11	0	0	0.000000	-20.000000	0.000000
1992	3	12	0	0	0.000000	-266.600000	0.000000
1992	3	13	0	0	0.000000	-387.530000	0.000000
1992	3	14	0	0	0.000000	-20.000000	0.000000
1992	3	15	0	0	0.000000	-58.320000	0.000000
1992	3	16	0	0	0.000000	-253.160000	0.000000
1992	3	17	0	0	0.000000	-20.000000	0.000000
1992	3	18	0	0	0.000000	-20.000000	0.000000
1992	3	19	0	0	0.000000	-20.000000	0.000000
1992	3	20	0	0	0.000000	-452.030000	0.000000
1992	3	21	0	0	0.000000	-696.590000	0.000000
1992	3	22	0	0	0.000000	-37.490000	0.000000
1992	3	23	0	0	0.000000	-20.000000	0.000000
1992	3	24	0	0	0.000000	-20.000000	0.000000
1992	3	25	0	0	0.000000	-20.000000	0.000000
1992	3	26	0	0	0.000000	-20.000000	0.000000
1992	3	27	0	0	0.000000	-125.500000	0.000000
1992	3	28	0	0	0.000000	-20.000000	0.000000
1992	3	29	0	0	0.000000	-20.000000	0.000000
1992	3	30	0	0	0.000000	-20.000000	0.000000
1992	3	31	0	0	0.000000	-20.000000	0.000000
1992	4	1	0	0	0.000000	-20.000000	0.000000
1992	4	2	0	0	0.000000	-20.000000	0.000000
1992	4	3	0	0	0.000000	-20.000000	0.000000
1992	4	4	0	0	0.000000	-20.000000	0.000000
1992	4	5	0	0	0.000000	-20.000000	0.000000
1992	4	6	0	0	0.000000	-88.550000	0.000000
1992	4	7	0	0	0.000000	-20.000000	0.000000
1992	4	8	0	0	0.000000	-20.000000	0.000000
1992	4	9	0	0	0.000000	-122.820000	0.000000
1992	4	10	0	0	0.000000	-431.200000	0.000000
1992	4	11	0	0	0.000000	-392.910000	0.000000
1992	4	12	0	0	0.000000	-54.960000	0.000000
1992	4	13	0	0	0.000000	-20.000000	0.000000
1992	4	14	0	0	0.000000	-20.000000	0.000000
1992	4	15	0	0	0.000000	-20.000000	0.000000
1992	4	16	0	0	0.000000	-20.000000	0.000000
1992	4	17	0	0	0.000000	-20.000000	0.000000
1992	4	18	0	0	0.000000	-20.000000	0.000000
1992	4	19	0	0	0.000000	-91.910000	0.000000
1992	4	20	0	0	0.000000	-255.170000	0.000000
1992	4	21	0	0	0.000000	-390.890000	0.000000
1992	4	22	0	0	0.000000	-469.500000	0.000000
1992	4	23	0	0	0.000000	-269.950000	0.000000
1992	4	24	0	0	0.000000	-253.830000	0.000000
1992	4	25	0	0	0.000000	-22.040000	0.000000
1992	4	26	0	0	0.000000	-20.000000	0.000000
1992	4	27	0	0	0.000000	-165.140000	0.000000
1992	4	28	0	0	0.000000	-128.190000	0.000000
1992	4	29	0	0	0.000000	-201.420000	0.000000
1992	4	30	0	0	0.000000	-20.000000	0.000000
1992	5	1	0	0	0.000000	-52.270000	0.000000
1992	5	2	0	0	0.000000	-20.000000	0.000000
1992	5	3	0	0	0.000000	-66.380000	0.000000
1992	5	4	0	0	0.000000	-20.000000	0.000000
1992	5	5	0	0	0.000000	-79.150000	0.000000
1992	5	6	0	0	0.000000	-79.820000	0.000000
1992	5	7	0	0	0.000000	-77.130000	0.000000
1992	5	8	0	0	0.000000	-180.600000	0.000000
1992	5	9	0	0	0.000000	-20.000000	0.000000
1992	5	10	0	0	0.000000	-20.000000	0.000000
1992	5	11	0	0	0.000000	-130.880000	0.000000
1992	5	12	0	0	0.000000	-86.540000	0.000000
1992	5	13	0	0	0.000000	-56.970000	0.000000
1992	5	14	0	0	0.000000	-162.460000	0.000000
1992	5	15	0	0	0.000000	-20.000000	0.000000
1992	5	16	0	0	0.000000	-20.000000	0.000000
1992	5	17	0	0	0.000000	-20.000000	0.000000
1992	5	18	0	0	0.000000	-270.630000	0.000000
1992	5	19	0	0	0.000000	-380.810000	0.000000
1992	5	20	0	0	0.000000	-277.340000	0.000000
1992	5	21	0	0	0.000000	-305.560000	0.000000
1992	5	22	0	0	0.000000	-446.650000	0.000000
1992	5	23	0	0	0.000000	-998.930000	0.000000
1992	5	24	0	0	0.000000	-1254.230000	0.000000
1992	5	25	0	0	0.000000	-557.510000	0.000000
1992	5	26	0	0	0.000000	-435.230000	0.000000
1992	5	27	0	0	0.000000	-499.060000	0.000000
1992	5	28	0	0	0.000000	-353.940000	0.000000
1992	5	29	0	0	0.000000	-285.410000	0.000000
1992	5	30	0	0	0.000000	-210.160000	0.000000
1992	5	31	0	0	0.000000	-272.640000	0.000000
1992	6	1	0	0	0.000000	-375.440000	0.000000
1992	6	2	0	0	0.000000	-703.310000	0.000000
1992	6	3	0	0	0.000000	-385.510000	0.000000
1992	6	4	0	0	0.000000	-305.560000	0.000000
1992	6	5	0	0	0.000000	-239.050000	0.000000
1992	6	6	0	0	0.000000	-143.640000	0.000000
1992	6	7	0	0	0.000000	-276.000000	0.000000
1992	6	8	0	0	0.000000	-347.220000	0.000000
1992	6	9	0	0	0.000000	-319.000000	0.000000
1992	6	10	0	0	0.000000	-337.140000	0.000000
1992	6	11	0	0	0.000000	-339.830000	0.000000
1992	6	12	0	0	0.000000	-343.190000	0.000000
1992	6	13	0	0	0.000000	-322.360000	0.000000
1992	6	14	0	0	0.000000	-151.030000	0.000000
1992	6	15	0	0	0.000000	-310.270000	0.000000
1992	6	16	0	0	0.000000	-332.440000	0.000000

1992	6	17	0	0	0.000000	-355.280000	0.000000
1992	6	18	0	0	0.000000	-378.800000	0.000000
1992	6	19	0	0	0.000000	-444.640000	0.000000
1992	6	20	0	0	0.000000	-20.000000	0.000000
1992	6	21	0	0	0.000000	-93.250000	0.000000
1992	6	22	0	0	0.000000	-373.420000	0.000000
1992	6	23	0	0	0.000000	-343.190000	0.000000
1992	6	24	0	0	0.000000	-52.940000	0.000000
1992	6	25	0	0	0.000000	-20.000000	0.000000
1992	6	26	0	0	0.000000	-20.000000	0.000000
1992	6	27	0	0	0.000000	-20.000000	0.000000
1992	6	28	0	0	0.000000	-20.000000	0.000000
1992	6	29	0	0	0.000000	-24.050000	0.000000
1992	6	30	0	0	0.000000	-233.670000	0.000000
1992	7	1	0	0	0.000000	-173.880000	0.000000
1992	7	2	0	0	0.000000	-163.800000	0.000000
1992	7	3	0	0	0.000000	-125.500000	0.000000
1992	7	4	0	0	0.000000	-24.050000	0.000000
1992	7	5	0	0	0.000000	-39.510000	0.000000
1992	7	6	0	0	0.000000	-290.110000	0.000000
1992	7	7	0	0	0.000000	-48.910000	0.000000
1992	7	8	0	0	0.000000	-63.020000	0.000000
1992	7	9	0	0	0.000000	-72.430000	0.000000
1992	7	10	0	0	0.000000	-34.130000	0.000000
1992	7	11	0	0	0.000000	-130.880000	0.000000
1992	7	12	0	0	0.000000	-144.320000	0.000000
1992	7	13	0	0	0.000000	-287.420000	0.000000
1992	7	14	0	0	0.000000	-20.000000	0.000000
1992	7	15	0	0	0.000000	-20.000000	0.000000
1992	7	16	0	0	0.000000	-153.050000	0.000000
1992	7	17	0	0	0.000000	-164.470000	0.000000
1992	7	18	0	0	0.000000	-92.580000	0.000000
1992	7	19	0	0	0.000000	-101.320000	0.000000
1992	7	20	0	0	0.000000	-132.890000	0.000000
1992	7	21	0	0	0.000000	-192.690000	0.000000
1992	7	22	0	0	0.000000	-108.040000	0.000000
1992	7	23	0	0	0.000000	-119.460000	0.000000
1992	7	24	0	0	0.000000	-132.220000	0.000000
1992	7	25	0	0	0.000000	-20.000000	0.000000
1992	7	26	0	0	0.000000	-20.000000	0.000000
1992	7	27	0	0	0.000000	-35.470000	0.000000
1992	7	28	0	0	0.000000	-172.530000	0.000000
1992	7	29	0	0	0.000000	-190.670000	0.000000
1992	7	30	0	0	0.000000	-214.190000	0.000000
1992	7	31	0	0	0.000000	-20.000000	0.000000
1992	8	1	0	0	0.000000	-300.860000	0.000000
1992	8	2	0	0	0.000000	-291.450000	0.000000
1992	8	3	0	0	0.000000	-136.930000	0.000000
1992	8	4	0	0	0.000000	-211.500000	0.000000
1992	8	5	0	0	0.000000	-177.240000	0.000000
1992	8	6	0	0	0.000000	-126.180000	0.000000
1992	8	7	0	0	0.000000	-157.080000	0.000000
1992	8	8	0	0	0.000000	-20.000000	0.000000
1992	8	9	0	0	0.000000	-20.000000	0.000000
1992	8	10	0	0	0.000000	-258.530000	0.000000
1992	8	11	0	0	0.000000	-204.780000	0.000000
1992	8	12	0	0	0.000000	-20.000000	0.000000
1992	8	13	0	0	0.000000	-20.000000	0.000000
1992	8	14	0	0	0.000000	-20.000000	0.000000
1992	8	15	0	0	0.000000	-20.000000	0.000000
1992	8	16	0	0	0.000000	-61.680000	0.000000
1992	8	17	0	0	0.000000	-20.000000	0.000000
1992	8	18	0	0	0.000000	-20.000000	0.000000
1992	8	19	0	0	0.000000	-24.720000	0.000000
1992	8	20	0	0	0.000000	-91.910000	0.000000
1992	8	21	0	0	0.000000	-280.030000	0.000000
1992	8	22	0	0	0.000000	-212.850000	0.000000
1992	8	23	0	0	0.000000	-20.000000	0.000000
1992	8	24	0	0	0.000000	-159.100000	0.000000
1992	8	25	0	0	0.000000	-298.840000	0.000000
1992	8	26	0	0	0.000000	-216.210000	0.000000
1992	8	27	0	0	0.000000	-128.190000	0.000000
1992	8	28	0	0	0.000000	-20.000000	0.000000
1992	8	29	0	0	0.000000	-20.000000	0.000000
1992	8	30	0	0	0.000000	-20.000000	0.000000
1992	8	31	0	0	0.000000	-20.000000	0.000000
1992	9	1	0	0	0.000000	-20.000000	0.000000
1992	9	2	0	0	0.000000	-20.000000	0.000000
1992	9	3	0	0	0.000000	-183.280000	0.000000
1992	9	4	0	0	0.000000	-87.210000	0.000000
1992	9	5	0	0	0.000000	-99.300000	0.000000
1992	9	6	0	0	0.000000	-20.000000	0.000000
1992	9	7	0	0	0.000000	-20.000000	0.000000
1992	9	8	0	0	0.000000	-20.000000	0.000000
1992	9	9	0	0	0.000000	-185.970000	0.000000
1992	9	10	0	0	0.000000	-337.810000	0.000000
1992	9	11	0	0	0.000000	-329.080000	0.000000
1992	9	12	0	0	0.000000	-20.000000	0.000000
1992	9	13	0	0	0.000000	-20.000000	0.000000
1992	9	14	0	0	0.000000	-20.000000	0.000000
1992	9	15	0	0	0.000000	-20.000000	0.000000
1992	9	16	0	0	0.000000	-20.000000	0.000000
1992	9	17	0	0	0.000000	-102.660000	0.000000
1992	9	18	0	0	0.000000	-20.000000	0.000000
1992	9	19	0	0	0.000000	-100.640000	0.000000
1992	9	20	0	0	0.000000	-56.300000	0.000000
1992	9	21	0	0	0.000000	-20.000000	0.000000
1992	9	22	0	0	0.000000	-131.550000	0.000000
1992	9	23	0	0	0.000000	-31.440000	0.000000
1992	9	24	0	0	0.000000	-235.020000	0.000000
1992	9	25	0	0	0.000000	-288.770000	0.000000
1992	9	26	0	0	0.000000	-94.600000	0.000000
1992	9	27	0	0	0.000000	-20.000000	0.000000
1992	9	28	0	0	0.000000	-25.400000	0.000000
1992	9	29	0	0	0.000000	-161.110000	0.000000
1992	9	30	0	0	0.000000	-243.750000	0.000000
1992	10	1	0	0	0.000000	-216.880000	0.000000
1992	10	2	0	0	0.000000	-217.550000	0.000000
1992	10	3	0	0	0.000000	-179.920000	0.000000
1992	10	4	0	0	0.000000	-216.210000	0.000000
1992	10	5	0	0	0.000000	-261.220000	0.000000
1992	10	6	0	0	0.000000	-199.410000	0.000000
1992	10	7	0	0	0.000000	-319.670000	0.000000
1992	10	8	0	0	0.000000	-383.500000	0.000000
1992	10	9	0	0	0.000000	-409.030000	0.000000
1992	10	10	0	0	0.000000	-302.200000	0.000000
1992	10	11	0	0	0.000000	-243.080000	0.000000
1992	10	12	0	0	0.000000	-354.610000	0.000000
1992	10	13	0	0	0.000000	-168.500000	0.000000
1992	10	14	0	0	0.000000	-288.770000	0.000000
1992	10	15	0	0	0.000000	-356.620000	0.000000
1992	10	16	0	0	0.000000	-239.720000	0.000000
1992	10	17	0	0	0.000000	-20.000000	0.000000
1992	10	18	0	0	0.000000	-298.840000	0.000000
1992	10	19	0	0	0.000000	-298.170000	0.000000
1992	10	20	0	0	0.000000	-351.250000	0.000000
1992	10	21	0	0	0.000000	-241.060000	0.000000
1992	10	22	0	0	0.000000	-300.860000	0.000000
1992	10	23	0	0	0.000000	-173.880000	0.000000
1992	10	24	0	0	0.000000	-20.000000	0.000000
1992	10	25	0	0	0.000000	-20.000000	0.000000
1992	10	26	0	0	0.000000	-20.000000	0.000000
1992	10	27	0	0	0.000000	-67.720000	0.000000
1992	10	28	0	0	0.000000	-94.600000	0.000000
1992	10	29	0	0	0.000000	-26.740000	0.000000
1992	10	30	0	0	0.000000	-412.390000	0.000000
1992	10	31	0	0	0.000000	-279.360000	0.000000
1992	11	1	0	0	0.000000	-75.110000	0.000000
1992	11	2	0	0	0.000000	-376.110000	0.000000
1992	11	3	0	0	0.000000	-80.490000	0.000000

1992	11	4	0	0	0.000000	-228.300000	0.000000
1992	11	5	0	0	0.000000	-335.120000	0.000000
1992	11	6	0	0	0.000000	-388.200000	0.000000
1992	11	7	0	0	0.000000	-166.490000	0.000000
1992	11	8	0	0	0.000000	-20.000000	0.000000
1992	11	9	0	0	0.000000	-231.660000	0.000000
1992	11	10	0	0	0.000000	-241.060000	0.000000
1992	11	11	0	0	0.000000	-134.240000	0.000000
1992	11	12	0	0	0.000000	-168.500000	0.000000
1992	11	13	0	0	0.000000	-20.000000	0.000000
1992	11	14	0	0	0.000000	-20.000000	0.000000
1992	11	15	0	0	0.000000	-20.000000	0.000000
1992	11	16	0	0	0.000000	-20.000000	0.000000
1992	11	17	0	0	0.000000	-251.810000	0.000000
1992	11	18	0	0	0.000000	-274.660000	0.000000
1992	11	19	0	0	0.000000	-134.240000	0.000000
1992	11	20	0	0	0.000000	-211.500000	0.000000
1992	11	21	0	0	0.000000	-58.320000	0.000000
1992	11	22	0	0	0.000000	-20.000000	0.000000
1992	11	23	0	0	0.000000	-20.000000	0.000000
1992	11	24	0	0	0.000000	-172.530000	0.000000
1992	11	25	0	0	0.000000	-126.850000	0.000000
1992	11	26	0	0	0.000000	-20.000000	0.000000
1992	11	27	0	0	0.000000	-54.290000	0.000000
1992	11	28	0	0	0.000000	-20.000000	0.000000
1992	11	29	0	0	0.000000	-20.000000	0.000000
1992	11	30	0	0	0.000000	-80.490000	0.000000
1992	12	1	0	0	0.000000	-20.000000	0.000000
1992	12	2	0	0	0.000000	-211.500000	0.000000
1992	12	3	0	0	0.000000	-217.550000	0.000000
1992	12	4	0	0	0.000000	-226.280000	0.000000
1992	12	5	0	0	0.000000	-20.000000	0.000000
1992	12	6	0	0	0.000000	-20.000000	0.000000
1992	12	7	0	0	0.000000	-20.000000	0.000000
1992	12	8	0	0	0.000000	-129.540000	0.000000
1992	12	9	0	0	0.000000	-386.860000	0.000000
1992	12	10	0	0	0.000000	-288.770000	0.000000
1992	12	11	0	0	0.000000	-108.040000	0.000000
1992	12	12	0	0	0.000000	-20.000000	0.000000
1992	12	13	0	0	0.000000	-20.000000	0.000000
1992	12	14	0	0	0.000000	-134.910000	0.000000
1992	12	15	0	0	0.000000	-783.930000	0.000000
1992	12	16	0	0	0.000000	-211.500000	0.000000
1992	12	17	0	0	0.000000	-310.270000	0.000000
1992	12	18	0	0	0.000000	-352.590000	0.000000
1992	12	19	0	0	0.000000	-111.390000	0.000000
1992	12	20	0	0	0.000000	-20.000000	0.000000
1992	12	21	0	0	0.000000	-175.220000	0.000000
1992	12	22	0	0	0.000000	-122.820000	0.000000
1992	12	23	0	0	0.000000	-75.110000	0.000000
1992	12	24	0	0	0.000000	-71.080000	0.000000
1992	12	25	0	0	0.000000	-282.720000	0.000000
1992	12	26	0	0	0.000000	-183.280000	0.000000
1992	12	27	0	0	0.000000	-174.550000	0.000000
1992	12	28	0	0	0.000000	-226.280000	0.000000
1992	12	29	0	0	0.000000	-304.220000	0.000000
1992	12	30	0	0	0.000000	-409.030000	0.000000
1992	12	31	0	0	0.000000	-304.220000	0.000000
1993	1	1	0	0	0.000000	-71.080000	0.000000
1993	1	2	0	0	0.000000	-79.150000	0.000000
1993	1	3	0	0	0.000000	-68.400000	0.000000
1993	1	4	0	0	0.000000	-95.270000	0.000000
1993	1	5	0	0	0.000000	-61.680000	0.000000
1993	1	6	0	0	0.000000	-20.000000	0.000000
1993	1	7	0	0	0.000000	-159.770000	0.000000
1993	1	8	0	0	0.000000	-234.350000	0.000000
1993	1	9	0	0	0.000000	-298.170000	0.000000
1993	1	10	0	0	0.000000	-213.520000	0.000000
1993	1	11	0	0	0.000000	-20.000000	0.000000
1993	1	12	0	0	0.000000	-268.610000	0.000000
1993	1	13	0	0	0.000000	-224.940000	0.000000
1993	1	14	0	0	0.000000	-223.600000	0.000000
1993	1	15	0	0	0.000000	-336.470000	0.000000
1993	1	16	0	0	0.000000	-73.770000	0.000000
1993	1	17	0	0	0.000000	-20.000000	0.000000
1993	1	18	0	0	0.000000	-229.640000	0.000000
1993	1	19	0	0	0.000000	-226.960000	0.000000
1993	1	20	0	0	0.000000	-312.280000	0.000000
1993	1	21	0	0	0.000000	-257.860000	0.000000
1993	1	22	0	0	0.000000	-22.040000	0.000000
1993	1	23	0	0	0.000000	-20.000000	0.000000
1993	1	24	0	0	0.000000	-20.000000	0.000000
1993	1	25	0	0	0.000000	-20.000000	0.000000
1993	1	26	0	0	0.000000	-110.050000	0.000000
1993	1	27	0	0	0.000000	-52.270000	0.000000
1993	1	28	0	0	0.000000	-126.850000	0.000000
1993	1	29	0	0	0.000000	-166.490000	0.000000
1993	1	30	0	0	0.000000	-31.440000	0.000000
1993	1	31	0	0	0.000000	-271.300000	0.000000
1993	2	1	0	0	0.000000	-312.280000	0.000000
1993	2	2	0	0	0.000000	-382.830000	0.000000
1993	2	3	0	0	0.000000	-85.860000	0.000000
1993	2	4	0	0	0.000000	-247.780000	0.000000
1993	2	5	0	0	0.000000	-99.970000	0.000000
1993	2	6	0	0	0.000000	-62.350000	0.000000
1993	2	7	0	0	0.000000	-43.540000	0.000000
1993	2	8	0	0	0.000000	-336.470000	0.000000
1993	2	9	0	0	0.000000	-194.710000	0.000000
1993	2	10	0	0	0.000000	-207.470000	0.000000
1993	2	11	0	0	0.000000	-20.000000	0.000000
1993	2	12	0	0	0.000000	-20.000000	0.000000
1993	2	13	0	0	0.000000	-60.330000	0.000000
1993	2	14	0	0	0.000000	-57.650000	0.000000
1993	2	15	0	0	0.000000	-20.000000	0.000000
1993	2	16	0	0	0.000000	-21.370000	0.000000
1993	2	17	0	0	0.000000	-71.750000	0.000000
1993	2	18	0	0	0.000000	-91.240000	0.000000
1993	2	19	0	0	0.000000	-141.630000	0.000000
1993	2	20	0	0	0.000000	-20.000000	0.000000
1993	2	21	0	0	0.000000	-20.000000	0.000000
1993	2	22	0	0	0.000000	-20.000000	0.000000
1993	2	23	0	0	0.000000	-20.000000	0.000000
1993	2	24	0	0	0.000000	-134.240000	0.000000
1993	2	25	0	0	0.000000	-126.180000	0.000000
1993	2	26	0	0	0.000000	-28.080000	0.000000
1993	2	27	0	0	0.000000	-20.000000	0.000000
1993	2	28	0	0	0.000000	-20.000000	0.000000
1993	3	1	0	0	0.000000	-42.190000	0.000000
1993	3	2	0	0	0.000000	-153.050000	0.000000
1993	3	3	0	0	0.000000	-184.630000	0.000000
1993	3	4	0	0	0.000000	-185.970000	0.000000
1993	3	5	0	0	0.000000	-112.070000	0.000000
1993	3	6	0	0	0.000000	-20.000000	0.000000
1993	3	7	0	0	0.000000	-20.000000	0.000000
1993	3	8	0	0	0.000000	-20.000000	0.000000
1993	3	9	0	0	0.000000	-20.000000	0.000000
1993	3	10	0	0	0.000000	-20.000000	0.000000
1993	3	11	0	0	0.000000	-207.470000	0.000000
1993	3	12	0	0	0.000000	-298.170000	0.000000
1993	3	13	0	0	0.000000	-322.360000	0.000000
1993	3	14	0	0	0.000000	-335.120000	0.000000
1993	3	15	0	0	0.000000	-309.590000	0.000000
1993	3	16	0	0	0.000000	-20.000000	0.000000
1993	3	17	0	0	0.000000	-46.220000	0.000000
1993	3	18	0	0	0.000000	-20.000000	0.000000
1993	3	19	0	0	0.000000	-20.000000	0.000000
1993	3	20	0	0	0.000000	-20.000000	0.000000
1993	3	21	0	0	0.000000	-20.000000	0.000000
1993	3	22	0	0	0.000000	-20.000000	0.000000
1993	3	23	0	0	0.000000	-20.000000	0.000000

1993	3	24	0	0	0.000000	-34.130000	0.000000
1993	3	25	0	0	0.000000	-225.610000	0.000000
1993	3	26	0	0	0.000000	-20.000000	0.000000
1993	3	27	0	0	0.000000	-20.000000	0.000000
1993	3	28	0	0	0.000000	-20.000000	0.000000
1993	3	29	0	0	0.000000	-20.000000	0.000000
1993	3	30	0	0	0.000000	-20.000000	0.000000
1993	3	31	0	0	0.000000	-20.000000	0.000000
1993	4	1	0	0	0.000000	-20.690000	0.000000
1993	4	2	0	0	0.000000	-20.000000	0.000000
1993	4	3	0	0	0.000000	-20.000000	0.000000
1993	4	4	0	0	0.000000	-20.000000	0.000000
1993	4	5	0	0	0.000000	-20.000000	0.000000
1993	4	6	0	0	0.000000	-20.000000	0.000000
1993	4	7	0	0	0.000000	-20.000000	0.000000
1993	4	8	0	0	0.000000	-20.000000	0.000000
1993	4	9	0	0	0.000000	-20.000000	0.000000
1993	4	10	0	0	0.000000	-20.000000	0.000000
1993	4	11	0	0	0.000000	-20.000000	0.000000
1993	4	12	0	0	0.000000	-54.960000	0.000000
1993	4	13	0	0	0.000000	-169.850000	0.000000
1993	4	14	0	0	0.000000	-157.080000	0.000000
1993	4	15	0	0	0.000000	-323.700000	0.000000
1993	4	16	0	0	0.000000	-465.470000	0.000000
1993	4	17	0	0	0.000000	-193.360000	0.000000
1993	4	18	0	0	0.000000	-230.990000	0.000000
1993	4	19	0	0	0.000000	-194.030000	0.000000
1993	4	20	0	0	0.000000	-79.150000	0.000000
1993	4	21	0	0	0.000000	-226.280000	0.000000
1993	4	22	0	0	0.000000	-254.500000	0.000000
1993	4	23	0	0	0.000000	-103.330000	0.000000
1993	4	24	0	0	0.000000	-20.000000	0.000000
1993	4	25	0	0	0.000000	-20.000000	0.000000
1993	4	26	0	0	0.000000	-261.220000	0.000000
1993	4	27	0	0	0.000000	-357.970000	0.000000
1993	4	28	0	0	0.000000	-88.550000	0.000000
1993	4	29	0	0	0.000000	-130.880000	0.000000
1993	4	30	0	0	0.000000	-210.160000	0.000000
1993	5	1	0	0	0.000000	-68.400000	0.000000
1993	5	2	0	0	0.000000	-192.690000	0.000000
1993	5	3	0	0	0.000000	-306.910000	0.000000
1993	5	4	0	0	0.000000	-310.270000	0.000000
1993	5	5	0	0	0.000000	-219.560000	0.000000
1993	5	6	0	0	0.000000	-105.350000	0.000000
1993	5	7	0	0	0.000000	-185.970000	0.000000
1993	5	8	0	0	0.000000	-20.000000	0.000000
1993	5	9	0	0	0.000000	-152.380000	0.000000
1993	5	10	0	0	0.000000	-125.500000	0.000000
1993	5	11	0	0	0.000000	-159.100000	0.000000
1993	5	12	0	0	0.000000	-91.910000	0.000000
1993	5	13	0	0	0.000000	-20.000000	0.000000
1993	5	14	0	0	0.000000	-24.720000	0.000000
1993	5	15	0	0	0.000000	-20.000000	0.000000
1993	5	16	0	0	0.000000	-24.720000	0.000000
1993	5	17	0	0	0.000000	-185.970000	0.000000
1993	5	18	0	0	0.000000	-172.530000	0.000000
1993	5	19	0	0	0.000000	-91.910000	0.000000
1993	5	20	0	0	0.000000	-20.000000	0.000000
1993	5	21	0	0	0.000000	-83.850000	0.000000
1993	5	22	0	0	0.000000	-298.840000	0.000000
1993	5	23	0	0	0.000000	-113.410000	0.000000
1993	5	24	0	0	0.000000	-86.540000	0.000000
1993	5	25	0	0	0.000000	-54.290000	0.000000
1993	5	26	0	0	0.000000	-91.910000	0.000000
1993	5	27	0	0	0.000000	-219.560000	0.000000
1993	5	28	0	0	0.000000	-233.000000	0.000000
1993	5	29	0	0	0.000000	-212.850000	0.000000
1993	5	30	0	0	0.000000	-105.350000	0.000000
1993	5	31	0	0	0.000000	-38.160000	0.000000
1993	6	1	0	0	0.000000	-20.000000	0.000000
1993	6	2	0	0	0.000000	-20.000000	0.000000
1993	6	3	0	0	0.000000	-210.830000	0.000000
1993	6	4	0	0	0.000000	-140.280000	0.000000
1993	6	5	0	0	0.000000	-20.000000	0.000000
1993	6	6	0	0	0.000000	-20.000000	0.000000
1993	6	7	0	0	0.000000	-233.000000	0.000000
1993	6	8	0	0	0.000000	-200.750000	0.000000
1993	6	9	0	0	0.000000	-154.390000	0.000000
1993	6	10	0	0	0.000000	-200.080000	0.000000
1993	6	11	0	0	0.000000	-167.830000	0.000000
1993	6	12	0	0	0.000000	-20.000000	0.000000
1993	6	13	0	0	0.000000	-304.220000	0.000000
1993	6	14	0	0	0.000000	-239.050000	0.000000
1993	6	15	0	0	0.000000	-245.770000	0.000000
1993	6	16	0	0	0.000000	-65.040000	0.000000
1993	6	17	0	0	0.000000	-20.000000	0.000000
1993	6	18	0	0	0.000000	-20.000000	0.000000
1993	6	19	0	0	0.000000	-39.510000	0.000000
1993	6	20	0	0	0.000000	-99.300000	0.000000
1993	6	21	0	0	0.000000	-351.250000	0.000000
1993	6	22	0	0	0.000000	-295.490000	0.000000
1993	6	23	0	0	0.000000	-366.700000	0.000000
1993	6	24	0	0	0.000000	-20.000000	0.000000
1993	6	25	0	0	0.000000	-20.000000	0.000000
1993	6	26	0	0	0.000000	-20.000000	0.000000
1993	6	27	0	0	0.000000	-50.930000	0.000000
1993	6	28	0	0	0.000000	-204.110000	0.000000
1993	6	29	0	0	0.000000	-264.580000	0.000000
1993	6	30	0	0	0.000000	-53.610000	0.000000
1993	7	1	0	0	0.000000	-20.000000	0.000000
1993	7	2	0	0	0.000000	-20.000000	0.000000
1993	7	3	0	0	0.000000	-252.490000	0.000000
1993	7	4	0	0	0.000000	-75.110000	0.000000
1993	7	5	0	0	0.000000	-20.000000	0.000000
1993	7	6	0	0	0.000000	-20.000000	0.000000
1993	7	7	0	0	0.000000	-106.690000	0.000000
1993	7	8	0	0	0.000000	-106.020000	0.000000
1993	7	9	0	0	0.000000	-241.060000	0.000000
1993	7	10	0	0	0.000000	-20.000000	0.000000
1993	7	11	0	0	0.000000	-108.710000	0.000000
1993	7	12	0	0	0.000000	-196.050000	0.000000
1993	7	13	0	0	0.000000	-153.720000	0.000000
1993	7	14	0	0	0.000000	-207.470000	0.000000
1993	7	15	0	0	0.000000	-100.640000	0.000000
1993	7	16	0	0	0.000000	-88.550000	0.000000
1993	7	17	0	0	0.000000	-20.000000	0.000000
1993	7	18	0	0	0.000000	-20.000000	0.000000
1993	7	19	0	0	0.000000	-91.240000	0.000000
1993	7	20	0	0	0.000000	-299.520000	0.000000
1993	7	21	0	0	0.000000	-20.000000	0.000000
1993	7	22	0	0	0.000000	-26.070000	0.000000
1993	7	23	0	0	0.000000	-20.000000	0.000000
1993	7	24	0	0	0.000000	-20.000000	0.000000
1993	7	25	0	0	0.000000	-20.000000	0.000000
1993	7	26	0	0	0.000000	-20.000000	0.000000
1993	7	27	0	0	0.000000	-20.000000	0.000000
1993	7	28	0	0	0.000000	-239.050000	0.000000
1993	7	29	0	0	0.000000	-44.880000	0.000000
1993	7	30	0	0	0.000000	-20.000000	0.000000
1993	7	31	0	0	0.000000	-30.770000	0.000000
1993	8	1	0	0	0.000000	-20.000000	0.000000
1993	8	2	0	0	0.000000	-52.270000	0.000000
1993	8	3	0	0	0.000000	-235.690000	0.000000
1993	8	4	0	0	0.000000	-114.750000	0.000000
1993	8	5	0	0	0.000000	-194.710000	0.000000
1993	8	6	0	0	0.000000	-86.540000	0.000000
1993	8	7	0	0	0.000000	-20.000000	0.000000
1993	8	8	0	0	0.000000	-192.020000	0.000000
1993	8	9	0	0	0.000000	-20.000000	0.000000
1993	8	10	0	0	0.000000	-326.390000	0.000000

1993	8	11	0	0	0.000000	-402.980000	0.000000
1993	8	12	0	0	0.000000	-221.580000	0.000000
1993	8	13	0	0	0.000000	-405.000000	0.000000
1993	8	14	0	0	0.000000	-83.180000	0.000000
1993	8	15	0	0	0.000000	-20.000000	0.000000
1993	8	16	0	0	0.000000	-20.000000	0.000000
1993	8	17	0	0	0.000000	-174.550000	0.000000
1993	8	18	0	0	0.000000	-146.330000	0.000000
1993	8	19	0	0	0.000000	-140.960000	0.000000
1993	8	20	0	0	0.000000	-20.000000	0.000000
1993	8	21	0	0	0.000000	-20.000000	0.000000
1993	8	22	0	0	0.000000	-20.000000	0.000000
1993	8	23	0	0	0.000000	-61.010000	0.000000
1993	8	24	0	0	0.000000	-22.710000	0.000000
1993	8	25	0	0	0.000000	-382.830000	0.000000
1993	8	26	0	0	0.000000	-161.780000	0.000000
1993	8	27	0	0	0.000000	-58.320000	0.000000
1993	8	28	0	0	0.000000	-20.000000	0.000000
1993	8	29	0	0	0.000000	-20.000000	0.000000
1993	8	30	0	0	0.000000	-36.150000	0.000000
1993	8	31	0	0	0.000000	-95.940000	0.000000
1993	9	1	0	0	0.000000	-211.500000	0.000000
1993	9	2	0	0	0.000000	-188.660000	0.000000
1993	9	3	0	0	0.000000	-183.280000	0.000000
1993	9	4	0	0	0.000000	-20.000000	0.000000
1993	9	5	0	0	0.000000	-20.000000	0.000000
1993	9	6	0	0	0.000000	-41.520000	0.000000
1993	9	7	0	0	0.000000	-448.670000	0.000000
1993	9	8	0	0	0.000000	-304.890000	0.000000
1993	9	9	0	0	0.000000	-287.420000	0.000000
1993	9	10	0	0	0.000000	-328.410000	0.000000
1993	9	11	0	0	0.000000	-134.910000	0.000000
1993	9	12	0	0	0.000000	-20.000000	0.000000
1993	9	13	0	0	0.000000	-20.000000	0.000000
1993	9	14	0	0	0.000000	-20.000000	0.000000
1993	9	15	0	0	0.000000	-171.190000	0.000000
1993	9	16	0	0	0.000000	-67.050000	0.000000
1993	9	17	0	0	0.000000	-96.610000	0.000000
1993	9	18	0	0	0.000000	-116.770000	0.000000
1993	9	19	0	0	0.000000	-76.460000	0.000000
1993	9	20	0	0	0.000000	-20.000000	0.000000
1993	9	21	0	0	0.000000	-128.190000	0.000000
1993	9	22	0	0	0.000000	-308.250000	0.000000
1993	9	23	0	0	0.000000	-231.660000	0.000000
1993	9	24	0	0	0.000000	-120.130000	0.000000
1993	9	25	0	0	0.000000	-20.000000	0.000000
1993	9	26	0	0	0.000000	-20.000000	0.000000
1993	9	27	0	0	0.000000	-321.690000	0.000000
1993	9	28	0	0	0.000000	-67.050000	0.000000
1993	9	29	0	0	0.000000	-155.070000	0.000000
1993	9	30	0	0	0.000000	-20.000000	0.000000
1993	10	1	0	0	0.000000	-122.820000	0.000000
1993	10	2	0	0	0.000000	-20.000000	0.000000
1993	10	3	0	0	0.000000	-34.800000	0.000000
1993	10	4	0	0	0.000000	-20.020000	0.000000
1993	10	5	0	0	0.000000	-304.220000	0.000000
1993	10	6	0	0	0.000000	-126.850000	0.000000
1993	10	7	0	0	0.000000	-20.000000	0.000000
1993	10	8	0	0	0.000000	-117.440000	0.000000
1993	10	9	0	0	0.000000	-156.410000	0.000000
1993	10	10	0	0	0.000000	-138.270000	0.000000
1993	10	11	0	0	0.000000	-130.210000	0.000000
1993	10	12	0	0	0.000000	-20.000000	0.000000
1993	10	13	0	0	0.000000	-22.710000	0.000000
1993	10	14	0	0	0.000000	-133.570000	0.000000
1993	10	15	0	0	0.000000	-20.000000	0.000000
1993	10	16	0	0	0.000000	-20.000000	0.000000
1993	10	17	0	0	0.000000	-20.000000	0.000000
1993	10	18	0	0	0.000000	-63.690000	0.000000
1993	10	19	0	0	0.000000	-284.740000	0.000000
1993	10	20	0	0	0.000000	-139.610000	0.000000
1993	10	21	0	0	0.000000	-20.000000	0.000000
1993	10	22	0	0	0.000000	-20.000000	0.000000
1993	10	23	0	0	0.000000	-20.000000	0.000000
1993	10	24	0	0	0.000000	-35.470000	0.000000
1993	10	25	0	0	0.000000	-195.380000	0.000000
1993	10	26	0	0	0.000000	-234.350000	0.000000
1993	10	27	0	0	0.000000	-20.000000	0.000000
1993	10	28	0	0	0.000000	-180.600000	0.000000
1993	10	29	0	0	0.000000	-20.000000	0.000000
1993	10	30	0	0	0.000000	-20.000000	0.000000
1993	10	31	0	0	0.000000	-20.000000	0.000000
1993	11	1	0	0	0.000000	-179.920000	0.000000
1993	11	2	0	0	0.000000	-302.200000	0.000000
1993	11	3	0	0	0.000000	-263.240000	0.000000
1993	11	4	0	0	0.000000	-37.490000	0.000000
1993	11	5	0	0	0.000000	-20.000000	0.000000
1993	11	6	0	0	0.000000	-282.050000	0.000000
1993	11	7	0	0	0.000000	-98.630000	0.000000
1993	11	8	0	0	0.000000	-25.400000	0.000000
1993	11	9	0	0	0.000000	-61.010000	0.000000
1993	11	10	0	0	0.000000	-20.000000	0.000000
1993	11	11	0	0	0.000000	-20.000000	0.000000
1993	11	12	0	0	0.000000	-20.000000	0.000000
1993	11	13	0	0	0.000000	-20.000000	0.000000
1993	11	14	0	0	0.000000	-20.000000	0.000000
1993	11	15	0	0	0.000000	-50.930000	0.000000
1993	11	16	0	0	0.000000	-245.100000	0.000000
1993	11	17	0	0	0.000000	-323.700000	0.000000
1993	11	18	0	0	0.000000	-325.720000	0.000000
1993	11	19	0	0	0.000000	-20.000000	0.000000
1993	11	20	0	0	0.000000	-20.000000	0.000000
1993	11	21	0	0	0.000000	-20.000000	0.000000
1993	11	22	0	0	0.000000	-179.250000	0.000000
1993	11	23	0	0	0.000000	-248.450000	0.000000
1993	11	24	0	0	0.000000	-20.000000	0.000000
1993	11	25	0	0	0.000000	-20.000000	0.000000
1993	11	26	0	0	0.000000	-20.000000	0.000000
1993	11	27	0	0	0.000000	-309.590000	0.000000
1993	11	28	0	0	0.000000	-52.270000	0.000000
1993	11	29	0	0	0.000000	-20.000000	0.000000
1993	11	30	0	0	0.000000	-42.190000	0.000000
1993	12	1	0	0	0.000000	-20.000000	0.000000
1993	12	2	0	0	0.000000	-20.000000	0.000000
1993	12	3	0	0	0.000000	-20.000000	0.000000
1993	12	4	0	0	0.000000	-20.000000	0.000000
1993	12	5	0	0	0.000000	-20.000000	0.000000
1993	12	6	0	0	0.000000	-29.430000	0.000000
1993	12	7	0	0	0.000000	-20.000000	0.000000
1993	12	8	0	0	0.000000	-70.410000	0.000000
1993	12	9	0	0	0.000000	-91.240000	0.000000
1993	12	10	0	0	0.000000	-28.760000	0.000000
1993	12	11	0	0	0.000000	-20.000000	0.000000
1993	12	12	0	0	0.000000	-165.140000	0.000000
1993	12	13	0	0	0.000000	-69.070000	0.000000
1993	12	14	0	0	0.000000	-20.000000	0.000000
1993	12	15	0	0	0.000000	-20.000000	0.000000
1993	12	16	0	0	0.000000	-20.000000	0.000000
1993	12	17	0	0	0.000000	-20.000000	0.000000
1993	12	18	0	0	0.000000	-20.000000	0.000000
1993	12	19	0	0	0.000000	-20.000000	0.000000
1993	12	20	0	0	0.000000	-20.000000	0.000000
1993	12	21	0	0	0.000000	-242.410000	0.000000
1993	12	22	0	0	0.000000	-98.630000	0.000000
1993	12	23	0	0	0.000000	-20.000000	0.000000
1993	12	24	0	0	0.000000	-20.000000	0.000000
1993	12	25	0	0	0.000000	-20.000000	0.000000
1993	12	26	0	0	0.000000	-20.000000	0.000000
1993	12	27	0	0	0.000000	-20.000000	0.000000
1993	12	28	0	0	0.000000	-20.000000	0.000000

1993	12	29	0	0	0.000000	-23.380000	0.000000
1993	12	30	0	0	0.000000	-20.000000	0.000000
1993	12	31	0	0	0.000000	-20.000000	0.000000
1994	1	1	0	0	0.000000	-20.000000	0.000000
1994	1	2	0	0	0.000000	-20.000000	0.000000
1994	1	3	0	0	0.000000	-20.000000	0.000000
1994	1	4	0	0	0.000000	-20.000000	0.000000
1994	1	5	0	0	0.000000	-20.000000	0.000000
1994	1	6	0	0	0.000000	-20.000000	0.000000
1994	1	7	0	0	0.000000	-27.410000	0.000000
1994	1	8	0	0	0.000000	-20.000000	0.000000
1994	1	9	0	0	0.000000	-20.000000	0.000000
1994	1	10	0	0	0.000000	-20.000000	0.000000
1994	1	11	0	0	0.000000	-79.150000	0.000000
1994	1	12	0	0	0.000000	-20.000000	0.000000
1994	1	13	0	0	0.000000	-20.000000	0.000000
1994	1	14	0	0	0.000000	-39.510000	0.000000
1994	1	15	0	0	0.000000	-20.000000	0.000000
1994	1	16	0	0	0.000000	-20.000000	0.000000
1994	1	17	0	0	0.000000	-73.770000	0.000000
1994	1	18	0	0	0.000000	-20.000000	0.000000
1994	1	19	0	0	0.000000	-20.000000	0.000000
1994	1	20	0	0	0.000000	-20.000000	0.000000
1994	1	21	0	0	0.000000	-20.000000	0.000000
1994	1	22	0	0	0.000000	-20.000000	0.000000
1994	1	23	0	0	0.000000	-20.000000	0.000000
1994	1	24	0	0	0.000000	-20.000000	0.000000
1994	1	25	0	0	0.000000	-20.000000	0.000000
1994	1	26	0	0	0.000000	-20.000000	0.000000
1994	1	27	0	0	0.000000	-147.680000	0.000000
1994	1	28	0	0	0.000000	-59.660000	0.000000
1994	1	29	0	0	0.000000	-74.440000	0.000000
1994	1	30	0	0	0.000000	-24.050000	0.000000
1994	1	31	0	0	0.000000	-20.000000	0.000000
1994	2	1	0	0	0.000000	-20.000000	0.000000
1994	2	2	0	0	0.000000	-20.000000	0.000000
1994	2	3	0	0	0.000000	-20.000000	0.000000
1994	2	4	0	0	0.000000	-20.000000	0.000000
1994	2	5	0	0	0.000000	-20.000000	0.000000
1994	2	6	0	0	0.000000	-20.000000	0.000000
1994	2	7	0	0	0.000000	-20.000000	0.000000
1994	2	8	0	0	0.000000	-20.000000	0.000000
1994	2	9	0	0	0.000000	-20.000000	0.000000
1994	2	10	0	0	0.000000	-20.000000	0.000000
1994	2	11	0	0	0.000000	-20.000000	0.000000
1994	2	12	0	0	0.000000	-20.000000	0.000000
1994	2	13	0	0	0.000000	-20.000000	0.000000
1994	2	14	0	0	0.000000	-20.000000	0.000000
1994	2	15	0	0	0.000000	-20.000000	0.000000
1994	2	16	0	0	0.000000	-20.000000	0.000000
1994	2	17	0	0	0.000000	-20.000000	0.000000
1994	2	18	0	0	0.000000	-30.770000	0.000000
1994	2	19	0	0	0.000000	-20.000000	0.000000
1994	2	20	0	0	0.000000	-20.000000	0.000000
1994	2	21	0	0	0.000000	-20.000000	0.000000
1994	2	22	0	0	0.000000	-20.000000	0.000000
1994	2	23	0	0	0.000000	-50.260000	0.000000
1994	2	24	0	0	0.000000	-57.650000	0.000000
1994	2	25	0	0	0.000000	-20.000000	0.000000
1994	2	26	0	0	0.000000	-20.000000	0.000000
1994	2	27	0	0	0.000000	-20.000000	0.000000
1994	2	28	0	0	0.000000	-20.000000	0.000000
1994	3	1	0	0	0.000000	-20.000000	0.000000
1994	3	2	0	0	0.000000	-20.000000	0.000000
1994	3	3	0	0	0.000000	-20.000000	0.000000
1994	3	4	0	0	0.000000	-20.000000	0.000000
1994	3	5	0	0	0.000000	-20.000000	0.000000
1994	3	6	0	0	0.000000	-20.000000	0.000000
1994	3	7	0	0	0.000000	-136.250000	0.000000
1994	3	8	0	0	0.000000	-256.520000	0.000000
1994	3	9	0	0	0.000000	-20.000000	0.000000
1994	3	10	0	0	0.000000	-20.000000	0.000000
1994	3	11	0	0	0.000000	-20.000000	0.000000
1994	3	12	0	0	0.000000	-20.000000	0.000000
1994	3	13	0	0	0.000000	-20.000000	0.000000
1994	3	14	0	0	0.000000	-20.000000	0.000000
1994	3	15	0	0	0.000000	-20.000000	0.000000
1994	3	16	0	0	0.000000	-20.000000	0.000000
1994	3	17	0	0	0.000000	-20.000000	0.000000
1994	3	18	0	0	0.000000	-20.000000	0.000000
1994	3	19	0	0	0.000000	-20.000000	0.000000
1994	3	20	0	0	0.000000	-108.040000	0.000000
1994	3	21	0	0	0.000000	-241.060000	0.000000
1994	3	22	0	0	0.000000	-20.000000	0.000000
1994	3	23	0	0	0.000000	-20.000000	0.000000
1994	3	24	0	0	0.000000	-20.000000	0.000000
1994	3	25	0	0	0.000000	-20.000000	0.000000
1994	3	26	0	0	0.000000	-20.000000	0.000000
1994	3	27	0	0	0.000000	-20.000000	0.000000
1994	3	28	0	0	0.000000	-20.000000	0.000000
1994	3	29	0	0	0.000000	-20.000000	0.000000
1994	3	30	0	0	0.000000	-20.000000	0.000000
1994	3	31	0	0	0.000000	-20.000000	0.000000
1994	4	1	0	0	0.000000	-20.000000	0.000000
1994	4	2	0	0	0.000000	-20.000000	0.000000
1994	4	3	0	0	0.000000	-20.000000	0.000000
1994	4	4	0	0	0.000000	-20.000000	0.000000
1994	4	5	0	0	0.000000	-20.000000	0.000000
1994	4	6	0	0	0.000000	-20.000000	0.000000
1994	4	7	0	0	0.000000	-134.910000	0.000000
1994	4	8	0	0	0.000000	-20.000000	0.000000
1994	4	9	0	0	0.000000	-20.000000	0.000000
1994	4	10	0	0	0.000000	-20.000000	0.000000
1994	4	11	0	0	0.000000	-20.000000	0.000000
1994	4	12	0	0	0.000000	-20.000000	0.000000
1994	4	13	0	0	0.000000	-20.000000	0.000000
1994	4	14	0	0	0.000000	-20.000000	0.000000
1994	4	15	0	0	0.000000	-20.000000	0.000000
1994	4	16	0	0	0.000000	-20.000000	0.000000
1994	4	17	0	0	0.000000	-20.000000	0.000000
1994	4	18	0	0	0.000000	-20.000000	0.000000
1994	4	19	0	0	0.000000	-20.000000	0.000000
1994	4	20	0	0	0.000000	-20.000000	0.000000
1994	4	21	0	0	0.000000	-20.000000	0.000000
1994	4	22	0	0	0.000000	-20.000000	0.000000
1994	4	23	0	0	0.000000	-20.000000	0.000000
1994	4	24	0	0	0.000000	-197.390000	0.000000
1994	4	25	0	0	0.000000	-189.330000	0.000000
1994	4	26	0	0	0.000000	-20.000000	0.000000
1994	4	27	0	0	0.000000	-20.000000	0.000000
1994	4	28	0	0	0.000000	-194.710000	0.000000
1994	4	29	0	0	0.000000	-39.510000	0.000000
1994	4	30	0	0	0.000000	-20.000000	0.000000
1994	5	1	0	0	0.000000	-20.000000	0.000000
1994	5	2	0	0	0.000000	-73.770000	0.000000
1994	5	3	0	0	0.000000	-38.830000	0.000000
1994	5	4	0	0	0.000000	-20.000000	0.000000
1994	5	5	0	0	0.000000	-20.000000	0.000000
1994	5	6	0	0	0.000000	-20.000000	0.000000
1994	5	7	0	0	0.000000	-20.000000	0.000000
1994	5	8	0	0	0.000000	-20.000000	0.000000
1994	5	9	0	0	0.000000	-20.000000	0.000000
1994	5	10	0	0	0.000000	-38.830000	0.000000
1994	5	11	0	0	0.000000	-20.000000	0.000000
1994	5	12	0	0	0.000000	-68.400000	0.000000
1994	5	13	0	0	0.000000	-202.100000	0.000000
1994	5	14	0	0	0.000000	-77.800000	0.000000
1994	5	15	0	0	0.000000	-20.000000	0.000000
1994	5	16	0	0	0.000000	-20.000000	0.000000
1994	5	17	0	0	0.000000	-20.000000	0.000000

1994	5	18	0	0	0.000000	-20.000000	0.000000
1994	5	19	0	0	0.000000	-126.850000	0.000000
1994	5	20	0	0	0.000000	-25.400000	0.000000
1994	5	21	0	0	0.000000	-225.610000	0.000000
1994	5	22	0	0	0.000000	-45.550000	0.000000
1994	5	23	0	0	0.000000	-397.610000	0.000000
1994	5	24	0	0	0.000000	-20.000000	0.000000
1994	5	25	0	0	0.000000	-20.000000	0.000000
1994	5	26	0	0	0.000000	-20.000000	0.000000
1994	5	27	0	0	0.000000	-175.220000	0.000000
1994	5	28	0	0	0.000000	-20.000000	0.000000
1994	5	29	0	0	0.000000	-20.000000	0.000000
1994	5	30	0	0	0.000000	-20.000000	0.000000
1994	5	31	0	0	0.000000	-20.000000	0.000000
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1994	6	2	0	0	0.000000	-20.000000	0.000000
1994	6	3	0	0	0.000000	-20.000000	0.000000
1994	6	4	0	0	0.000000	-20.000000	0.000000
1994	6	5	0	0	0.000000	-20.000000	0.000000
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1994	6	7	0	0	0.000000	-20.000000	0.000000
1994	6	8	0	0	0.000000	-20.000000	0.000000
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1994	6	10	0	0	0.000000	-20.000000	0.000000
1994	6	11	0	0	0.000000	-20.000000	0.000000
1994	6	12	0	0	0.000000	-20.000000	0.000000
1994	6	13	0	0	0.000000	-20.000000	0.000000
1994	6	14	0	0	0.000000	-20.000000	0.000000
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1994	6	20	0	0	0.000000	-20.000000	0.000000
1994	6	21	0	0	0.000000	-20.000000	0.000000
1994	6	22	0	0	0.000000	-20.000000	0.000000
1994	6	23	0	0	0.000000	-20.000000	0.000000
1994	6	24	0	0	0.000000	-20.000000	0.000000
1994	6	25	0	0	0.000000	-20.000000	0.000000
1994	6	26	0	0	0.000000	-20.000000	0.000000
1994	6	27	0	0	0.000000	-20.000000	0.000000
1994	6	28	0	0	0.000000	-20.000000	0.000000
1994	6	29	0	0	0.000000	-20.000000	0.000000
1994	6	30	0	0	0.000000	-20.000000	0.000000
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1994	7	2	0	0	0.000000	-20.000000	0.000000
1994	7	3	0	0	0.000000	-20.000000	0.000000
1994	7	4	0	0	0.000000	-20.000000	0.000000
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1994	7	7	0	0	0.000000	-20.000000	0.000000
1994	7	8	0	0	0.000000	-20.000000	0.000000
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1994	7	12	0	0	0.000000	-20.000000	0.000000
1994	7	13	0	0	0.000000	-20.000000	0.000000
1994	7	14	0	0	0.000000	-20.000000	0.000000
1994	7	15	0	0	0.000000	-20.000000	0.000000
1994	7	16	0	0	0.000000	-20.000000	0.000000
1994	7	17	0	0	0.000000	-20.000000	0.000000
1994	7	18	0	0	0.000000	-20.000000	0.000000
1994	7	19	0	0	0.000000	-20.000000	0.000000
1994	7	20	0	0	0.000000	-20.000000	0.000000
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1994	7	25	0	0	0.000000	-20.000000	0.000000
1994	7	26	0	0	0.000000	-20.000000	0.000000
1994	7	27	0	0	0.000000	-20.000000	0.000000
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1994	7	29	0	0	0.000000	-20.000000	0.000000
1994	7	30	0	0	0.000000	-20.000000	0.000000
1994	7	31	0	0	0.000000	-20.000000	0.000000
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1994	8	2	0	0	0.000000	-20.000000	0.000000
1994	8	3	0	0	0.000000	-20.000000	0.000000
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1994	8	14	0	0	0.000000	-20.000000	0.000000
1994	8	15	0	0	0.000000	-20.000000	0.000000
1994	8	16	0	0	0.000000	-20.000000	0.000000
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1994	8	18	0	0	0.000000	-20.000000	0.000000
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1994	8	22	0	0	0.000000	-20.000000	0.000000
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1994	8	29	0	0	0.000000	-20.000000	0.000000
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1994	9	3	0	0	0.000000	-20.000000	0.000000
1994	9	4	0	0	0.000000	-20.000000	0.000000
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1994	9	20	0	0	0.000000	-20.000000	0.000000
1994	9	21	0	0	0.000000	-20.000000	0.000000
1994	9	22	0	0	0.000000	-20.000000	0.000000
1994	9	23	0	0	0.000000	-20.000000	0.000000
1994	9	24	0	0	0.000000	-20.000000	0.000000
1994	9	25	0	0	0.000000	-20.000000	0.000000
1994	9	26	0	0	0.000000	-34.800000	0.000000
1994	9	27	0	0	0.000000	-20.000000	0.000000
1994	9	28	0	0	0.000000	-20.000000	0.000000
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1994	10	3	0	0	0.000000	-33.460000	0.000000
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1994	10	13	0	0	0.000000	-206.800000	0.000000
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1994	10	17	0	0	0.000000	-119.460000	0.000000
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1994	10	22	0	0	0.000000	-20.000000	0.000000
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1995	1	3	0	0	0.000000	-20.000000	0.000000
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1995	1	18	0	0	0.000000	-20.000000	0.000000
1995	1	19	0	0	0.000000	-38.830000	0.000000
1995	1	20	0	0	0.000000	-20.000000	0.000000
1995	1	21	0	0	0.000000	-20.000000	0.000000
1995	1	22	0	0	0.000000	-20.000000	0.000000
1995	1	23	0	0	0.000000	-20.000000	0.000000
1995	1	24	0	0	0.000000	-20.000000	0.000000
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1995	1	27	0	0	0.000000	-20.000000	0.000000
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1995	2	3	0	0	0.000000	-20.000000	0.000000
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1995	2	10	0	0	0.000000	-20.000000	0.000000
1995	2	11	0	0	0.000000	-20.000000	0.000000
1995	2	12	0	0	0.000000	-20.000000	0.000000
1995	2	13	0	0	0.000000	-20.000000	0.000000
1995	2	14	0	0	0.000000	-20.000000	0.000000
1995	2	15	0	0	0.000000	-20.000000	0.000000
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1995	2	18	0	0	0.000000	-20.000000	0.000000
1995	2	19	0	0	0.000000	-20.000000	0.000000
1995	2	20	0	0	0.000000	-20.000000	0.000000
1995	2	21	0	0	0.000000	-20.000000	0.000000

1995	2	22	0	0	0.000000	-20.000000	0.000000
1995	2	23	0	0	0.000000	-20.000000	0.000000
1995	2	24	0	0	0.000000	-20.000000	0.000000
1995	2	25	0	0	0.000000	-20.000000	0.000000
1995	2	26	0	0	0.000000	-20.000000	0.000000
1995	2	27	0	0	0.000000	-20.000000	0.000000
1995	2	28	0	0	0.000000	-20.000000	0.000000
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1995	3	2	0	0	0.000000	-319.670000	0.000000
1995	3	3	0	0	0.000000	-339.830000	0.000000
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1995	3	7	0	0	0.000000	-20.000000	0.000000
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1995	3	9	0	0	0.000000	-20.000000	0.000000
1995	3	10	0	0	0.000000	-20.000000	0.000000
1995	3	11	0	0	0.000000	-20.000000	0.000000
1995	3	12	0	0	0.000000	-20.000000	0.000000
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1995	3	16	0	0	0.000000	-20.000000	0.000000
1995	3	17	0	0	0.000000	-20.000000	0.000000
1995	3	18	0	0	0.000000	-20.000000	0.000000
1995	3	19	0	0	0.000000	-20.000000	0.000000
1995	3	20	0	0	0.000000	-96.610000	0.000000
1995	3	21	0	0	0.000000	-20.000000	0.000000
1995	3	22	0	0	0.000000	-20.000000	0.000000
1995	3	23	0	0	0.000000	-20.000000	0.000000
1995	3	24	0	0	0.000000	-111.390000	0.000000
1995	3	25	0	0	0.000000	-28.760000	0.000000
1995	3	26	0	0	0.000000	-20.000000	0.000000
1995	3	27	0	0	0.000000	-20.000000	0.000000
1995	3	28	0	0	0.000000	-20.000000	0.000000
1995	3	29	0	0	0.000000	-20.000000	0.000000
1995	3	30	0	0	0.000000	-26.740000	0.000000
1995	3	31	0	0	0.000000	-20.000000	0.000000
1995	4	1	0	0	0.000000	-20.000000	0.000000
1995	4	2	0	0	0.000000	-20.000000	0.000000
1995	4	3	0	0	0.000000	-20.000000	0.000000
1995	4	4	0	0	0.000000	-20.000000	0.000000
1995	4	5	0	0	0.000000	-20.000000	0.000000
1995	4	6	0	0	0.000000	-20.000000	0.000000
1995	4	7	0	0	0.000000	-20.000000	0.000000
1995	4	8	0	0	0.000000	-20.000000	0.000000
1995	4	9	0	0	0.000000	-20.000000	0.000000
1995	4	10	0	0	0.000000	-20.000000	0.000000
1995	4	11	0	0	0.000000	-20.000000	0.000000
1995	4	12	0	0	0.000000	-44.880000	0.000000
1995	4	13	0	0	0.000000	-20.000000	0.000000
1995	4	14	0	0	0.000000	-20.000000	0.000000
1995	4	15	0	0	0.000000	-20.000000	0.000000
1995	4	16	0	0	0.000000	-20.000000	0.000000
1995	4	17	0	0	0.000000	-20.000000	0.000000
1995	4	18	0	0	0.000000	-20.000000	0.000000
1995	4	19	0	0	0.000000	-20.000000	0.000000
1995	4	20	0	0	0.000000	-20.000000	0.000000
1995	4	21	0	0	0.000000	-20.000000	0.000000
1995	4	22	0	0	0.000000	-20.000000	0.000000
1995	4	23	0	0	0.000000	-20.000000	0.000000
1995	4	24	0	0	0.000000	-20.000000	0.000000
1995	4	25	0	0	0.000000	-20.000000	0.000000
1995	4	26	0	0	0.000000	-20.000000	0.000000
1995	4	27	0	0	0.000000	-20.000000	0.000000
1995	4	28	0	0	0.000000	-20.000000	0.000000
1995	4	29	0	0	0.000000	-20.000000	0.000000
1995	4	30	0	0	0.000000	-20.000000	0.000000
1995	5	1	0	0	0.000000	-20.000000	0.000000
1995	5	2	0	0	0.000000	-20.000000	0.000000
1995	5	3	0	0	0.000000	-20.000000	0.000000
1995	5	4	0	0	0.000000	-20.000000	0.000000
1995	5	5	0	0	0.000000	-98.630000	0.000000
1995	5	6	0	0	0.000000	-20.000000	0.000000
1995	5	7	0	0	0.000000	-20.000000	0.000000
1995	5	8	0	0	0.000000	-20.000000	0.000000
1995	5	9	0	0	0.000000	-20.000000	0.000000
1995	5	10	0	0	0.000000	-398.950000	0.000000
1995	5	11	0	0	0.000000	-254.500000	0.000000
1995	5	12	0	0	0.000000	-84.520000	0.000000
1995	5	13	0	0	0.000000	-20.000000	0.000000
1995	5	14	0	0	0.000000	-112.070000	0.000000
1995	5	15	0	0	0.000000	-215.530000	0.000000
1995	5	16	0	0	0.000000	-488.310000	0.000000
1995	5	17	0	0	0.000000	-476.890000	0.000000
1995	5	18	0	0	0.000000	-132.220000	0.000000
1995	5	19	0	0	0.000000	-194.030000	0.000000
1995	5	20	0	0	0.000000	-388.200000	0.000000
1995	5	21	0	0	0.000000	-89.220000	0.000000
1995	5	22	0	0	0.000000	-201.420000	0.000000
1995	5	23	0	0	0.000000	-75.790000	0.000000
1995	5	24	0	0	0.000000	-357.970000	0.000000
1995	5	25	0	0	0.000000	-164.470000	0.000000
1995	5	26	0	0	0.000000	-20.000000	0.000000
1995	5	27	0	0	0.000000	-20.000000	0.000000
1995	5	28	0	0	0.000000	-163.130000	0.000000
1995	5	29	0	0	0.000000	-499.060000	0.000000
1995	5	30	0	0	0.000000	-629.400000	0.000000
1995	5	31	0	0	0.000000	-480.250000	0.000000
1995	6	1	0	0	0.000000	-161.110000	0.000000
1995	6	2	0	0	0.000000	-147.680000	0.000000
1995	6	3	0	0	0.000000	-99.300000	0.000000
1995	6	4	0	0	0.000000	-20.000000	0.000000
1995	6	5	0	0	0.000000	-251.810000	0.000000
1995	6	6	0	0	0.000000	-280.030000	0.000000
1995	6	7	0	0	0.000000	-108.710000	0.000000
1995	6	8	0	0	0.000000	-259.880000	0.000000
1995	6	9	0	0	0.000000	-104.680000	0.000000
1995	6	10	0	0	0.000000	-132.220000	0.000000
1995	6	11	0	0	0.000000	-343.860000	0.000000
1995	6	12	0	0	0.000000	-290.780000	0.000000
1995	6	13	0	0	0.000000	-263.240000	0.000000
1995	6	14	0	0	0.000000	-131.550000	0.000000
1995	6	15	0	0	0.000000	-288.770000	0.000000
1995	6	16	0	0	0.000000	-269.280000	0.000000
1995	6	17	0	0	0.000000	-31.440000	0.000000
1995	6	18	0	0	0.000000	-20.000000	0.000000
1995	6	19	0	0	0.000000	-25.400000	0.000000
1995	6	20	0	0	0.000000	-90.570000	0.000000
1995	6	21	0	0	0.000000	-20.000000	0.000000
1995	6	22	0	0	0.000000	-207.470000	0.000000
1995	6	23	0	0	0.000000	-29.430000	0.000000
1995	6	24	0	0	0.000000	-20.000000	0.000000
1995	6	25	0	0	0.000000	-20.000000	0.000000
1995	6	26	0	0	0.000000	-20.000000	0.000000
1995	6	27	0	0	0.000000	-114.750000	0.000000
1995	6	28	0	0	0.000000	-36.820000	0.000000
1995	6	29	0	0	0.000000	-219.560000	0.000000
1995	6	30	0	0	0.000000	-125.500000	0.000000
1995	7	1	0	0	0.000000	-20.000000	0.000000
1995	7	2	0	0	0.000000	-28.080000	0.000000
1995	7	3	0	0	0.000000	-20.000000	0.000000
1995	7	4	0	0	0.000000	-20.000000	0.000000
1995	7	5	0	0	0.000000	-187.990000	0.000000
1995	7	6	0	0	0.000000	-25.400000	0.000000
1995	7	7	0	0	0.000000	-20.000000	0.000000
1995	7	8	0	0	0.000000	-20.000000	0.000000
1995	7	9	0	0	0.000000	-20.000000	0.000000
1995	7	10	0	0	0.000000	-99.970000	0.000000
1995	7	11	0	0	0.000000	-164.470000	0.000000

1995	7	12	0	0	0.000000	-82.500000	0.000000
1995	7	13	0	0	0.000000	-204.780000	0.000000
1995	7	14	0	0	0.000000	-290.780000	0.000000
1995	7	15	0	0	0.000000	-108.710000	0.000000
1995	7	16	0	0	0.000000	-120.800000	0.000000
1995	7	17	0	0	0.000000	-327.060000	0.000000
1995	7	18	0	0	0.000000	-337.140000	0.000000
1995	7	19	0	0	0.000000	-260.550000	0.000000
1995	7	20	0	0	0.000000	-35.470000	0.000000
1995	7	21	0	0	0.000000	-20.000000	0.000000
1995	7	22	0	0	0.000000	-20.000000	0.000000
1995	7	23	0	0	0.000000	-20.000000	0.000000
1995	7	24	0	0	0.000000	-140.280000	0.000000
1995	7	25	0	0	0.000000	-24.720000	0.000000
1995	7	26	0	0	0.000000	-124.160000	0.000000
1995	7	27	0	0	0.000000	-141.630000	0.000000
1995	7	28	0	0	0.000000	-65.040000	0.000000
1995	7	29	0	0	0.000000	-183.280000	0.000000
1995	7	30	0	0	0.000000	-20.000000	0.000000
1995	7	31	0	0	0.000000	-118.110000	0.000000
1995	8	1	0	0	0.000000	-20.000000	0.000000
1995	8	2	0	0	0.000000	-20.000000	0.000000
1995	8	3	0	0	0.000000	-79.820000	0.000000
1995	8	4	0	0	0.000000	-43.540000	0.000000
1995	8	5	0	0	0.000000	-20.000000	0.000000
1995	8	6	0	0	0.000000	-20.000000	0.000000
1995	8	7	0	0	0.000000	-20.000000	0.000000
1995	8	8	0	0	0.000000	-20.000000	0.000000
1995	8	9	0	0	0.000000	-20.000000	0.000000
1995	8	10	0	0	0.000000	-20.000000	0.000000
1995	8	11	0	0	0.000000	-20.000000	0.000000
1995	8	12	0	0	0.000000	-20.000000	0.000000
1995	8	13	0	0	0.000000	-20.000000	0.000000
1995	8	14	0	0	0.000000	-20.000000	0.000000
1995	8	15	0	0	0.000000	-20.000000	0.000000
1995	8	16	0	0	0.000000	-20.000000	0.000000
1995	8	17	0	0	0.000000	-20.000000	0.000000
1995	8	18	0	0	0.000000	-20.000000	0.000000
1995	8	19	0	0	0.000000	-37.490000	0.000000
1995	8	20	0	0	0.000000	-20.000000	0.000000
1995	8	21	0	0	0.000000	-114.750000	0.000000
1995	8	22	0	0	0.000000	-20.000000	0.000000
1995	8	23	0	0	0.000000	-20.000000	0.000000
1995	8	24	0	0	0.000000	-173.210000	0.000000
1995	8	25	0	0	0.000000	-79.150000	0.000000
1995	8	26	0	0	0.000000	-20.000000	0.000000
1995	8	27	0	0	0.000000	-20.000000	0.000000
1995	8	28	0	0	0.000000	-20.000000	0.000000
1995	8	29	0	0	0.000000	-20.000000	0.000000
1995	8	30	0	0	0.000000	-22.040000	0.000000
1995	8	31	0	0	0.000000	-20.000000	0.000000
1995	9	1	0	0	0.000000	-20.000000	0.000000
1995	9	2	0	0	0.000000	-20.000000	0.000000
1995	9	3	0	0	0.000000	-20.000000	0.000000
1995	9	4	0	0	0.000000	-20.000000	0.000000
1995	9	5	0	0	0.000000	-20.000000	0.000000
1995	9	6	0	0	0.000000	-20.000000	0.000000
1995	9	7	0	0	0.000000	-327.060000	0.000000
1995	9	8	0	0	0.000000	-263.240000	0.000000
1995	9	9	0	0	0.000000	-20.000000	0.000000
1995	9	10	0	0	0.000000	-20.000000	0.000000
1995	9	11	0	0	0.000000	-136.930000	0.000000
1995	9	12	0	0	0.000000	-20.000000	0.000000
1995	9	13	0	0	0.000000	-48.910000	0.000000
1995	9	14	0	0	0.000000	-38.160000	0.000000
1995	9	15	0	0	0.000000	-30.100000	0.000000
1995	9	16	0	0	0.000000	-2322.490000	0.000000
1995	9	17	0	0	0.000000	-1180.330000	0.000000
1995	9	18	0	0	0.000000	-467.480000	0.000000
1995	9	19	0	0	0.000000	-364.020000	0.000000
1995	9	20	0	0	0.000000	-382.160000	0.000000
1995	9	21	0	0	0.000000	-394.920000	0.000000
1995	9	22	0	0	0.000000	-273.990000	0.000000
1995	9	23	0	0	0.000000	-206.130000	0.000000
1995	9	24	0	0	0.000000	-132.220000	0.000000
1995	9	25	0	0	0.000000	-40.850000	0.000000
1995	9	26	0	0	0.000000	-206.130000	0.000000
1995	9	27	0	0	0.000000	-182.610000	0.000000
1995	9	28	0	0	0.000000	-444.640000	0.000000
1995	9	29	0	0	0.000000	-280.700000	0.000000
1995	9	30	0	0	0.000000	-244.420000	0.000000
1995	10	1	0	0	0.000000	-179.920000	0.000000
1995	10	2	0	0	0.000000	-407.010000	0.000000
1995	10	3	0	0	0.000000	-360.660000	0.000000
1995	10	4	0	0	0.000000	-222.250000	0.000000
1995	10	5	0	0	0.000000	-208.810000	0.000000
1995	10	6	0	0	0.000000	-217.550000	0.000000
1995	10	7	0	0	0.000000	-192.020000	0.000000
1995	10	8	0	0	0.000000	-200.080000	0.000000
1995	10	9	0	0	0.000000	-200.080000	0.000000
1995	10	10	0	0	0.000000	-178.580000	0.000000
1995	10	11	0	0	0.000000	-73.100000	0.000000
1995	10	12	0	0	0.000000	-59.660000	0.000000
1995	10	13	0	0	0.000000	-20.000000	0.000000
1995	10	14	0	0	0.000000	-76.460000	0.000000
1995	10	15	0	0	0.000000	-93.930000	0.000000
1995	10	16	0	0	0.000000	-231.660000	0.000000
1995	10	17	0	0	0.000000	-337.810000	0.000000
1995	10	18	0	0	0.000000	-378.120000	0.000000
1995	10	19	0	0	0.000000	-211.500000	0.000000
1995	10	20	0	0	0.000000	-116.100000	0.000000
1995	10	21	0	0	0.000000	-120.800000	0.000000
1995	10	22	0	0	0.000000	-294.140000	0.000000
1995	10	23	0	0	0.000000	-174.550000	0.000000
1995	10	24	0	0	0.000000	-191.350000	0.000000
1995	10	25	0	0	0.000000	-259.200000	0.000000
1995	10	26	0	0	0.000000	-298.170000	0.000000
1995	10	27	0	0	0.000000	-428.510000	0.000000
1995	10	28	0	0	0.000000	-290.110000	0.000000
1995	10	29	0	0	0.000000	-253.830000	0.000000
1995	10	30	0	0	0.000000	-208.140000	0.000000
1995	10	31	0	0	0.000000	-148.350000	0.000000
1995	11	1	0	0	0.000000	-215.530000	0.000000
1995	11	2	0	0	0.000000	-218.220000	0.000000
1995	11	3	0	0	0.000000	-152.380000	0.000000
1995	11	4	0	0	0.000000	-20.000000	0.000000
1995	11	5	0	0	0.000000	-34.130000	0.000000
1995	11	6	0	0	0.000000	-143.640000	0.000000
1995	11	7	0	0	0.000000	-167.160000	0.000000
1995	11	8	0	0	0.000000	-198.740000	0.000000
1995	11	9	0	0	0.000000	-174.550000	0.000000
1995	11	10	0	0	0.000000	-390.890000	0.000000
1995	11	11	0	0	0.000000	-219.560000	0.000000
1995	11	12	0	0	0.000000	-177.910000	0.000000
1995	11	13	0	0	0.000000	-149.020000	0.000000
1995	11	14	0	0	0.000000	-151.710000	0.000000
1995	11	15	0	0	0.000000	-148.350000	0.000000
1995	11	16	0	0	0.000000	-140.280000	0.000000
1995	11	17	0	0	0.000000	-81.830000	0.000000
1995	11	18	0	0	0.000000	-20.000000	0.000000
1995	11	19	0	0	0.000000	-20.000000	0.000000
1995	11	20	0	0	0.000000	-87.210000	0.000000
1995	11	21	0	0	0.000000	-144.990000	0.000000
1995	11	22	0	0	0.000000	-106.690000	0.000000
1995	11	23	0	0	0.000000	-46.900000	0.000000
1995	11	24	0	0	0.000000	-25.400000	0.000000
1995	11	25	0	0	0.000000	-24.050000	0.000000
1995	11	26	0	0	0.000000	-75.110000	0.000000
1995	11	27	0	0	0.000000	-45.550000	0.000000
1995	11	28	0	0	0.000000	-44.880000	0.000000

1995	11	29	0	0	0.000000	-20.690000	0.000000
1995	11	30	0	0	0.000000	-31.440000	0.000000
1995	12	1	0	0	0.000000	-88.550000	0.000000
1995	12	2	0	0	0.000000	-20.000000	0.000000
1995	12	3	0	0	0.000000	-20.000000	0.000000
1995	12	4	0	0	0.000000	-72.430000	0.000000
1995	12	5	0	0	0.000000	-122.820000	0.000000
1995	12	6	0	0	0.000000	-171.190000	0.000000
1995	12	7	0	0	0.000000	-180.600000	0.000000
1995	12	8	0	0	0.000000	-106.690000	0.000000
1995	12	9	0	0	0.000000	-32.120000	0.000000
1995	12	10	0	0	0.000000	-20.000000	0.000000
1995	12	11	0	0	0.000000	-20.000000	0.000000
1995	12	12	0	0	0.000000	-20.000000	0.000000
1995	12	13	0	0	0.000000	-20.020000	0.000000
1995	12	14	0	0	0.000000	-140.960000	0.000000
1995	12	15	0	0	0.000000	-155.070000	0.000000
1995	12	16	0	0	0.000000	-97.290000	0.000000
1995	12	17	0	0	0.000000	-29.430000	0.000000
1995	12	18	0	0	0.000000	-73.100000	0.000000
1995	12	19	0	0	0.000000	-20.000000	0.000000
1995	12	20	0	0	0.000000	-96.610000	0.000000
1995	12	21	0	0	0.000000	-78.470000	0.000000
1995	12	22	0	0	0.000000	-20.000000	0.000000
1995	12	23	0	0	0.000000	-20.000000	0.000000
1995	12	24	0	0	0.000000	-20.000000	0.000000
1995	12	25	0	0	0.000000	-20.000000	0.000000
1995	12	26	0	0	0.000000	-20.000000	0.000000
1995	12	27	0	0	0.000000	-20.000000	0.000000
1995	12	28	0	0	0.000000	-97.960000	0.000000
1995	12	29	0	0	0.000000	-141.630000	0.000000
1995	12	30	0	0	0.000000	-50.930000	0.000000
1995	12	31	0	0	0.000000	-20.000000	0.000000
1996	1	1	0	0	0.000000	-20.000000	0.000000
1996	1	2	0	0	0.000000	-20.000000	0.000000
1996	1	3	0	0	0.000000	-32.120000	0.000000
1996	1	4	0	0	0.000000	-20.000000	0.000000
1996	1	5	0	0	0.000000	-20.000000	0.000000
1996	1	6	0	0	0.000000	-20.000000	0.000000
1996	1	7	0	0	0.000000	-20.000000	0.000000
1996	1	8	0	0	0.000000	-20.000000	0.000000
1996	1	9	0	0	0.000000	-87.210000	0.000000
1996	1	10	0	0	0.000000	-37.490000	0.000000
1996	1	11	0	0	0.000000	-102.660000	0.000000
1996	1	12	0	0	0.000000	-69.740000	0.000000
1996	1	13	0	0	0.000000	-20.000000	0.000000
1996	1	14	0	0	0.000000	-20.000000	0.000000
1996	1	15	0	0	0.000000	-20.000000	0.000000
1996	1	16	0	0	0.000000	-20.000000	0.000000
1996	1	17	0	0	0.000000	-89.220000	0.000000
1996	1	18	0	0	0.000000	-91.240000	0.000000
1996	1	19	0	0	0.000000	-65.040000	0.000000
1996	1	20	0	0	0.000000	-38.160000	0.000000
1996	1	21	0	0	0.000000	-20.000000	0.000000
1996	1	22	0	0	0.000000	-20.000000	0.000000
1996	1	23	0	0	0.000000	-20.000000	0.000000
1996	1	24	0	0	0.000000	-20.000000	0.000000
1996	1	25	0	0	0.000000	-20.000000	0.000000
1996	1	26	0	0	0.000000	-20.000000	0.000000
1996	1	27	0	0	0.000000	-20.000000	0.000000
1996	1	28	0	0	0.000000	-20.000000	0.000000
1996	1	29	0	0	0.000000	-20.000000	0.000000
1996	1	30	0	0	0.000000	-140.960000	0.000000
1996	1	31	0	0	0.000000	-65.710000	0.000000
1996	2	1	0	0	0.000000	-39.510000	0.000000
1996	2	2	0	0	0.000000	-20.000000	0.000000
1996	2	3	0	0	0.000000	-20.000000	0.000000
1996	2	4	0	0	0.000000	-20.000000	0.000000
1996	2	5	0	0	0.000000	-24.050000	0.000000
1996	2	6	0	0	0.000000	-142.300000	0.000000
1996	2	7	0	0	0.000000	-20.000000	0.000000
1996	2	8	0	0	0.000000	-20.000000	0.000000
1996	2	9	0	0	0.000000	-20.000000	0.000000
1996	2	10	0	0	0.000000	-20.000000	0.000000
1996	2	11	0	0	0.000000	-20.000000	0.000000
1996	2	12	0	0	0.000000	-20.000000	0.000000
1996	2	13	0	0	0.000000	-110.050000	0.000000
1996	2	14	0	0	0.000000	-143.640000	0.000000
1996	2	15	0	0	0.000000	-66.380000	0.000000
1996	2	16	0	0	0.000000	-165.820000	0.000000
1996	2	17	0	0	0.000000	-20.000000	0.000000
1996	2	18	0	0	0.000000	-20.000000	0.000000
1996	2	19	0	0	0.000000	-20.000000	0.000000
1996	2	20	0	0	0.000000	-120.130000	0.000000
1996	2	21	0	0	0.000000	-20.000000	0.000000
1996	2	22	0	0	0.000000	-110.050000	0.000000
1996	2	23	0	0	0.000000	-550.790000	0.000000
1996	2	24	0	0	0.000000	-408.360000	0.000000
1996	2	25	0	0	0.000000	-221.580000	0.000000
1996	2	26	0	0	0.000000	-232.330000	0.000000
1996	2	27	0	0	0.000000	-256.520000	0.000000
1996	2	28	0	0	0.000000	-175.220000	0.000000
1996	2	29	0	0	0.000000	-98.630000	0.000000
1996	3	1	0	0	0.000000	-224.940000	0.000000
1996	3	2	0	0	0.000000	-97.290000	0.000000
1996	3	3	0	0	0.000000	-20.000000	0.000000
1996	3	4	0	0	0.000000	-93.250000	0.000000
1996	3	5	0	0	0.000000	-125.500000	0.000000
1996	3	6	0	0	0.000000	-121.470000	0.000000
1996	3	7	0	0	0.000000	-90.570000	0.000000
1996	3	8	0	0	0.000000	-20.000000	0.000000
1996	3	9	0	0	0.000000	-20.000000	0.000000
1996	3	10	0	0	0.000000	-20.000000	0.000000
1996	3	11	0	0	0.000000	-20.000000	0.000000
1996	3	12	0	0	0.000000	-142.970000	0.000000
1996	3	13	0	0	0.000000	-36.820000	0.000000
1996	3	14	0	0	0.000000	-91.240000	0.000000
1996	3	15	0	0	0.000000	-20.000000	0.000000
1996	3	16	0	0	0.000000	-20.000000	0.000000
1996	3	17	0	0	0.000000	-20.000000	0.000000
1996	3	18	0	0	0.000000	-20.000000	0.000000
1996	3	19	0	0	0.000000	-20.000000	0.000000
1996	3	20	0	0	0.000000	-121.470000	0.000000
1996	3	21	0	0	0.000000	-46.220000	0.000000
1996	3	22	0	0	0.000000	-175.890000	0.000000
1996	3	23	0	0	0.000000	-153.050000	0.000000
1996	3	24	0	0	0.000000	-20.000000	0.000000
1996	3	25	0	0	0.000000	-48.240000	0.000000
1996	3	26	0	0	0.000000	-20.000000	0.000000
1996	3	27	0	0	0.000000	-20.000000	0.000000
1996	3	28	0	0	0.000000	-20.000000	0.000000
1996	3	29	0	0	0.000000	-44.880000	0.000000
1996	3	30	0	0	0.000000	-112.740000	0.000000
1996	3	31	0	0	0.000000	-20.000000	0.000000
1996	4	1	0	0	0.000000	-83.850000	0.000000
1996	4	2	0	0	0.000000	-54.290000	0.000000
1996	4	3	0	0	0.000000	-76.460000	0.000000
1996	4	4	0	0	0.000000	-20.000000	0.000000
1996	4	5	0	0	0.000000	-20.000000	0.000000
1996	4	6	0	0	0.000000	-91.910000	0.000000
1996	4	7	0	0	0.000000	-20.000000	0.000000
1996	4	8	0	0	0.000000	-168.500000	0.000000
1996	4	9	0	0	0.000000	-188.660000	0.000000
1996	4	10	0	0	0.000000	-214.190000	0.000000
1996	4	11	0	0	0.000000	-194.030000	0.000000
1996	4	12	0	0	0.000000	-41.520000	0.000000
1996	4	13	0	0	0.000000	-20.000000	0.000000
1996	4	14	0	0	0.000000	-20.000000	0.000000
1996	4	15	0	0	0.000000	-114.080000	0.000000
1996	4	16	0	0	0.000000	-40.180000	0.000000

1996	4	17	0	0	0.000000	-20.000000	0.000000
1996	4	18	0	0	0.000000	-20.000000	0.000000
1996	4	19	0	0	0.000000	-134.910000	0.000000
1996	4	20	0	0	0.000000	-20.000000	0.000000
1996	4	21	0	0	0.000000	-20.000000	0.000000
1996	4	22	0	0	0.000000	-68.400000	0.000000
1996	4	23	0	0	0.000000	-48.910000	0.000000
1996	4	24	0	0	0.000000	-179.920000	0.000000
1996	4	25	0	0	0.000000	-253.160000	0.000000
1996	4	26	0	0	0.000000	-140.280000	0.000000
1996	4	27	0	0	0.000000	-20.000000	0.000000
1996	4	28	0	0	0.000000	-20.000000	0.000000
1996	4	29	0	0	0.000000	-20.000000	0.000000
1996	4	30	0	0	0.000000	-36.150000	0.000000
1996	5	1	0	0	0.000000	-92.580000	0.000000
1996	5	2	0	0	0.000000	-20.000000	0.000000
1996	5	3	0	0	0.000000	-33.460000	0.000000
1996	5	4	0	0	0.000000	-20.000000	0.000000
1996	5	5	0	0	0.000000	-20.000000	0.000000
1996	5	6	0	0	0.000000	-20.000000	0.000000
1996	5	7	0	0	0.000000	-20.000000	0.000000
1996	5	8	0	0	0.000000	-20.000000	0.000000
1996	5	9	0	0	0.000000	-83.180000	0.000000
1996	5	10	0	0	0.000000	-20.000000	0.000000
1996	5	11	0	0	0.000000	-126.850000	0.000000
1996	5	12	0	0	0.000000	-41.520000	0.000000
1996	5	13	0	0	0.000000	-20.000000	0.000000
1996	5	14	0	0	0.000000	-36.150000	0.000000
1996	5	15	0	0	0.000000	-20.000000	0.000000
1996	5	16	0	0	0.000000	-20.000000	0.000000
1996	5	17	0	0	0.000000	-20.000000	0.000000
1996	5	18	0	0	0.000000	-20.000000	0.000000
1996	5	19	0	0	0.000000	-20.000000	0.000000
1996	5	20	0	0	0.000000	-20.000000	0.000000
1996	5	21	0	0	0.000000	-44.880000	0.000000
1996	5	22	0	0	0.000000	-144.990000	0.000000
1996	5	23	0	0	0.000000	-161.780000	0.000000
1996	5	24	0	0	0.000000	-125.500000	0.000000
1996	5	25	0	0	0.000000	-210.830000	0.000000
1996	5	26	0	0	0.000000	-20.000000	0.000000
1996	5	27	0	0	0.000000	-135.580000	0.000000
1996	5	28	0	0	0.000000	-208.140000	0.000000
1996	5	29	0	0	0.000000	-124.830000	0.000000
1996	5	30	0	0	0.000000	-277.340000	0.000000
1996	5	31	0	0	0.000000	-204.780000	0.000000
1996	6	1	0	0	0.000000	-20.000000	0.000000
1996	6	2	0	0	0.000000	-20.000000	0.000000
1996	6	3	0	0	0.000000	-37.490000	0.000000
1996	6	4	0	0	0.000000	-20.000000	0.000000
1996	6	5	0	0	0.000000	-97.290000	0.000000
1996	6	6	0	0	0.000000	-20.000000	0.000000
1996	6	7	0	0	0.000000	-20.000000	0.000000
1996	6	8	0	0	0.000000	-20.000000	0.000000
1996	6	9	0	0	0.000000	-20.000000	0.000000
1996	6	10	0	0	0.000000	-40.850000	0.000000
1996	6	11	0	0	0.000000	-39.510000	0.000000
1996	6	12	0	0	0.000000	-45.550000	0.000000
1996	6	13	0	0	0.000000	-20.000000	0.000000
1996	6	14	0	0	0.000000	-20.000000	0.000000
1996	6	15	0	0	0.000000	-20.000000	0.000000
1996	6	16	0	0	0.000000	-20.000000	0.000000
1996	6	17	0	0	0.000000	-48.910000	0.000000
1996	6	18	0	0	0.000000	-48.910000	0.000000
1996	6	19	0	0	0.000000	-136.250000	0.000000
1996	6	20	0	0	0.000000	-104.680000	0.000000
1996	6	21	0	0	0.000000	-67.720000	0.000000
1996	6	22	0	0	0.000000	-30.770000	0.000000
1996	6	23	0	0	0.000000	-32.120000	0.000000
1996	6	24	0	0	0.000000	-99.970000	0.000000
1996	6	25	0	0	0.000000	-20.000000	0.000000
1996	6	26	0	0	0.000000	-76.460000	0.000000
1996	6	27	0	0	0.000000	-20.000000	0.000000
1996	6	28	0	0	0.000000	-20.000000	0.000000
1996	6	29	0	0	0.000000	-20.000000	0.000000
1996	6	30	0	0	0.000000	-20.000000	0.000000
1996	7	1	0	0	0.000000	-41.520000	0.000000
1996	7	2	0	0	0.000000	-20.000000	0.000000
1996	7	3	0	0	0.000000	-20.000000	0.000000
1996	7	4	0	0	0.000000	-20.000000	0.000000
1996	7	5	0	0	0.000000	-20.000000	0.000000
1996	7	6	0	0	0.000000	-20.000000	0.000000
1996	7	7	0	0	0.000000	-20.000000	0.000000
1996	7	8	0	0	0.000000	-20.000000	0.000000
1996	7	9	0	0	0.000000	-20.000000	0.000000
1996	7	10	0	0	0.000000	-20.000000	0.000000
1996	7	11	0	0	0.000000	-71.750000	0.000000
1996	7	12	0	0	0.000000	-20.000000	0.000000
1996	7	13	0	0	0.000000	-20.000000	0.000000
1996	7	14	0	0	0.000000	-20.000000	0.000000
1996	7	15	0	0	0.000000	-20.000000	0.000000
1996	7	16	0	0	0.000000	-20.000000	0.000000
1996	7	17	0	0	0.000000	-20.000000	0.000000
1996	7	18	0	0	0.000000	-149.690000	0.000000
1996	7	19	0	0	0.000000	-140.960000	0.000000
1996	7	20	0	0	0.000000	-20.000000	0.000000
1996	7	21	0	0	0.000000	-20.000000	0.000000
1996	7	22	0	0	0.000000	-87.880000	0.000000
1996	7	23	0	0	0.000000	-75.790000	0.000000
1996	7	24	0	0	0.000000	-20.000000	0.000000
1996	7	25	0	0	0.000000	-20.000000	0.000000
1996	7	26	0	0	0.000000	-20.000000	0.000000
1996	7	27	0	0	0.000000	-20.000000	0.000000
1996	7	28	0	0	0.000000	-20.000000	0.000000
1996	7	29	0	0	0.000000	-20.000000	0.000000
1996	7	30	0	0	0.000000	-20.000000	0.000000
1996	7	31	0	0	0.000000	-20.000000	0.000000
1996	8	1	0	0	0.000000	-20.000000	0.000000
1996	8	2	0	0	0.000000	-20.000000	0.000000
1996	8	3	0	0	0.000000	-20.000000	0.000000
1996	8	4	0	0	0.000000	-20.000000	0.000000
1996	8	5	0	0	0.000000	-20.000000	0.000000
1996	8	6	0	0	0.000000	-20.000000	0.000000
1996	8	7	0	0	0.000000	-20.000000	0.000000
1996	8	8	0	0	0.000000	-140.280000	0.000000
1996	8	9	0	0	0.000000	-63.690000	0.000000
1996	8	10	0	0	0.000000	-20.000000	0.000000
1996	8	11	0	0	0.000000	-20.000000	0.000000
1996	8	12	0	0	0.000000	-272.640000	0.000000
1996	8	13	0	0	0.000000	-20.000000	0.000000
1996	8	14	0	0	0.000000	-63.020000	0.000000
1996	8	15	0	0	0.000000	-61.680000	0.000000
1996	8	16	0	0	0.000000	-20.000000	0.000000
1996	8	17	0	0	0.000000	-20.000000	0.000000
1996	8	18	0	0	0.000000	-20.000000	0.000000
1996	8	19	0	0	0.000000	-20.000000	0.000000
1996	8	20	0	0	0.000000	-20.000000	0.000000
1996	8	21	0	0	0.000000	-20.000000	0.000000
1996	8	22	0	0	0.000000	-162.460000	0.000000
1996	8	23	0	0	0.000000	-202.100000	0.000000
1996	8	24	0	0	0.000000	-171.860000	0.000000
1996	8	25	0	0	0.000000	-20.000000	0.000000
1996	8	26	0	0	0.000000	-128.190000	0.000000
1996	8	27	0	0	0.000000	-74.440000	0.000000
1996	8	28	0	0	0.000000	-20.000000	0.000000
1996	8	29	0	0	0.000000	-20.000000	0.000000
1996	8	30	0	0	0.000000	-194.710000	0.000000
1996	8	31	0	0	0.000000	-20.000000	0.000000
1996	9	1	0	0	0.000000	-20.000000	0.000000
1996	9	2	0	0	0.000000	-20.000000	0.000000
1996	9	3	0	0	0.000000	-20.000000	0.000000

1996	9	4	0	0	0.000000	-20.000000	0.000000
1996	9	5	0	0	0.000000	-69.070000	0.000000
1996	9	6	0	0	0.000000	-202.100000	0.000000
1996	9	7	0	0	0.000000	-116.770000	0.000000
1996	9	8	0	0	0.000000	-157.750000	0.000000
1996	9	9	0	0	0.000000	-139.610000	0.000000
1996	9	10	0	0	0.000000	-8154.260000	0.000000
1996	9	11	0	0	0.000000	-5446.650000	0.000000
1996	9	12	0	0	0.000000	-2712.170000	0.000000
1996	9	13	0	0	0.000000	-1153.450000	0.000000
1996	9	14	0	0	0.000000	-864.550000	0.000000
1996	9	15	0	0	0.000000	-1032.520000	0.000000
1996	9	16	0	0	0.000000	-683.150000	0.000000
1996	9	17	0	0	0.000000	-636.120000	0.000000
1996	9	18	0	0	0.000000	-669.710000	0.000000
1996	9	19	0	0	0.000000	-575.650000	0.000000
1996	9	20	0	0	0.000000	-528.620000	0.000000
1996	9	21	0	0	0.000000	-409.030000	0.000000
1996	9	22	0	0	0.000000	-292.800000	0.000000
1996	9	23	0	0	0.000000	-362.670000	0.000000
1996	9	24	0	0	0.000000	-306.230000	0.000000
1996	9	25	0	0	0.000000	-416.420000	0.000000
1996	9	26	0	0	0.000000	-435.230000	0.000000
1996	9	27	0	0	0.000000	-345.870000	0.000000
1996	9	28	0	0	0.000000	-405.000000	0.000000
1996	9	29	0	0	0.000000	-300.190000	0.000000
1996	9	30	0	0	0.000000	-311.610000	0.000000
1996	10	1	0	0	0.000000	-281.380000	0.000000
1996	10	2	0	0	0.000000	-314.300000	0.000000
1996	10	3	0	0	0.000000	-337.810000	0.000000
1996	10	4	0	0	0.000000	-288.090000	0.000000
1996	10	5	0	0	0.000000	-258.530000	0.000000
1996	10	6	0	0	0.000000	-87.880000	0.000000
1996	10	7	0	0	0.000000	-175.890000	0.000000
1996	10	8	0	0	0.000000	-20.000000	0.000000
1996	10	9	0	0	0.000000	-20.000000	0.000000
1996	10	10	0	0	0.000000	-20.000000	0.000000
1996	10	11	0	0	0.000000	-20.000000	0.000000
1996	10	12	0	0	0.000000	-20.000000	0.000000
1996	10	13	0	0	0.000000	-20.000000	0.000000
1996	10	14	0	0	0.000000	-20.000000	0.000000
1996	10	15	0	0	0.000000	-159.770000	0.000000
1996	10	16	0	0	0.000000	-267.270000	0.000000
1996	10	17	0	0	0.000000	-141.630000	0.000000
1996	10	18	0	0	0.000000	-212.850000	0.000000
1996	10	19	0	0	0.000000	-20.000000	0.000000
1996	10	20	0	0	0.000000	-20.000000	0.000000
1996	10	21	0	0	0.000000	-243.750000	0.000000
1996	10	22	0	0	0.000000	-234.350000	0.000000
1996	10	23	0	0	0.000000	-290.780000	0.000000
1996	10	24	0	0	0.000000	-208.140000	0.000000
1996	10	25	0	0	0.000000	-211.500000	0.000000
1996	10	26	0	0	0.000000	-20.000000	0.000000
1996	10	27	0	0	0.000000	-30.770000	0.000000
1996	10	28	0	0	0.000000	-20.000000	0.000000
1996	10	29	0	0	0.000000	-20.000000	0.000000
1996	10	30	0	0	0.000000	-249.130000	0.000000
1996	10	31	0	0	0.000000	-270.630000	0.000000
1996	11	1	0	0	0.000000	-262.560000	0.000000
1996	11	2	0	0	0.000000	-20.000000	0.000000
1996	11	3	0	0	0.000000	-20.000000	0.000000
1996	11	4	0	0	0.000000	-101.990000	0.000000
1996	11	5	0	0	0.000000	-20.000000	0.000000
1996	11	6	0	0	0.000000	-85.860000	0.000000
1996	11	7	0	0	0.000000	-224.270000	0.000000
1996	11	8	0	0	0.000000	-151.710000	0.000000
1996	11	9	0	0	0.000000	-40.180000	0.000000
1996	11	10	0	0	0.000000	-70.410000	0.000000
1996	11	11	0	0	0.000000	-142.970000	0.000000
1996	11	12	0	0	0.000000	-104.680000	0.000000
1996	11	13	0	0	0.000000	-195.380000	0.000000
1996	11	14	0	0	0.000000	-120.800000	0.000000
1996	11	15	0	0	0.000000	-20.690000	0.000000
1996	11	16	0	0	0.000000	-96.610000	0.000000
1996	11	17	0	0	0.000000	-31.440000	0.000000
1996	11	18	0	0	0.000000	-380.810000	0.000000
1996	11	19	0	0	0.000000	-512.500000	0.000000
1996	11	20	0	0	0.000000	-476.890000	0.000000
1996	11	21	0	0	0.000000	-191.350000	0.000000
1996	11	22	0	0	0.000000	-238.380000	0.000000
1996	11	23	0	0	0.000000	-289.440000	0.000000
1996	11	24	0	0	0.000000	-79.820000	0.000000
1996	11	25	0	0	0.000000	-202.100000	0.000000
1996	11	26	0	0	0.000000	-179.920000	0.000000
1996	11	27	0	0	0.000000	-172.530000	0.000000
1996	11	28	0	0	0.000000	-20.690000	0.000000
1996	11	29	0	0	0.000000	-104.680000	0.000000
1996	11	30	0	0	0.000000	-40.850000	0.000000
1996	12	1	0	0	0.000000	-204.780000	0.000000
1996	12	2	0	0	0.000000	-244.420000	0.000000
1996	12	3	0	0	0.000000	-134.240000	0.000000
1996	12	4	0	0	0.000000	-28.080000	0.000000
1996	12	5	0	0	0.000000	-179.920000	0.000000
1996	12	6	0	0	0.000000	-163.130000	0.000000
1996	12	7	0	0	0.000000	-265.920000	0.000000
1996	12	8	0	0	0.000000	-86.540000	0.000000
1996	12	9	0	0	0.000000	-214.860000	0.000000
1996	12	10	0	0	0.000000	-229.640000	0.000000
1996	12	11	0	0	0.000000	-181.940000	0.000000
1996	12	12	0	0	0.000000	-29.430000	0.000000
1996	12	13	0	0	0.000000	-20.000000	0.000000
1996	12	14	0	0	0.000000	-139.610000	0.000000
1996	12	15	0	0	0.000000	-142.970000	0.000000
1996	12	16	0	0	0.000000	-224.940000	0.000000
1996	12	17	0	0	0.000000	-101.320000	0.000000
1996	12	18	0	0	0.000000	-42.860000	0.000000
1996	12	19	0	0	0.000000	-22.710000	0.000000
1996	12	20	0	0	0.000000	-20.000000	0.000000
1996	12	21	0	0	0.000000	-26.740000	0.000000
1996	12	22	0	0	0.000000	-28.760000	0.000000
1996	12	23	0	0	0.000000	-73.770000	0.000000
1996	12	24	0	0	0.000000	-67.720000	0.000000
1996	12	25	0	0	0.000000	-20.000000	0.000000
1996	12	26	0	0	0.000000	-185.970000	0.000000
1996	12	27	0	0	0.000000	-177.240000	0.000000
1996	12	28	0	0	0.000000	-20.000000	0.000000
1996	12	29	0	0	0.000000	-20.000000	0.000000
1996	12	30	0	0	0.000000	-179.920000	0.000000
1996	12	31	0	0	0.000000	-46.900000	0.000000
1997	1	1	0	0	0.000000	-20.000000	0.000000
1997	1	2	0	0	0.000000	-20.000000	0.000000
1997	1	3	0	0	0.000000	-20.000000	0.000000
1997	1	4	0	0	0.000000	-143.640000	0.000000
1997	1	5	0	0	0.000000	-26.740000	0.000000
1997	1	6	0	0	0.000000	-24.720000	0.000000
1997	1	7	0	0	0.000000	-20.000000	0.000000
1997	1	8	0	0	0.000000	-47.570000	0.000000
1997	1	9	0	0	0.000000	-20.000000	0.000000
1997	1	10	0	0	0.000000	-20.000000	0.000000
1997	1	11	0	0	0.000000	-99.300000	0.000000
1997	1	12	0	0	0.000000	-20.000000	0.000000
1997	1	13	0	0	0.000000	-34.800000	0.000000
1997	1	14	0	0	0.000000	-201.420000	0.000000
1997	1	15	0	0	0.000000	-171.860000	0.000000
1997	1	16	0	0	0.000000	-114.750000	0.000000
1997	1	17	0	0	0.000000	-97.290000	0.000000
1997	1	18	0	0	0.000000	-45.550000	0.000000
1997	1	19	0	0	0.000000	-57.650000	0.000000
1997	1	20	0	0	0.000000	-77.130000	0.000000
1997	1	21	0	0	0.000000	-342.520000	0.000000

1997	1	22	0	0	0.000000	-1724.540000	0.000000
1997	1	23	0	0	0.000000	-589.090000	0.000000
1997	1	24	0	0	0.000000	-369.390000	0.000000
1997	1	25	0	0	0.000000	-339.830000	0.000000
1997	1	26	0	0	0.000000	-223.600000	0.000000
1997	1	27	0	0	0.000000	-265.250000	0.000000
1997	1	28	0	0	0.000000	-185.300000	0.000000
1997	1	29	0	0	0.000000	-190.670000	0.000000
1997	1	30	0	0	0.000000	-185.300000	0.000000
1997	1	31	0	0	0.000000	-180.600000	0.000000
1997	2	1	0	0	0.000000	-24.050000	0.000000
1997	2	2	0	0	0.000000	-44.880000	0.000000
1997	2	3	0	0	0.000000	-68.400000	0.000000
1997	2	4	0	0	0.000000	-112.740000	0.000000
1997	2	5	0	0	0.000000	-144.320000	0.000000
1997	2	6	0	0	0.000000	-134.240000	0.000000
1997	2	7	0	0	0.000000	-58.320000	0.000000
1997	2	8	0	0	0.000000	-23.380000	0.000000
1997	2	9	0	0	0.000000	-20.000000	0.000000
1997	2	10	0	0	0.000000	-152.380000	0.000000
1997	2	11	0	0	0.000000	-149.690000	0.000000
1997	2	12	0	0	0.000000	-163.130000	0.000000
1997	2	13	0	0	0.000000	-130.880000	0.000000
1997	2	14	0	0	0.000000	-111.390000	0.000000
1997	2	15	0	0	0.000000	-20.000000	0.000000
1997	2	16	0	0	0.000000	-89.220000	0.000000
1997	2	17	0	0	0.000000	-49.580000	0.000000
1997	2	18	0	0	0.000000	-34.130000	0.000000
1997	2	19	0	0	0.000000	-59.660000	0.000000
1997	2	20	0	0	0.000000	-101.320000	0.000000
1997	2	21	0	0	0.000000	-140.280000	0.000000
1997	2	22	0	0	0.000000	-89.220000	0.000000
1997	2	23	0	0	0.000000	-20.000000	0.000000
1997	2	24	0	0	0.000000	-74.440000	0.000000
1997	2	25	0	0	0.000000	-54.960000	0.000000
1997	2	26	0	0	0.000000	-132.220000	0.000000
1997	2	27	0	0	0.000000	-136.930000	0.000000
1997	2	28	0	0	0.000000	-109.380000	0.000000
1997	3	1	0	0	0.000000	-20.000000	0.000000
1997	3	2	0	0	0.000000	-20.000000	0.000000
1997	3	3	0	0	0.000000	-89.220000	0.000000
1997	3	4	0	0	0.000000	-100.640000	0.000000
1997	3	5	0	0	0.000000	-67.050000	0.000000
1997	3	6	0	0	0.000000	-87.210000	0.000000
1997	3	7	0	0	0.000000	-139.610000	0.000000
1997	3	8	0	0	0.000000	-20.000000	0.000000
1997	3	9	0	0	0.000000	-20.000000	0.000000
1997	3	10	0	0	0.000000	-75.110000	0.000000
1997	3	11	0	0	0.000000	-122.820000	0.000000
1997	3	12	0	0	0.000000	-79.150000	0.000000
1997	3	13	0	0	0.000000	-101.320000	0.000000
1997	3	14	0	0	0.000000	-115.430000	0.000000
1997	3	15	0	0	0.000000	-54.960000	0.000000
1997	3	16	0	0	0.000000	-99.970000	0.000000
1997	3	17	0	0	0.000000	-110.720000	0.000000
1997	3	18	0	0	0.000000	-64.360000	0.000000
1997	3	19	0	0	0.000000	-89.900000	0.000000
1997	3	20	0	0	0.000000	-62.350000	0.000000
1997	3	21	0	0	0.000000	-25.400000	0.000000
1997	3	22	0	0	0.000000	-20.000000	0.000000
1997	3	23	0	0	0.000000	-46.900000	0.000000
1997	3	24	0	0	0.000000	-70.410000	0.000000
1997	3	25	0	0	0.000000	-82.500000	0.000000
1997	3	26	0	0	0.000000	-110.050000	0.000000
1997	3	27	0	0	0.000000	-120.800000	0.000000
1997	3	28	0	0	0.000000	-20.000000	0.000000
1997	3	29	0	0	0.000000	-20.000000	0.000000
1997	3	30	0	0	0.000000	-27.410000	0.000000
1997	3	31	0	0	0.000000	-63.020000	0.000000
1997	4	1	0	0	0.000000	-61.680000	0.000000
1997	4	2	0	0	0.000000	-57.650000	0.000000
1997	4	3	0	0	0.000000	-20.000000	0.000000
1997	4	4	0	0	0.000000	-77.130000	0.000000
1997	4	5	0	0	0.000000	-38.830000	0.000000
1997	4	6	0	0	0.000000	-20.000000	0.000000
1997	4	7	0	0	0.000000	-20.000000	0.000000
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1997	4	11	0	0	0.000000	-118.790000	0.000000
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1997	4	16	0	0	0.000000	-126.180000	0.000000
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1997	4	21	0	0	0.000000	-20.000000	0.000000
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1997	4	27	0	0	0.000000	-134.240000	0.000000
1997	4	28	0	0	0.000000	-52.270000	0.000000
1997	4	29	0	0	0.000000	-35.470000	0.000000
1997	4	30	0	0	0.000000	-81.830000	0.000000
1997	5	1	0	0	0.000000	-83.180000	0.000000
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1997	5	8	0	0	0.000000	-36.820000	0.000000
1997	5	9	0	0	0.000000	-20.000000	0.000000
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1997	5	22	0	0	0.000000	-20.000000	0.000000
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1997	8	20	0	0	0.000000	-87.880000	0.000000
1997	8	21	0	0	0.000000	-20.000000	0.000000
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1997	9	13	0	0	0.000000	-20.000000	0.000000
1997	9	14	0	0	0.000000	-20.000000	0.000000
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1997	9	16	0	0	0.000000	-20.000000	0.000000
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1997	9	18	0	0	0.000000	-20.000000	0.000000
1997	9	19	0	0	0.000000	-20.000000	0.000000
1997	9	20	0	0	0.000000	-20.000000	0.000000
1997	9	21	0	0	0.000000	-20.000000	0.000000
1997	9	22	0	0	0.000000	-20.000000	0.000000
1997	9	23	0	0	0.000000	-20.000000	0.000000
1997	9	24	0	0	0.000000	-20.000000	0.000000
1997	9	25	0	0	0.000000	-20.000000	0.000000
1997	9	26	0	0	0.000000	-20.000000	0.000000
1997	9	27	0	0	0.000000	-20.000000	0.000000
1997	9	28	0	0	0.000000	-20.000000	0.000000
1997	9	29	0	0	0.000000	-132.890000	0.000000
1997	9	30	0	0	0.000000	-109.380000	0.000000
1997	10	1	0	0	0.000000	-20.000000	0.000000
1997	10	2	0	0	0.000000	-20.000000	0.000000
1997	10	3	0	0	0.000000	-128.860000	0.000000
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1997	10	7	0	0	0.000000	-33.460000	0.000000
1997	10	8	0	0	0.000000	-20.000000	0.000000
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1997	10	11	0	0	0.000000	-20.000000	0.000000
1997	10	12	0	0	0.000000	-60.330000	0.000000
1997	10	13	0	0	0.000000	-757.050000	0.000000
1997	10	14	0	0	0.000000	-333.110000	0.000000
1997	10	15	0	0	0.000000	-324.380000	0.000000
1997	10	16	0	0	0.000000	-209.490000	0.000000
1997	10	17	0	0	0.000000	-172.530000	0.000000
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1997	10	19	0	0	0.000000	-157.750000	0.000000
1997	10	20	0	0	0.000000	-126.180000	0.000000
1997	10	21	0	0	0.000000	-149.690000	0.000000
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1997	10	24	0	0	0.000000	-115.430000	0.000000
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1997	10	26	0	0	0.000000	-64.360000	0.000000
1997	10	27	0	0	0.000000	-125.500000	0.000000
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1997	10	31	0	0	0.000000	-20.000000	0.000000
1997	11	1	0	0	0.000000	-20.000000	0.000000
1997	11	2	0	0	0.000000	-20.000000	0.000000
1997	11	3	0	0	0.000000	-20.000000	0.000000
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1997	11	16	0	0	0.000000	-20.000000	0.000000
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1997	12	6	0	0	0.000000	-20.000000	0.000000
1997	12	7	0	0	0.000000	-20.000000	0.000000
1997	12	8	0	0	0.000000	-20.000000	0.000000
1997	12	9	0	0	0.000000	-20.000000	0.000000
1997	12	10	0	0	0.000000	-20.000000	0.000000
1997	12	11	0	0	0.000000	-20.000000	0.000000
1997	12	12	0	0	0.000000	-20.000000	0.000000
1997	12	13	0	0	0.000000	-20.000000	0.000000
1997	12	14	0	0	0.000000	-20.000000	0.000000
1997	12	15	0	0	0.000000	-20.000000	0.000000
1997	12	16	0	0	0.000000	-20.000000	0.000000
1997	12	17	0	0	0.000000	-20.000000	0.000000
1997	12	18	0	0	0.000000	-20.000000	0.000000
1997	12	19	0	0	0.000000	-20.000000	0.000000
1997	12	20	0	0	0.000000	-20.000000	0.000000
1997	12	21	0	0	0.000000	-20.000000	0.000000
1997	12	22	0	0	0.000000	-20.000000	0.000000
1997	12	23	0	0	0.000000	-20.000000	0.000000
1997	12	24	0	0	0.000000	-22.040000	0.000000
1997	12	25	0	0	0.000000	-20.000000	0.000000
1997	12	26	0	0	0.000000	-20.000000	0.000000
1997	12	27	0	0	0.000000	-20.000000	0.000000
1997	12	28	0	0	0.000000	-20.000000	0.000000
1997	12	29	0	0	0.000000	-20.000000	0.000000
1997	12	30	0	0	0.000000	-20.000000	0.000000
1997	12	31	0	0	0.000000	-20.000000	0.000000
1998	1	1	0	0	0.000000	-20.000000	0.000000
1998	1	2	0	0	0.000000	-20.000000	0.000000
1998	1	3	0	0	0.000000	-20.000000	0.000000
1998	1	4	0	0	0.000000	-20.000000	0.000000
1998	1	5	0	0	0.000000	-20.000000	0.000000
1998	1	6	0	0	0.000000	-20.000000	0.000000
1998	1	7	0	0	0.000000	-20.000000	0.000000
1998	1	8	0	0	0.000000	-20.000000	0.000000
1998	1	9	0	0	0.000000	-20.000000	0.000000
1998	1	10	0	0	0.000000	-20.000000	0.000000
1998	1	11	0	0	0.000000	-20.000000	0.000000
1998	1	12	0	0	0.000000	-20.000000	0.000000
1998	1	13	0	0	0.000000	-20.000000	0.000000
1998	1	14	0	0	0.000000	-20.000000	0.000000
1998	1	15	0	0	0.000000	-20.000000	0.000000
1998	1	16	0	0	0.000000	-23.380000	0.000000
1998	1	17	0	0	0.000000	-20.000000	0.000000
1998	1	18	0	0	0.000000	-20.000000	0.000000
1998	1	19	0	0	0.000000	-20.000000	0.000000
1998	1	20	0	0	0.000000	-20.000000	0.000000
1998	1	21	0	0	0.000000	-20.000000	0.000000
1998	1	22	0	0	0.000000	-20.000000	0.000000
1998	1	23	0	0	0.000000	-20.000000	0.000000
1998	1	24	0	0	0.000000	-31.440000	0.000000
1998	1	25	0	0	0.000000	-20.000000	0.000000
1998	1	26	0	0	0.000000	-20.000000	0.000000
1998	1	27	0	0	0.000000	-20.000000	0.000000
1998	1	28	0	0	0.000000	-20.000000	0.000000
1998	1	29	0	0	0.000000	-82.500000	0.000000
1998	1	30	0	0	0.000000	-150.360000	0.000000
1998	1	31	0	0	0.000000	-20.000000	0.000000
1998	2	1	0	0	0.000000	-20.000000	0.000000
1998	2	2	0	0	0.000000	-20.000000	0.000000
1998	2	3	0	0	0.000000	-66.380000	0.000000
1998	2	4	0	0	0.000000	-20.000000	0.000000
1998	2	5	0	0	0.000000	-20.000000	0.000000
1998	2	6	0	0	0.000000	-199.410000	0.000000
1998	2	7	0	0	0.000000	-56.970000	0.000000
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1998	2	9	0	0	0.000000	-20.000000	0.000000
1998	2	10	0	0	0.000000	-20.000000	0.000000
1998	2	11	0	0	0.000000	-20.000000	0.000000
1998	2	12	0	0	0.000000	-20.000000	0.000000
1998	2	13	0	0	0.000000	-20.000000	0.000000
1998	2	14	0	0	0.000000	-20.000000	0.000000
1998	2	15	0	0	0.000000	-20.000000	0.000000
1998	2	16	0	0	0.000000	-20.000000	0.000000
1998	2	17	0	0	0.000000	-91.240000	0.000000
1998	2	18	0	0	0.000000	-20.000000	0.000000
1998	2	19	0	0	0.000000	-20.000000	0.000000
1998	2	20	0	0	0.000000	-56.970000	0.000000
1998	2	21	0	0	0.000000	-132.890000	0.000000
1998	2	22	0	0	0.000000	-32.790000	0.000000
1998	2	23	0	0	0.000000	-20.000000	0.000000
1998	2	24	0	0	0.000000	-20.000000	0.000000
1998	2	25	0	0	0.000000	-20.000000	0.000000
1998	2	26	0	0	0.000000	-20.000000	0.000000
1998	2	27	0	0	0.000000	-20.000000	0.000000
1998	2	28	0	0	0.000000	-20.000000	0.000000
1998	3	1	0	0	0.000000	-20.000000	0.000000
1998	3	2	0	0	0.000000	-20.000000	0.000000
1998	3	3	0	0	0.000000	-20.000000	0.000000
1998	3	4	0	0	0.000000	-58.990000	0.000000
1998	3	5	0	0	0.000000	-136.250000	0.000000
1998	3	6	0	0	0.000000	-20.000000	0.000000
1998	3	7	0	0	0.000000	-20.000000	0.000000
1998	3	8	0	0	0.000000	-20.000000	0.000000
1998	3	9	0	0	0.000000	-20.000000	0.000000
1998	3	10	0	0	0.000000	-20.000000	0.000000
1998	3	11	0	0	0.000000	-20.000000	0.000000
1998	3	12	0	0	0.000000	-20.000000	0.000000
1998	3	13	0	0	0.000000	-20.000000	0.000000
1998	3	14	0	0	0.000000	-20.000000	0.000000
1998	3	15	0	0	0.000000	-20.000000	0.000000
1998	3	16	0	0	0.000000	-20.000000	0.000000
1998	3	17	0	0	0.000000	-20.000000	0.000000

1998	3	18	0	0	0.000000	-20.000000	0.000000
1998	3	19	0	0	0.000000	-20.000000	0.000000
1998	3	20	0	0	0.000000	-20.000000	0.000000
1998	3	21	0	0	0.000000	-20.000000	0.000000
1998	3	22	0	0	0.000000	-20.000000	0.000000
1998	3	23	0	0	0.000000	-20.000000	0.000000
1998	3	24	0	0	0.000000	-20.000000	0.000000
1998	3	25	0	0	0.000000	-20.000000	0.000000
1998	3	26	0	0	0.000000	-20.000000	0.000000
1998	3	27	0	0	0.000000	-20.000000	0.000000
1998	3	28	0	0	0.000000	-20.000000	0.000000
1998	3	29	0	0	0.000000	-20.000000	0.000000
1998	3	30	0	0	0.000000	-20.000000	0.000000
1998	3	31	0	0	0.000000	-20.000000	0.000000
1998	4	1	0	0	0.000000	-20.000000	0.000000
1998	4	2	0	0	0.000000	-20.000000	0.000000
1998	4	3	0	0	0.000000	-20.000000	0.000000
1998	4	4	0	0	0.000000	-20.000000	0.000000
1998	4	5	0	0	0.000000	-20.000000	0.000000
1998	4	6	0	0	0.000000	-20.000000	0.000000
1998	4	7	0	0	0.000000	-20.000000	0.000000
1998	4	8	0	0	0.000000	-46.220000	0.000000
1998	4	9	0	0	0.000000	-20.000000	0.000000
1998	4	10	0	0	0.000000	-20.000000	0.000000
1998	4	11	0	0	0.000000	-20.000000	0.000000
1998	4	12	0	0	0.000000	-20.000000	0.000000
1998	4	13	0	0	0.000000	-20.000000	0.000000
1998	4	14	0	0	0.000000	-51.600000	0.000000
1998	4	15	0	0	0.000000	-20.000000	0.000000
1998	4	16	0	0	0.000000	-20.000000	0.000000
1998	4	17	0	0	0.000000	-20.000000	0.000000
1998	4	18	0	0	0.000000	-20.000000	0.000000
1998	4	19	0	0	0.000000	-20.000000	0.000000
1998	4	20	0	0	0.000000	-40.850000	0.000000
1998	4	21	0	0	0.000000	-20.690000	0.000000
1998	4	22	0	0	0.000000	-54.290000	0.000000
1998	4	23	0	0	0.000000	-51.600000	0.000000
1998	4	24	0	0	0.000000	-92.580000	0.000000
1998	4	25	0	0	0.000000	-22.040000	0.000000
1998	4	26	0	0	0.000000	-20.000000	0.000000
1998	4	27	0	0	0.000000	-20.000000	0.000000
1998	4	28	0	0	0.000000	-20.000000	0.000000
1998	4	29	0	0	0.000000	-20.000000	0.000000
1998	4	30	0	0	0.000000	-20.000000	0.000000
1998	5	1	0	0	0.000000	-20.000000	0.000000
1998	5	2	0	0	0.000000	-20.000000	0.000000
1998	5	3	0	0	0.000000	-20.000000	0.000000
1998	5	4	0	0	0.000000	-20.000000	0.000000
1998	5	5	0	0	0.000000	-20.000000	0.000000
1998	5	6	0	0	0.000000	-20.000000	0.000000
1998	5	7	0	0	0.000000	-20.000000	0.000000
1998	5	8	0	0	0.000000	-20.000000	0.000000
1998	5	9	0	0	0.000000	-20.000000	0.000000
1998	5	10	0	0	0.000000	-20.000000	0.000000
1998	5	11	0	0	0.000000	-71.080000	0.000000
1998	5	12	0	0	0.000000	-155.740000	0.000000
1998	5	13	0	0	0.000000	-20.000000	0.000000
1998	5	14	0	0	0.000000	-20.000000	0.000000
1998	5	15	0	0	0.000000	-20.000000	0.000000
1998	5	16	0	0	0.000000	-20.000000	0.000000
1998	5	17	0	0	0.000000	-20.000000	0.000000
1998	5	18	0	0	0.000000	-101.990000	0.000000
1998	5	19	0	0	0.000000	-20.000000	0.000000
1998	5	20	0	0	0.000000	-355.950000	0.000000
1998	5	21	0	0	0.000000	-790.650000	0.000000
1998	5	22	0	0	0.000000	-550.120000	0.000000
1998	5	23	0	0	0.000000	-171.860000	0.000000
1998	5	24	0	0	0.000000	-119.460000	0.000000
1998	5	25	0	0	0.000000	-20.000000	0.000000
1998	5	26	0	0	0.000000	-95.270000	0.000000
1998	5	27	0	0	0.000000	-94.600000	0.000000
1998	5	28	0	0	0.000000	-20.000000	0.000000
1998	5	29	0	0	0.000000	-27.410000	0.000000
1998	5	30	0	0	0.000000	-20.000000	0.000000
1998	5	31	0	0	0.000000	-20.000000	0.000000
1998	6	1	0	0	0.000000	-204.110000	0.000000
1998	6	2	0	0	0.000000	-73.770000	0.000000
1998	6	3	0	0	0.000000	-20.000000	0.000000
1998	6	4	0	0	0.000000	-20.000000	0.000000
1998	6	5	0	0	0.000000	-125.500000	0.000000
1998	6	6	0	0	0.000000	-171.190000	0.000000
1998	6	7	0	0	0.000000	-59.660000	0.000000
1998	6	8	0	0	0.000000	-106.690000	0.000000
1998	6	9	0	0	0.000000	-40.850000	0.000000
1998	6	10	0	0	0.000000	-25.400000	0.000000
1998	6	11	0	0	0.000000	-88.550000	0.000000
1998	6	12	0	0	0.000000	-330.420000	0.000000
1998	6	13	0	0	0.000000	-275.330000	0.000000
1998	6	14	0	0	0.000000	-48.910000	0.000000
1998	6	15	0	0	0.000000	-101.990000	0.000000
1998	6	16	0	0	0.000000	-87.880000	0.000000
1998	6	17	0	0	0.000000	-20.000000	0.000000
1998	6	18	0	0	0.000000	-20.000000	0.000000
1998	6	19	0	0	0.000000	-20.000000	0.000000
1998	6	20	0	0	0.000000	-20.000000	0.000000
1998	6	21	0	0	0.000000	-20.000000	0.000000
1998	6	22	0	0	0.000000	-139.610000	0.000000
1998	6	23	0	0	0.000000	-86.540000	0.000000
1998	6	24	0	0	0.000000	-20.000000	0.000000
1998	6	25	0	0	0.000000	-20.000000	0.000000
1998	6	26	0	0	0.000000	-20.000000	0.000000
1998	6	27	0	0	0.000000	-121.470000	0.000000
1998	6	28	0	0	0.000000	-20.000000	0.000000
1998	6	29	0	0	0.000000	-20.000000	0.000000
1998	6	30	0	0	0.000000	-20.000000	0.000000
1998	7	1	0	0	0.000000	-20.000000	0.000000
1998	7	2	0	0	0.000000	-20.000000	0.000000
1998	7	3	0	0	0.000000	-20.000000	0.000000
1998	7	4	0	0	0.000000	-20.000000	0.000000
1998	7	5	0	0	0.000000	-20.000000	0.000000
1998	7	6	0	0	0.000000	-20.000000	0.000000
1998	7	7	0	0	0.000000	-20.000000	0.000000
1998	7	8	0	0	0.000000	-20.000000	0.000000
1998	7	9	0	0	0.000000	-56.970000	0.000000
1998	7	10	0	0	0.000000	-137.600000	0.000000
1998	7	11	0	0	0.000000	-20.000000	0.000000
1998	7	12	0	0	0.000000	-26.740000	0.000000
1998	7	13	0	0	0.000000	-87.880000	0.000000
1998	7	14	0	0	0.000000	-38.160000	0.000000
1998	7	15	0	0	0.000000	-20.000000	0.000000
1998	7	16	0	0	0.000000	-89.900000	0.000000
1998	7	17	0	0	0.000000	-89.220000	0.000000
1998	7	18	0	0	0.000000	-20.000000	0.000000
1998	7	19	0	0	0.000000	-99.300000	0.000000
1998	7	20	0	0	0.000000	-71.750000	0.000000
1998	7	21	0	0	0.000000	-109.380000	0.000000
1998	7	22	0	0	0.000000	-207.470000	0.000000
1998	7	23	0	0	0.000000	-159.100000	0.000000
1998	7	24	0	0	0.000000	-169.850000	0.000000
1998	7	25	0	0	0.000000	-54.960000	0.000000
1998	7	26	0	0	0.000000	-20.000000	0.000000
1998	7	27	0	0	0.000000	-20.000000	0.000000
1998	7	28	0	0	0.000000	-20.000000	0.000000
1998	7	29	0	0	0.000000	-27.410000	0.000000
1998	7	30	0	0	0.000000	-105.350000	0.000000
1998	7	31	0	0	0.000000	-136.250000	0.000000
1998	8	1	0	0	0.000000	-20.000000	0.000000
1998	8	2	0	0	0.000000	-20.000000	0.000000
1998	8	3	0	0	0.000000	-72.430000	0.000000
1998	8	4	0	0	0.000000	-110.050000	0.000000

1998	8	5	0	0	0.000000	-108.710000	0.000000
1998	8	6	0	0	0.000000	-92.580000	0.000000
1998	8	7	0	0	0.000000	-194.030000	0.000000
1998	8	8	0	0	0.000000	-95.940000	0.000000
1998	8	9	0	0	0.000000	-115.430000	0.000000
1998	8	10	0	0	0.000000	-242.410000	0.000000
1998	8	11	0	0	0.000000	-323.030000	0.000000
1998	8	12	0	0	0.000000	-553.480000	0.000000
1998	8	13	0	0	0.000000	-324.380000	0.000000
1998	8	14	0	0	0.000000	-264.580000	0.000000
1998	8	15	0	0	0.000000	-257.860000	0.000000
1998	8	16	0	0	0.000000	-153.050000	0.000000
1998	8	17	0	0	0.000000	-165.140000	0.000000
1998	8	18	0	0	0.000000	-195.380000	0.000000
1998	8	19	0	0	0.000000	-69.740000	0.000000
1998	8	20	0	0	0.000000	-69.070000	0.000000
1998	8	21	0	0	0.000000	-206.800000	0.000000
1998	8	22	0	0	0.000000	-203.440000	0.000000
1998	8	23	0	0	0.000000	-65.710000	0.000000
1998	8	24	0	0	0.000000	-188.660000	0.000000
1998	8	25	0	0	0.000000	-432.550000	0.000000
1998	8	26	0	0	0.000000	-384.170000	0.000000
1998	8	27	0	0	0.000000	-385.510000	0.000000
1998	8	28	0	0	0.000000	-315.640000	0.000000
1998	8	29	0	0	0.000000	-337.810000	0.000000
1998	8	30	0	0	0.000000	-306.910000	0.000000
1998	8	31	0	0	0.000000	-144.320000	0.000000
1998	9	1	0	0	0.000000	-243.750000	0.000000
1998	9	2	0	0	0.000000	-176.570000	0.000000
1998	9	3	0	0	0.000000	-146.330000	0.000000
1998	9	4	0	0	0.000000	-39.510000	0.000000
1998	9	5	0	0	0.000000	-126.180000	0.000000
1998	9	6	0	0	0.000000	-138.940000	0.000000
1998	9	7	0	0	0.000000	-165.820000	0.000000
1998	9	8	0	0	0.000000	-152.380000	0.000000
1998	9	9	0	0	0.000000	-215.530000	0.000000
1998	9	10	0	0	0.000000	-354.610000	0.000000
1998	9	11	0	0	0.000000	-67.050000	0.000000
1998	9	12	0	0	0.000000	-42.190000	0.000000
1998	9	13	0	0	0.000000	-165.820000	0.000000
1998	9	14	0	0	0.000000	-214.860000	0.000000
1998	9	15	0	0	0.000000	-204.780000	0.000000
1998	9	16	0	0	0.000000	-335.800000	0.000000
1998	9	17	0	0	0.000000	-176.570000	0.000000
1998	9	18	0	0	0.000000	-172.530000	0.000000
1998	9	19	0	0	0.000000	-338.480000	0.000000
1998	9	20	0	0	0.000000	-392.910000	0.000000
1998	9	21	0	0	0.000000	-404.330000	0.000000
1998	9	22	0	0	0.000000	-4788.230000	0.000000
1998	9	23	0	0	0.000000	-1690.940000	0.000000
1998	9	24	0	0	0.000000	-965.330000	0.000000
1998	9	25	0	0	0.000000	-615.960000	0.000000
1998	9	26	0	0	0.000000	-450.690000	0.000000
1998	9	27	0	0	0.000000	-319.000000	0.000000
1998	9	28	0	0	0.000000	-246.440000	0.000000
1998	9	29	0	0	0.000000	-386.190000	0.000000
1998	9	30	0	0	0.000000	-396.260000	0.000000
1998	10	1	0	0	0.000000	-629.400000	0.000000
1998	10	2	0	0	0.000000	-508.470000	0.000000
1998	10	3	0	0	0.000000	-535.340000	0.000000
1998	10	4	0	0	0.000000	-374.090000	0.000000
1998	10	5	0	0	0.000000	-468.150000	0.000000
1998	10	6	0	0	0.000000	-468.150000	0.000000
1998	10	7	0	0	0.000000	-461.440000	0.000000
1998	10	8	0	0	0.000000	-488.310000	0.000000
1998	10	9	0	0	0.000000	-1368.450000	0.000000
1998	10	10	0	0	0.000000	-562.210000	0.000000
1998	10	11	0	0	0.000000	-360.660000	0.000000
1998	10	12	0	0	0.000000	-293.470000	0.000000
1998	10	13	0	0	0.000000	-212.850000	0.000000
1998	10	14	0	0	0.000000	-101.990000	0.000000
1998	10	15	0	0	0.000000	-71.750000	0.000000
1998	10	16	0	0	0.000000	-118.790000	0.000000
1998	10	17	0	0	0.000000	-280.030000	0.000000
1998	10	18	0	0	0.000000	-138.940000	0.000000
1998	10	19	0	0	0.000000	-58.320000	0.000000
1998	10	20	0	0	0.000000	-20.000000	0.000000
1998	10	21	0	0	0.000000	-20.000000	0.000000
1998	10	22	0	0	0.000000	-20.000000	0.000000
1998	10	23	0	0	0.000000	-20.000000	0.000000
1998	10	24	0	0	0.000000	-179.250000	0.000000
1998	10	25	0	0	0.000000	-20.000000	0.000000
1998	10	26	0	0	0.000000	-20.000000	0.000000
1998	10	27	0	0	0.000000	-20.000000	0.000000
1998	10	28	0	0	0.000000	-898.150000	0.000000
1998	10	29	0	0	0.000000	-414.400000	0.000000
1998	10	30	0	0	0.000000	-112.070000	0.000000
1998	10	31	0	0	0.000000	-31.440000	0.000000
1998	11	1	0	0	0.000000	-20.000000	0.000000
1998	11	2	0	0	0.000000	-20.000000	0.000000
1998	11	3	0	0	0.000000	-20.000000	0.000000
1998	11	4	0	0	0.000000	-20.000000	0.000000
1998	11	5	0	0	0.000000	-20.000000	0.000000
1998	11	6	0	0	0.000000	-20.000000	0.000000
1998	11	7	0	0	0.000000	-20.000000	0.000000
1998	11	8	0	0	0.000000	-58.320000	0.000000
1998	11	9	0	0	0.000000	-374.090000	0.000000
1998	11	10	0	0	0.000000	-347.220000	0.000000
1998	11	11	0	0	0.000000	-266.600000	0.000000
1998	11	12	0	0	0.000000	-226.280000	0.000000
1998	11	13	0	0	0.000000	-414.400000	0.000000
1998	11	14	0	0	0.000000	-387.530000	0.000000
1998	11	15	0	0	0.000000	-206.130000	0.000000
1998	11	16	0	0	0.000000	-266.600000	0.000000
1998	11	17	0	0	0.000000	-280.030000	0.000000
1998	11	18	0	0	0.000000	-233.000000	0.000000
1998	11	19	0	0	0.000000	-226.280000	0.000000
1998	11	20	0	0	0.000000	-280.030000	0.000000
1998	11	21	0	0	0.000000	-125.500000	0.000000
1998	11	22	0	0	0.000000	-58.320000	0.000000
1998	11	23	0	0	0.000000	-185.970000	0.000000
1998	11	24	0	0	0.000000	-192.690000	0.000000
1998	11	25	0	0	0.000000	-175.890000	0.000000
1998	11	26	0	0	0.000000	-65.040000	0.000000
1998	11	27	0	0	0.000000	-98.630000	0.000000
1998	11	28	0	0	0.000000	-333.780000	0.000000
1998	11	29	0	0	0.000000	-266.600000	0.000000
1998	11	30	0	0	0.000000	-165.820000	0.000000
1998	12	1	0	0	0.000000	-185.970000	0.000000
1998	12	2	0	0	0.000000	-206.130000	0.000000
1998	12	3	0	0	0.000000	-763.770000	0.000000
1998	12	4	0	0	0.000000	-696.590000	0.000000
1998	12	5	0	0	0.000000	-414.400000	0.000000
1998	12	6	0	0	0.000000	-347.220000	0.000000
1998	12	7	0	0	0.000000	-293.470000	0.000000
1998	12	8	0	0	0.000000	-239.720000	0.000000
1998	12	9	0	0	0.000000	-112.070000	0.000000
1998	12	10	0	0	0.000000	-239.720000	0.000000
1998	12	11	0	0	0.000000	-185.970000	0.000000
1998	12	12	0	0	0.000000	-20.000000	0.000000
1998	12	13	0	0	0.000000	-20.000000	0.000000
1998	12	14	0	0	0.000000	-91.910000	0.000000
1998	12	15	0	0	0.000000	-20.000000	0.000000
1998	12	16	0	0	0.000000	-20.000000	0.000000
1998	12	17	0	0	0.000000	-20.000000	0.000000
1998	12	18	0	0	0.000000	-20.000000	0.000000
1998	12	19	0	0	0.000000	-65.040000	0.000000
1998	12	20	0	0	0.000000	-20.000000	0.000000
1998	12	21	0	0	0.000000	-20.000000	0.000000
1998	12	22	0	0	0.000000	-31.440000	0.000000

1998	12	23	0	0	0.000000	-20.000000	0.000000
1998	12	24	0	0	0.000000	-20.000000	0.000000
1998	12	25	0	0	0.000000	-20.000000	0.000000
1998	12	26	0	0	0.000000	-20.000000	0.000000
1998	12	27	0	0	0.000000	-138.940000	0.000000
1998	12	28	0	0	0.000000	-71.750000	0.000000
1998	12	29	0	0	0.000000	-51.600000	0.000000
1998	12	30	0	0	0.000000	-31.440000	0.000000
1998	12	31	0	0	0.000000	-20.000000	0.000000
1999	1	1	0	0	0.000000	-38.160000	0.000000
1999	1	2	0	0	0.000000	-20.000000	0.000000
1999	1	3	0	0	0.000000	-20.000000	0.000000
1999	1	4	0	0	0.000000	-98.630000	0.000000
1999	1	5	0	0	0.000000	-145.660000	0.000000
1999	1	6	0	0	0.000000	-98.630000	0.000000
1999	1	7	0	0	0.000000	-65.040000	0.000000
1999	1	8	0	0	0.000000	-20.000000	0.000000
1999	1	9	0	0	0.000000	-71.750000	0.000000
1999	1	10	0	0	0.000000	-31.440000	0.000000
1999	1	11	0	0	0.000000	-78.470000	0.000000
1999	1	12	0	0	0.000000	-125.500000	0.000000
1999	1	13	0	0	0.000000	-20.000000	0.000000
1999	1	14	0	0	0.000000	-20.000000	0.000000
1999	1	15	0	0	0.000000	-219.560000	0.000000
1999	1	16	0	0	0.000000	-20.000000	0.000000
1999	1	17	0	0	0.000000	-91.910000	0.000000
1999	1	18	0	0	0.000000	-185.970000	0.000000
1999	1	19	0	0	0.000000	-78.470000	0.000000
1999	1	20	0	0	0.000000	-20.000000	0.000000
1999	1	21	0	0	0.000000	-20.000000	0.000000
1999	1	22	0	0	0.000000	-34.800000	0.000000
1999	1	23	0	0	0.000000	-20.000000	0.000000
1999	1	24	0	0	0.000000	-20.000000	0.000000
1999	1	25	0	0	0.000000	-38.160000	0.000000
1999	1	26	0	0	0.000000	-138.940000	0.000000
1999	1	27	0	0	0.000000	-38.160000	0.000000
1999	1	28	0	0	0.000000	-20.000000	0.000000
1999	1	29	0	0	0.000000	-20.000000	0.000000
1999	1	30	0	0	0.000000	-20.000000	0.000000
1999	1	31	0	0	0.000000	-20.000000	0.000000
1999	2	1	0	0	0.000000	-98.630000	0.000000
1999	2	2	0	0	0.000000	-51.600000	0.000000
1999	2	3	0	0	0.000000	-65.040000	0.000000
1999	2	4	0	0	0.000000	-44.880000	0.000000
1999	2	5	0	0	0.000000	-20.000000	0.000000
1999	2	6	0	0	0.000000	-20.000000	0.000000
1999	2	7	0	0	0.000000	-20.000000	0.000000
1999	2	8	0	0	0.000000	-20.000000	0.000000
1999	2	9	0	0	0.000000	-20.000000	0.000000
1999	2	10	0	0	0.000000	-20.000000	0.000000
1999	2	11	0	0	0.000000	-20.000000	0.000000
1999	2	12	0	0	0.000000	-20.000000	0.000000
1999	2	13	0	0	0.000000	-152.380000	0.000000
1999	2	14	0	0	0.000000	-44.880000	0.000000
1999	2	15	0	0	0.000000	-20.000000	0.000000
1999	2	16	0	0	0.000000	-20.000000	0.000000
1999	2	17	0	0	0.000000	-20.000000	0.000000
1999	2	18	0	0	0.000000	-20.000000	0.000000
1999	2	19	0	0	0.000000	-20.000000	0.000000
1999	2	20	0	0	0.000000	-20.000000	0.000000
1999	2	21	0	0	0.000000	-20.000000	0.000000
1999	2	22	0	0	0.000000	-20.000000	0.000000
1999	2	23	0	0	0.000000	-20.000000	0.000000
1999	2	24	0	0	0.000000	-20.000000	0.000000
1999	2	25	0	0	0.000000	-38.160000	0.000000
1999	2	26	0	0	0.000000	-186.640000	0.000000
1999	2	27	0	0	0.000000	-371.410000	0.000000
1999	2	28	0	0	0.000000	-70.410000	0.000000
1999	3	1	0	0	0.000000	-121.470000	0.000000
1999	3	2	0	0	0.000000	-56.970000	0.000000
1999	3	3	0	0	0.000000	-20.000000	0.000000
1999	3	4	0	0	0.000000	-22.710000	0.000000
1999	3	5	0	0	0.000000	-103.330000	0.000000
1999	3	6	0	0	0.000000	-169.850000	0.000000
1999	3	7	0	0	0.000000	-31.440000	0.000000
1999	3	8	0	0	0.000000	-20.000000	0.000000
1999	3	9	0	0	0.000000	-26.740000	0.000000
1999	3	10	0	0	0.000000	-32.790000	0.000000
1999	3	11	0	0	0.000000	-20.000000	0.000000
1999	3	12	0	0	0.000000	-23.380000	0.000000
1999	3	13	0	0	0.000000	-118.110000	0.000000
1999	3	14	0	0	0.000000	-40.180000	0.000000
1999	3	15	0	0	0.000000	-20.000000	0.000000
1999	3	16	0	0	0.000000	-20.000000	0.000000
1999	3	17	0	0	0.000000	-20.000000	0.000000
1999	3	18	0	0	0.000000	-20.000000	0.000000
1999	3	19	0	0	0.000000	-20.000000	0.000000
1999	3	20	0	0	0.000000	-222.250000	0.000000
1999	3	21	0	0	0.000000	-118.790000	0.000000
1999	3	22	0	0	0.000000	-216.210000	0.000000
1999	3	23	0	0	0.000000	-310.270000	0.000000
1999	3	24	0	0	0.000000	-50.930000	0.000000
1999	3	25	0	0	0.000000	-20.000000	0.000000
1999	3	26	0	0	0.000000	-126.850000	0.000000
1999	3	27	0	0	0.000000	-31.440000	0.000000
1999	3	28	0	0	0.000000	-233.670000	0.000000
1999	3	29	0	0	0.000000	-278.690000	0.000000
1999	3	30	0	0	0.000000	-253.160000	0.000000
1999	3	31	0	0	0.000000	-20.000000	0.000000
1999	4	1	0	0	0.000000	-20.000000	0.000000
1999	4	2	0	0	0.000000	-20.000000	0.000000
1999	4	3	0	0	0.000000	-257.860000	0.000000
1999	4	4	0	0	0.000000	-279.360000	0.000000
1999	4	5	0	0	0.000000	-271.300000	0.000000
1999	4	6	0	0	0.000000	-253.830000	0.000000
1999	4	7	0	0	0.000000	-198.740000	0.000000
1999	4	8	0	0	0.000000	-108.040000	0.000000
1999	4	9	0	0	0.000000	-101.990000	0.000000
1999	4	10	0	0	0.000000	-56.970000	0.000000
1999	4	11	0	0	0.000000	-20.000000	0.000000
1999	4	12	0	0	0.000000	-20.000000	0.000000
1999	4	13	0	0	0.000000	-222.250000	0.000000
1999	4	14	0	0	0.000000	-73.100000	0.000000
1999	4	15	0	0	0.000000	-95.940000	0.000000
1999	4	16	0	0	0.000000	-20.000000	0.000000
1999	4	17	0	0	0.000000	-20.000000	0.000000
1999	4	18	0	0	0.000000	-20.000000	0.000000
1999	4	19	0	0	0.000000	-20.000000	0.000000
1999	4	20	0	0	0.000000	-20.000000	0.000000
1999	4	21	0	0	0.000000	-20.000000	0.000000
1999	4	22	0	0	0.000000	-20.000000	0.000000
1999	4	23	0	0	0.000000	-20.000000	0.000000
1999	4	24	0	0	0.000000	-20.000000	0.000000
1999	4	25	0	0	0.000000	-20.000000	0.000000
1999	4	26	0	0	0.000000	-250.470000	0.000000
1999	4	27	0	0	0.000000	-106.690000	0.000000
1999	4	28	0	0	0.000000	-20.000000	0.000000
1999	4	29	0	0	0.000000	-190.000000	0.000000
1999	4	30	0	0	0.000000	-102.660000	0.000000
1999	5	1	0	0	0.000000	-20.000000	0.000000
1999	5	2	0	0	0.000000	-47.570000	0.000000
1999	5	3	0	0	0.000000	-32.120000	0.000000
1999	5	4	0	0	0.000000	-77.800000	0.000000
1999	5	5	0	0	0.000000	-20.000000	0.000000
1999	5	6	0	0	0.000000	-20.000000	0.000000
1999	5	7	0	0	0.000000	-269.950000	0.000000
1999	5	8	0	0	0.000000	-149.690000	0.000000
1999	5	9	0	0	0.000000	-393.580000	0.000000
1999	5	10	0	0	0.000000	-157.080000	0.000000
1999	5	11	0	0	0.000000	-289.440000	0.000000

1999	5	12	0	0	0.000000	-20.000000	0.000000
1999	5	13	0	0	0.000000	-83.850000	0.000000
1999	5	14	0	0	0.000000	-101.320000	0.000000
1999	5	15	0	0	0.000000	-20.000000	0.000000
1999	5	16	0	0	0.000000	-73.770000	0.000000
1999	5	17	0	0	0.000000	-27.410000	0.000000
1999	5	18	0	0	0.000000	-20.000000	0.000000
1999	5	19	0	0	0.000000	-23.380000	0.000000
1999	5	20	0	0	0.000000	-20.000000	0.000000
1999	5	21	0	0	0.000000	-20.000000	0.000000
1999	5	22	0	0	0.000000	-20.000000	0.000000
1999	5	23	0	0	0.000000	-20.000000	0.000000
1999	5	24	0	0	0.000000	-74.440000	0.000000
1999	5	25	0	0	0.000000	-112.740000	0.000000
1999	5	26	0	0	0.000000	-20.000000	0.000000
1999	5	27	0	0	0.000000	-20.000000	0.000000
1999	5	28	0	0	0.000000	-20.000000	0.000000
1999	5	29	0	0	0.000000	-25.400000	0.000000
1999	5	30	0	0	0.000000	-20.690000	0.000000
1999	5	31	0	0	0.000000	-136.930000	0.000000
1999	6	1	0	0	0.000000	-545.420000	0.000000
1999	6	2	0	0	0.000000	-417.760000	0.000000
1999	6	3	0	0	0.000000	-378.120000	0.000000
1999	6	4	0	0	0.000000	-456.730000	0.000000
1999	6	5	0	0	0.000000	-575.650000	0.000000
1999	6	6	0	0	0.000000	-30.100000	0.000000
1999	6	7	0	0	0.000000	-187.320000	0.000000
1999	6	8	0	0	0.000000	-20.000000	0.000000
1999	6	9	0	0	0.000000	-568.930000	0.000000
1999	6	10	0	0	0.000000	-743.620000	0.000000
1999	6	11	0	0	0.000000	-557.510000	0.000000
1999	6	12	0	0	0.000000	-432.550000	0.000000
1999	6	13	0	0	0.000000	-266.600000	0.000000
1999	6	14	0	0	0.000000	-225.610000	0.000000
1999	6	15	0	0	0.000000	-300.860000	0.000000
1999	6	16	0	0	0.000000	-525.930000	0.000000
1999	6	17	0	0	0.000000	-669.710000	0.000000
1999	6	18	0	0	0.000000	-396.940000	0.000000
1999	6	19	0	0	0.000000	-386.190000	0.000000
1999	6	20	0	0	0.000000	-186.640000	0.000000
1999	6	21	0	0	0.000000	-276.670000	0.000000
1999	6	22	0	0	0.000000	-110.050000	0.000000
1999	6	23	0	0	0.000000	-233.000000	0.000000
1999	6	24	0	0	0.000000	-175.890000	0.000000
1999	6	25	0	0	0.000000	-165.820000	0.000000
1999	6	26	0	0	0.000000	-20.000000	0.000000
1999	6	27	0	0	0.000000	-20.000000	0.000000
1999	6	28	0	0	0.000000	-87.210000	0.000000
1999	6	29	0	0	0.000000	-136.930000	0.000000
1999	6	30	0	0	0.000000	-97.290000	0.000000
1999	7	1	0	0	0.000000	-166.490000	0.000000
1999	7	2	0	0	0.000000	-42.190000	0.000000
1999	7	3	0	0	0.000000	-189.330000	0.000000
1999	7	4	0	0	0.000000	-155.070000	0.000000
1999	7	5	0	0	0.000000	-24.720000	0.000000
1999	7	6	0	0	0.000000	-20.690000	0.000000
1999	7	7	0	0	0.000000	-131.550000	0.000000
1999	7	8	0	0	0.000000	-110.720000	0.000000
1999	7	9	0	0	0.000000	-20.000000	0.000000
1999	7	10	0	0	0.000000	-114.750000	0.000000
1999	7	11	0	0	0.000000	-82.500000	0.000000
1999	7	12	0	0	0.000000	-63.690000	0.000000
1999	7	13	0	0	0.000000	-89.220000	0.000000
1999	7	14	0	0	0.000000	-52.270000	0.000000
1999	7	15	0	0	0.000000	-20.000000	0.000000
1999	7	16	0	0	0.000000	-86.540000	0.000000
1999	7	17	0	0	0.000000	-20.000000	0.000000
1999	7	18	0	0	0.000000	-138.940000	0.000000
1999	7	19	0	0	0.000000	-125.500000	0.000000
1999	7	20	0	0	0.000000	-104.680000	0.000000
1999	7	21	0	0	0.000000	-139.610000	0.000000
1999	7	22	0	0	0.000000	-192.690000	0.000000
1999	7	23	0	0	0.000000	-85.860000	0.000000
1999	7	24	0	0	0.000000	-24.720000	0.000000
1999	7	25	0	0	0.000000	-20.000000	0.000000
1999	7	26	0	0	0.000000	-20.000000	0.000000
1999	7	27	0	0	0.000000	-20.000000	0.000000
1999	7	28	0	0	0.000000	-20.000000	0.000000
1999	7	29	0	0	0.000000	-20.000000	0.000000
1999	7	30	0	0	0.000000	-85.860000	0.000000
1999	7	31	0	0	0.000000	-203.440000	0.000000
1999	8	1	0	0	0.000000	-110.720000	0.000000
1999	8	2	0	0	0.000000	-104.680000	0.000000
1999	8	3	0	0	0.000000	-156.410000	0.000000
1999	8	4	0	0	0.000000	-73.770000	0.000000
1999	8	5	0	0	0.000000	-20.000000	0.000000
1999	8	6	0	0	0.000000	-106.690000	0.000000
1999	8	7	0	0	0.000000	-124.160000	0.000000
1999	8	8	0	0	0.000000	-186.640000	0.000000
1999	8	9	0	0	0.000000	-63.690000	0.000000
1999	8	10	0	0	0.000000	-89.900000	0.000000
1999	8	11	0	0	0.000000	-27.410000	0.000000
1999	8	12	0	0	0.000000	-20.000000	0.000000
1999	8	13	0	0	0.000000	-20.000000	0.000000
1999	8	14	0	0	0.000000	-20.000000	0.000000
1999	8	15	0	0	0.000000	-125.500000	0.000000
1999	8	16	0	0	0.000000	-208.810000	0.000000
1999	8	17	0	0	0.000000	-226.960000	0.000000
1999	8	18	0	0	0.000000	-158.430000	0.000000
1999	8	19	0	0	0.000000	-417.090000	0.000000
1999	8	20	0	0	0.000000	-108.040000	0.000000
1999	8	21	0	0	0.000000	-20.000000	0.000000
1999	8	22	0	0	0.000000	-20.000000	0.000000
1999	8	23	0	0	0.000000	-265.920000	0.000000
1999	8	24	0	0	0.000000	-181.940000	0.000000
1999	8	25	0	0	0.000000	-212.850000	0.000000
1999	8	26	0	0	0.000000	-254.500000	0.000000
1999	8	27	0	0	0.000000	-197.390000	0.000000
1999	8	28	0	0	0.000000	-103.330000	0.000000
1999	8	29	0	0	0.000000	-20.000000	0.000000
1999	8	30	0	0	0.000000	-129.540000	0.000000
1999	8	31	0	0	0.000000	-220.240000	0.000000
1999	9	1	0	0	0.000000	-172.530000	0.000000
1999	9	2	0	0	0.000000	-128.860000	0.000000
1999	9	3	0	0	0.000000	-226.280000	0.000000
1999	9	4	0	0	0.000000	-246.440000	0.000000
1999	9	5	0	0	0.000000	-302.880000	0.000000
1999	9	6	0	0	0.000000	-224.940000	0.000000
1999	9	7	0	0	0.000000	-456.730000	0.000000
1999	9	8	0	0	0.000000	-375.440000	0.000000
1999	9	9	0	0	0.000000	-491.000000	0.000000
1999	9	10	0	0	0.000000	-379.470000	0.000000
1999	9	11	0	0	0.000000	-320.340000	0.000000
1999	9	12	0	0	0.000000	-314.970000	0.000000
1999	9	13	0	0	0.000000	-276.000000	0.000000
1999	9	14	0	0	0.000000	-381.480000	0.000000
1999	9	15	0	0	0.000000	-478.230000	0.000000
1999	9	16	0	0	0.000000	-474.870000	0.000000
1999	9	17	0	0	0.000000	-190.000000	0.000000
1999	9	18	0	0	0.000000	-267.940000	0.000000
1999	9	19	0	0	0.000000	-263.240000	0.000000
1999	9	20	0	0	0.000000	-156.410000	0.000000
1999	9	21	0	0	0.000000	-213.520000	0.000000
1999	9	22	0	0	0.000000	-234.350000	0.000000
1999	9	23	0	0	0.000000	-249.130000	0.000000
1999	9	24	0	0	0.000000	-147.000000	0.000000
1999	9	25	0	0	0.000000	-75.790000	0.000000
1999	9	26	0	0	0.000000	-157.080000	0.000000
1999	9	27	0	0	0.000000	-257.860000	0.000000
1999	9	28	0	0	0.000000	-259.200000	0.000000

1999	9	29	0	0	0.000000	-158.430000	0.000000
1999	9	30	0	0	0.000000	-199.410000	0.000000
1999	10	1	0	0	0.000000	-181.270000	0.000000
1999	10	2	0	0	0.000000	-96.610000	0.000000
1999	10	3	0	0	0.000000	-48.240000	0.000000
1999	10	4	0	0	0.000000	-169.850000	0.000000
1999	10	5	0	0	0.000000	-67.050000	0.000000
1999	10	6	0	0	0.000000	-181.940000	0.000000
1999	10	7	0	0	0.000000	-205.460000	0.000000
1999	10	8	0	0	0.000000	-193.360000	0.000000
1999	10	9	0	0	0.000000	-101.320000	0.000000
1999	10	10	0	0	0.000000	-53.610000	0.000000
1999	10	11	0	0	0.000000	-170.520000	0.000000
1999	10	12	0	0	0.000000	-251.140000	0.000000
1999	10	13	0	0	0.000000	-234.350000	0.000000
1999	10	14	0	0	0.000000	-326.390000	0.000000
1999	10	15	0	0	0.000000	-313.630000	0.000000
1999	10	16	0	0	0.000000	-279.360000	0.000000
1999	10	17	0	0	0.000000	-288.090000	0.000000
1999	10	18	0	0	0.000000	-615.960000	0.000000
1999	10	19	0	0	0.000000	-495.700000	0.000000
1999	10	20	0	0	0.000000	-488.980000	0.000000
1999	10	21	0	0	0.000000	-356.620000	0.000000
1999	10	22	0	0	0.000000	-366.700000	0.000000
1999	10	23	0	0	0.000000	-178.580000	0.000000
1999	10	24	0	0	0.000000	-165.140000	0.000000
1999	10	25	0	0	0.000000	-327.060000	0.000000
1999	10	26	0	0	0.000000	-323.030000	0.000000
1999	10	27	0	0	0.000000	-291.450000	0.000000
1999	10	28	0	0	0.000000	-233.670000	0.000000
1999	10	29	0	0	0.000000	-142.300000	0.000000
1999	10	30	0	0	0.000000	-108.040000	0.000000
1999	10	31	0	0	0.000000	-656.280000	0.000000
1999	11	1	0	0	0.000000	-797.370000	0.000000
1999	11	2	0	0	0.000000	-390.890000	0.000000
1999	11	3	0	0	0.000000	-496.370000	0.000000
1999	11	4	0	0	0.000000	-435.900000	0.000000
1999	11	5	0	0	0.000000	-310.940000	0.000000
1999	11	6	0	0	0.000000	-288.770000	0.000000
1999	11	7	0	0	0.000000	-239.720000	0.000000
1999	11	8	0	0	0.000000	-140.960000	0.000000
1999	11	9	0	0	0.000000	-155.740000	0.000000
1999	11	10	0	0	0.000000	-213.520000	0.000000
1999	11	11	0	0	0.000000	-228.300000	0.000000
1999	11	12	0	0	0.000000	-142.300000	0.000000
1999	11	13	0	0	0.000000	-179.920000	0.000000
1999	11	14	0	0	0.000000	-67.050000	0.000000
1999	11	15	0	0	0.000000	-447.330000	0.000000
1999	11	16	0	0	0.000000	-473.530000	0.000000
1999	11	17	0	0	0.000000	-378.800000	0.000000
1999	11	18	0	0	0.000000	-864.550000	0.000000
1999	11	19	0	0	0.000000	-1462.510000	0.000000
1999	11	20	0	0	0.000000	-1086.270000	0.000000
1999	11	21	0	0	0.000000	-696.590000	0.000000
1999	11	22	0	0	0.000000	-546.090000	0.000000
1999	11	23	0	0	0.000000	-525.930000	0.000000
1999	11	24	0	0	0.000000	-413.730000	0.000000
1999	11	25	0	0	0.000000	-376.110000	0.000000
1999	11	26	0	0	0.000000	-364.690000	0.000000
1999	11	27	0	0	0.000000	-332.440000	0.000000
1999	11	28	0	0	0.000000	-359.980000	0.000000
1999	11	29	0	0	0.000000	-314.300000	0.000000
1999	11	30	0	0	0.000000	-193.360000	0.000000
1999	12	1	0	0	0.000000	-151.710000	0.000000
1999	12	2	0	0	0.000000	-439.940000	0.000000
1999	12	3	0	0	0.000000	-817.520000	0.000000
1999	12	4	0	0	0.000000	-562.210000	0.000000
1999	12	5	0	0	0.000000	-425.150000	0.000000
1999	12	6	0	0	0.000000	-485.620000	0.000000
1999	12	7	0	0	0.000000	-470.840000	0.000000
1999	12	8	0	0	0.000000	-386.860000	0.000000
1999	12	9	0	0	0.000000	-331.090000	0.000000
1999	12	10	0	0	0.000000	-345.200000	0.000000
1999	12	11	0	0	0.000000	-230.310000	0.000000
1999	12	12	0	0	0.000000	-153.050000	0.000000
1999	12	13	0	0	0.000000	-269.950000	0.000000
1999	12	14	0	0	0.000000	-160.440000	0.000000
1999	12	15	0	0	0.000000	-157.750000	0.000000
1999	12	16	0	0	0.000000	-195.380000	0.000000
1999	12	17	0	0	0.000000	-165.820000	0.000000
1999	12	18	0	0	0.000000	-163.130000	0.000000
1999	12	19	0	0	0.000000	-184.630000	0.000000
1999	12	20	0	0	0.000000	-259.880000	0.000000
1999	12	21	0	0	0.000000	-179.250000	0.000000
1999	12	22	0	0	0.000000	-184.630000	0.000000
1999	12	23	0	0	0.000000	-165.140000	0.000000
1999	12	24	0	0	0.000000	-165.140000	0.000000
1999	12	25	0	0	0.000000	-173.880000	0.000000
1999	12	26	0	0	0.000000	-144.990000	0.000000
1999	12	27	0	0	0.000000	-152.380000	0.000000
1999	12	28	0	0	0.000000	-111.390000	0.000000
1999	12	29	0	0	0.000000	-112.070000	0.000000
1999	12	30	0	0	0.000000	-227.630000	0.000000
1999	12	31	0	0	0.000000	-110.050000	0.000000
2000	1	1	0	0	0.000000	-79.820000	0.000000
2000	1	2	0	0	0.000000	-157.750000	0.000000
2000	1	3	0	0	0.000000	-198.740000	0.000000
2000	1	4	0	0	0.000000	-247.110000	0.000000
2000	1	5	0	0	0.000000	-193.360000	0.000000
2000	1	6	0	0	0.000000	-151.710000	0.000000
2000	1	7	0	0	0.000000	-174.550000	0.000000
2000	1	8	0	0	0.000000	-153.050000	0.000000
2000	1	9	0	0	0.000000	-117.440000	0.000000
2000	1	10	0	0	0.000000	-149.020000	0.000000
2000	1	11	0	0	0.000000	-154.390000	0.000000
2000	1	12	0	0	0.000000	-128.860000	0.000000
2000	1	13	0	0	0.000000	-161.110000	0.000000
2000	1	14	0	0	0.000000	-201.420000	0.000000
2000	1	15	0	0	0.000000	-107.360000	0.000000
2000	1	16	0	0	0.000000	-113.410000	0.000000
2000	1	17	0	0	0.000000	-167.830000	0.000000
2000	1	18	0	0	0.000000	-69.740000	0.000000
2000	1	19	0	0	0.000000	-20.000000	0.000000
2000	1	20	0	0	0.000000	-126.180000	0.000000
2000	1	21	0	0	0.000000	-109.380000	0.000000
2000	1	22	0	0	0.000000	-49.580000	0.000000
2000	1	23	0	0	0.000000	-26.740000	0.000000
2000	1	24	0	0	0.000000	-26.740000	0.000000
2000	1	25	0	0	0.000000	-29.430000	0.000000
2000	1	26	0	0	0.000000	-28.760000	0.000000
2000	1	27	0	0	0.000000	-27.410000	0.000000
2000	1	28	0	0	0.000000	-20.690000	0.000000
2000	1	29	0	0	0.000000	-20.020000	0.000000
2000	1	30	0	0	0.000000	-30.770000	0.000000
2000	1	31	0	0	0.000000	-20.000000	0.000000
2000	2	1	0	0	0.000000	-20.000000	0.000000
2000	2	2	0	0	0.000000	-20.000000	0.000000
2000	2	3	0	0	0.000000	-20.000000	0.000000
2000	2	4	0	0	0.000000	-20.000000	0.000000
2000	2	5	0	0	0.000000	-36.150000	0.000000
2000	2	6	0	0	0.000000	-20.000000	0.000000
2000	2	7	0	0	0.000000	-22.040000	0.000000
2000	2	8	0	0	0.000000	-20.000000	0.000000
2000	2	9	0	0	0.000000	-79.820000	0.000000
2000	2	10	0	0	0.000000	-135.580000	0.000000
2000	2	11	0	0	0.000000	-93.930000	0.000000
2000	2	12	0	0	0.000000	-28.080000	0.000000
2000	2	13	0	0	0.000000	-30.770000	0.000000
2000	2	14	0	0	0.000000	-30.100000	0.000000
2000	2	15	0	0	0.000000	-20.020000	0.000000

2000	2	16	0	0	0.000000	-20.000000	0.000000
2000	2	17	0	0	0.000000	-20.000000	0.000000
2000	2	18	0	0	0.000000	-20.000000	0.000000
2000	2	19	0	0	0.000000	-23.380000	0.000000
2000	2	20	0	0	0.000000	-32.120000	0.000000
2000	2	21	0	0	0.000000	-45.550000	0.000000
2000	2	22	0	0	0.000000	-34.130000	0.000000
2000	2	23	0	0	0.000000	-20.000000	0.000000
2000	2	24	0	0	0.000000	-20.000000	0.000000
2000	2	25	0	0	0.000000	-57.650000	0.000000
2000	2	26	0	0	0.000000	-98.630000	0.000000
2000	2	27	0	0	0.000000	-53.610000	0.000000
2000	2	28	0	0	0.000000	-24.720000	0.000000
2000	2	29	0	0	0.000000	-77.800000	0.000000
2000	3	1	0	0	0.000000	-20.000000	0.000000
2000	3	2	0	0	0.000000	-20.000000	0.000000
2000	3	3	0	0	0.000000	-22.040000	0.000000
2000	3	4	0	0	0.000000	-85.860000	0.000000
2000	3	5	0	0	0.000000	-57.650000	0.000000
2000	3	6	0	0	0.000000	-48.910000	0.000000
2000	3	7	0	0	0.000000	-20.000000	0.000000
2000	3	8	0	0	0.000000	-20.000000	0.000000
2000	3	9	0	0	0.000000	-20.690000	0.000000
2000	3	10	0	0	0.000000	-26.070000	0.000000
2000	3	11	0	0	0.000000	-65.710000	0.000000
2000	3	12	0	0	0.000000	-20.000000	0.000000
2000	3	13	0	0	0.000000	-20.000000	0.000000
2000	3	14	0	0	0.000000	-20.000000	0.000000
2000	3	15	0	0	0.000000	-20.000000	0.000000
2000	3	16	0	0	0.000000	-20.000000	0.000000
2000	3	17	0	0	0.000000	-20.000000	0.000000
2000	3	18	0	0	0.000000	-20.000000	0.000000
2000	3	19	0	0	0.000000	-20.000000	0.000000
2000	3	20	0	0	0.000000	-20.000000	0.000000
2000	3	21	0	0	0.000000	-20.000000	0.000000
2000	3	22	0	0	0.000000	-20.000000	0.000000
2000	3	23	0	0	0.000000	-20.000000	0.000000
2000	3	24	0	0	0.000000	-20.000000	0.000000
2000	3	25	0	0	0.000000	-58.990000	0.000000
2000	3	26	0	0	0.000000	-85.860000	0.000000
2000	3	27	0	0	0.000000	-30.100000	0.000000
2000	3	28	0	0	0.000000	-20.000000	0.000000
2000	3	29	0	0	0.000000	-20.000000	0.000000
2000	3	30	0	0	0.000000	-43.540000	0.000000
2000	3	31	0	0	0.000000	-132.220000	0.000000
2000	4	1	0	0	0.000000	-131.550000	0.000000
2000	4	2	0	0	0.000000	-138.270000	0.000000
2000	4	3	0	0	0.000000	-130.880000	0.000000
2000	4	4	0	0	0.000000	-39.510000	0.000000
2000	4	5	0	0	0.000000	-22.040000	0.000000
2000	4	6	0	0	0.000000	-60.330000	0.000000
2000	4	7	0	0	0.000000	-20.000000	0.000000
2000	4	8	0	0	0.000000	-142.970000	0.000000
2000	4	9	0	0	0.000000	-62.350000	0.000000
2000	4	10	0	0	0.000000	-61.010000	0.000000
2000	4	11	0	0	0.000000	-23.380000	0.000000
2000	4	12	0	0	0.000000	-20.000000	0.000000
2000	4	13	0	0	0.000000	-20.000000	0.000000
2000	4	14	0	0	0.000000	-20.000000	0.000000
2000	4	15	0	0	0.000000	-20.000000	0.000000
2000	4	16	0	0	0.000000	-20.000000	0.000000
2000	4	17	0	0	0.000000	-20.000000	0.000000
2000	4	18	0	0	0.000000	-36.820000	0.000000
2000	4	19	0	0	0.000000	-20.000000	0.000000
2000	4	20	0	0	0.000000	-20.000000	0.000000
2000	4	21	0	0	0.000000	-20.000000	0.000000
2000	4	22	0	0	0.000000	-61.010000	0.000000
2000	4	23	0	0	0.000000	-41.520000	0.000000
2000	4	24	0	0	0.000000	-22.710000	0.000000
2000	4	25	0	0	0.000000	-30.100000	0.000000
2000	4	26	0	0	0.000000	-42.190000	0.000000
2000	4	27	0	0	0.000000	-29.430000	0.000000
2000	4	28	0	0	0.000000	-62.350000	0.000000
2000	4	29	0	0	0.000000	-38.160000	0.000000
2000	4	30	0	0	0.000000	-21.370000	0.000000
2000	5	1	0	0	0.000000	-20.000000	0.000000
2000	5	2	0	0	0.000000	-20.000000	0.000000
2000	5	3	0	0	0.000000	-40.180000	0.000000
2000	5	4	0	0	0.000000	-319.670000	0.000000
2000	5	5	0	0	0.000000	-278.020000	0.000000
2000	5	6	0	0	0.000000	-133.570000	0.000000
2000	5	7	0	0	0.000000	-151.030000	0.000000
2000	5	8	0	0	0.000000	-304.220000	0.000000
2000	5	9	0	0	0.000000	-557.510000	0.000000
2000	5	10	0	0	0.000000	-536.680000	0.000000
2000	5	11	0	0	0.000000	-460.760000	0.000000
2000	5	12	0	0	0.000000	-595.810000	0.000000
2000	5	13	0	0	0.000000	-353.940000	0.000000
2000	5	14	0	0	0.000000	-147.000000	0.000000
2000	5	15	0	0	0.000000	-125.500000	0.000000
2000	5	16	0	0	0.000000	-118.790000	0.000000
2000	5	17	0	0	0.000000	-1160.000000	0.000000
2000	5	18	0	0	0.000000	-1160.000000	0.000000
2000	5	19	0	0	0.000000	-1100.000000	0.000000
2000	5	20	0	0	0.000000	-1110.000000	0.000000
2000	5	21	0	0	0.000000	-30.000000	0.000000
2000	5	22	0	0	0.000000	-26.000000	0.000000
2000	5	23	0	0	0.000000	-398.000000	0.000000
2000	5	24	0	0	0.000000	-421.000000	0.000000
2000	5	25	0	0	0.000000	-421.000000	0.000000
2000	5	26	0	0	0.000000	-283.000000	0.000000
2000	5	27	0	0	0.000000	-517.000000	0.000000
2000	5	28	0	0	0.000000	-668.000000	0.000000
2000	5	29	0	0	0.000000	-701.000000	0.000000
2000	5	30	0	0	0.000000	-589.000000	0.000000
2000	5	31	0	0	0.000000	-812.000000	0.000000
2000	6	1	0	0	0.000000	-633.000000	0.000000
2000	6	2	0	0	0.000000	-369.000000	0.000000
2000	6	3	0	0	0.000000	-604.000000	0.000000
2000	6	4	0	0	0.000000	-577.000000	0.000000
2000	6	5	0	0	0.000000	-32.000000	0.000000
2000	6	6	0	0	0.000000	-283.000000	0.000000
2000	6	7	0	0	0.000000	-282.000000	0.000000
2000	6	8	0	0	0.000000	-294.000000	0.000000
2000	6	9	0	0	0.000000	-297.000000	0.000000
2000	6	10	0	0	0.000000	-258.000000	0.000000
2000	6	11	0	0	0.000000	-274.000000	0.000000
2000	6	12	0	0	0.000000	-32.000000	0.000000
2000	6	13	0	0	0.000000	-280.000000	0.000000
2000	6	14	0	0	0.000000	-78.000000	0.000000
2000	6	15	0	0	0.000000	-928.000000	0.000000
2000	6	16	0	0	0.000000	-535.000000	0.000000
2000	6	17	0	0	0.000000	-1280.000000	0.000000
2000	6	18	0	0	0.000000	-333.000000	0.000000
2000	6	19	0	0	0.000000	-463.000000	0.000000
2000	6	20	0	0	0.000000	-283.000000	0.000000
2000	6	21	0	0	0.000000	-354.000000	0.000000
2000	6	22	0	0	0.000000	-543.000000	0.000000
2000	6	23	0	0	0.000000	-145.000000	0.000000
2000	6	24	0	0	0.000000	-251.000000	0.000000
2000	6	25	0	0	0.000000	-244.000000	0.000000
2000	6	26	0	0	0.000000	-210.000000	0.000000
2000	6	27	0	0	0.000000	-25.000000	0.000000
2000	6	28	0	0	0.000000	-392.000000	0.000000
2000	6	29	0	0	0.000000	-205.000000	0.000000
2000	6	30	0	0	0.000000	-405.000000	0.000000
2000	7	1	0	0	0.000000	-260.000000	0.000000
2000	7	2	0	0	0.000000	-27.000000	0.000000
2000	7	3	0	0	0.000000	-21.000000	0.000000
2000	7	4	0	0	0.000000	-35.000000	0.000000

2000	7	5	0	0	0.000000	-192.000000	0.000000
2000	7	6	0	0	0.000000	-21.000000	0.000000
2000	7	7	0	0	0.000000	-44.000000	0.000000
2000	7	8	0	0	0.000000	-139.000000	0.000000
2000	7	9	0	0	0.000000	-248.000000	0.000000
2000	7	10	0	0	0.000000	-261.000000	0.000000
2000	7	11	0	0	0.000000	-767.000000	0.000000
2000	7	12	0	0	0.000000	-124.000000	0.000000
2000	7	13	0	0	0.000000	-120.000000	0.000000
2000	7	14	0	0	0.000000	-43.000000	0.000000
2000	7	15	0	0	0.000000	-215.000000	0.000000
2000	7	16	0	0	0.000000	-463.000000	0.000000
2000	7	17	0	0	0.000000	-55.000000	0.000000
2000	7	18	0	0	0.000000	-60.000000	0.000000
2000	7	19	0	0	0.000000	-153.000000	0.000000
2000	7	20	0	0	0.000000	-466.000000	0.000000
2000	7	21	0	0	0.000000	-479.000000	0.000000
2000	7	22	0	0	0.000000	-98.000000	0.000000
2000	7	23	0	0	0.000000	-611.000000	0.000000
2000	7	24	0	0	0.000000	-223.000000	0.000000
2000	7	25	0	0	0.000000	-294.000000	0.000000
2000	7	26	0	0	0.000000	-223.000000	0.000000
2000	7	27	0	0	0.000000	-312.000000	0.000000
2000	7	28	0	0	0.000000	-44.000000	0.000000
2000	7	29	0	0	0.000000	-274.000000	0.000000
2000	7	30	0	0	0.000000	-264.000000	0.000000
2000	7	31	0	0	0.000000	-274.000000	0.000000
2000	8	1	0	0	0.000000	-264.000000	0.000000
2000	8	2	0	0	0.000000	-315.000000	0.000000
2000	8	3	0	0	0.000000	-317.000000	0.000000
2000	8	4	0	0	0.000000	-677.000000	0.000000
2000	8	5	0	0	0.000000	-816.000000	0.000000
2000	8	6	0	0	0.000000	-38.000000	0.000000
2000	8	7	0	0	0.000000	-152.000000	0.000000
2000	8	8	0	0	0.000000	-227.000000	0.000000
2000	8	9	0	0	0.000000	-170.000000	0.000000
2000	8	10	0	0	0.000000	-33.000000	0.000000
2000	8	11	0	0	0.000000	-23.000000	0.000000
2000	8	12	0	0	0.000000	-87.000000	0.000000
2000	8	13	0	0	0.000000	-75.000000	0.000000
2000	8	14	0	0	0.000000	-49.000000	0.000000
2000	8	15	0	0	0.000000	-337.000000	0.000000
2000	8	16	0	0	0.000000	-246.000000	0.000000
2000	8	17	0	0	0.000000	-364.000000	0.000000
2000	8	18	0	0	0.000000	-44.000000	0.000000
2000	8	19	0	0	0.000000	-24.000000	0.000000
2000	8	20	0	0	0.000000	-49.000000	0.000000
2000	8	21	0	0	0.000000	-680.000000	0.000000
2000	8	22	0	0	0.000000	-114.000000	0.000000
2000	8	23	0	0	0.000000	-2120.000000	0.000000
2000	8	24	0	0	0.000000	-2040.000000	0.000000
2000	8	25	0	0	0.000000	-1200.000000	0.000000
2000	8	26	0	0	0.000000	-925.000000	0.000000
2000	8	27	0	0	0.000000	-1310.000000	0.000000
2000	8	28	0	0	0.000000	-889.000000	0.000000
2000	8	29	0	0	0.000000	-478.000000	0.000000
2000	8	30	0	0	0.000000	-465.000000	0.000000
2000	8	31	0	0	0.000000	-701.000000	0.000000
2000	9	1	0	0	0.000000	-884.000000	0.000000
2000	9	2	0	0	0.000000	-975.000000	0.000000
2000	9	3	0	0	0.000000	-811.000000	0.000000
2000	9	4	0	0	0.000000	-908.000000	0.000000
2000	9	5	0	0	0.000000	-642.000000	0.000000
2000	9	6	0	0	0.000000	-659.000000	0.000000
2000	9	7	0	0	0.000000	-954.000000	0.000000
2000	9	8	0	0	0.000000	-303.000000	0.000000
2000	9	9	0	0	0.000000	-721.000000	0.000000
2000	9	10	0	0	0.000000	-962.000000	0.000000
2000	9	11	0	0	0.000000	-882.000000	0.000000
2000	9	12	0	0	0.000000	-37.000000	0.000000
2000	9	13	0	0	0.000000	-409.000000	0.000000
2000	9	14	0	0	0.000000	-302.000000	0.000000
2000	9	15	0	0	0.000000	-638.000000	0.000000
2000	9	16	0	0	0.000000	-1160.000000	0.000000
2000	9	17	0	0	0.000000	-929.000000	0.000000
2000	9	18	0	0	0.000000	-664.000000	0.000000
2000	9	19	0	0	0.000000	-971.000000	0.000000
2000	9	20	0	0	0.000000	-1240.000000	0.000000
2000	9	21	0	0	0.000000	-1450.000000	0.000000
2000	9	22	0	0	0.000000	-2040.000000	0.000000
2000	9	23	0	0	0.000000	-1700.000000	0.000000
2000	9	24	0	0	0.000000	-1910.000000	0.000000
2000	9	25	0	0	0.000000	-1480.000000	0.000000
2000	9	26	0	0	0.000000	-1180.000000	0.000000
2000	9	27	0	0	0.000000	-1190.000000	0.000000
2000	9	28	0	0	0.000000	-1560.000000	0.000000
2000	9	29	0	0	0.000000	-1770.000000	0.000000
2000	9	30	0	0	0.000000	-535.000000	0.000000
2000	10	1	0	0	0.000000	-878.000000	0.000000
2000	10	2	0	0	0.000000	-226.000000	0.000000
2000	10	3	0	0	0.000000	-558.000000	0.000000
2000	10	4	0	0	0.000000	-898.000000	0.000000
2000	10	5	0	0	0.000000	-958.000000	0.000000
2000	10	6	0	0	0.000000	-644.000000	0.000000
2000	10	7	0	0	0.000000	-958.000000	0.000000
2000	10	8	0	0	0.000000	-694.000000	0.000000
2000	10	9	0	0	0.000000	-1370.000000	0.000000
2000	10	10	0	0	0.000000	-1460.000000	0.000000
2000	10	11	0	0	0.000000	-1060.000000	0.000000
2000	10	12	0	0	0.000000	-1170.000000	0.000000
2000	10	13	0	0	0.000000	-636.000000	0.000000
2000	10	14	0	0	0.000000	-727.000000	0.000000
2000	10	15	0	0	0.000000	-610.000000	0.000000
2000	10	16	0	0	0.000000	-697.000000	0.000000
2000	10	17	0	0	0.000000	-1440.000000	0.000000
2000	10	18	0	0	0.000000	-1820.000000	0.000000
2000	10	19	0	0	0.000000	-2260.000000	0.000000
2000	10	20	0	0	0.000000	-2380.000000	0.000000
2000	10	21	0	0	0.000000	-1550.000000	0.000000
2000	10	22	0	0	0.000000	-1220.000000	0.000000
2000	10	23	0	0	0.000000	-1940.000000	0.000000
2000	10	24	0	0	0.000000	-1630.000000	0.000000
2000	10	25	0	0	0.000000	-1700.000000	0.000000
2000	10	26	0	0	0.000000	-1940.000000	0.000000
2000	10	27	0	0	0.000000	-37.000000	0.000000
2000	10	28	0	0	0.000000	-887.000000	0.000000
2000	10	29	0	0	0.000000	-677.000000	0.000000
2000	10	30	0	0	0.000000	-1360.000000	0.000000
2000	10	31	0	0	0.000000	-1610.000000	0.000000
2000	11	1	0	0	0.000000	-1420.000000	0.000000
2000	11	2	0	0	0.000000	-1070.000000	0.000000
2000	11	3	0	0	0.000000	-1160.000000	0.000000
2000	11	4	0	0	0.000000	-1170.000000	0.000000
2000	11	5	0	0	0.000000	-925.000000	0.000000
2000	11	6	0	0	0.000000	-1060.000000	0.000000
2000	11	7	0	0	0.000000	-577.000000	0.000000
2000	11	8	0	0	0.000000	-878.000000	0.000000
2000	11	9	0	0	0.000000	-541.000000	0.000000
2000	11	10	0	0	0.000000	-228.000000	0.000000
2000	11	11	0	0	0.000000	-89.000000	0.000000
2000	11	12	0	0	0.000000	-672.000000	0.000000
2000	11	13	0	0	0.000000	-697.000000	0.000000
2000	11	14	0	0	0.000000	-219.000000	0.000000
2000	11	15	0	0	0.000000	-453.000000	0.000000
2000	11	16	0	0	0.000000	-525.000000	0.000000
2000	11	17	0	0	0.000000	-558.000000	0.000000
2000	11	18	0	0	0.000000	-371.000000	0.000000
2000	11	19	0	0	0.000000	-412.000000	0.000000
2000	11	20	0	0	0.000000	-357.000000	0.000000
2000	11	21	0	0	0.000000	-226.000000	0.000000

2000	11	22	0	0	0.000000	-34.000000	0.000000
2000	11	23	0	0	0.000000	-447.000000	0.000000
2000	11	24	0	0	0.000000	-373.000000	0.000000
2000	11	25	0	0	0.000000	-401.000000	0.000000
2000	11	26	0	0	0.000000	-807.000000	0.000000
2000	11	27	0	0	0.000000	-446.000000	0.000000
2000	11	28	0	0	0.000000	-341.000000	0.000000
2000	11	29	0	0	0.000000	-167.000000	0.000000
2000	11	30	0	0	0.000000	-275.000000	0.000000
2000	12	1	0	0	0.000000	-427.000000	0.000000
2000	12	2	0	0	0.000000	-390.000000	0.000000
2000	12	3	0	0	0.000000	-348.000000	0.000000
2000	12	4	0	0	0.000000	-437.000000	0.000000
2000	12	5	0	0	0.000000	-368.000000	0.000000
2000	12	6	0	0	0.000000	-372.000000	0.000000
2000	12	7	0	0	0.000000	-365.000000	0.000000
2000	12	8	0	0	0.000000	-361.000000	0.000000
2000	12	9	0	0	0.000000	-354.000000	0.000000
2000	12	10	0	0	0.000000	-375.000000	0.000000
2000	12	11	0	0	0.000000	-375.000000	0.000000
2000	12	12	0	0	0.000000	-368.000000	0.000000
2000	12	13	0	0	0.000000	-596.000000	0.000000
2000	12	14	0	0	0.000000	-368.000000	0.000000
2000	12	15	0	0	0.000000	-395.000000	0.000000
2000	12	16	0	0	0.000000	-163.000000	0.000000
2000	12	17	0	0	0.000000	-29.000000	0.000000
2000	12	18	0	0	0.000000	-330.000000	0.000000
2000	12	19	0	0	0.000000	-254.000000	0.000000
2000	12	20	0	0	0.000000	-389.000000	0.000000
2000	12	21	0	0	0.000000	-136.000000	0.000000
2000	12	22	0	0	0.000000	-86.000000	0.000000
2000	12	23	0	0	0.000000	-27.000000	0.000000
2000	12	24	0	0	0.000000	-28.000000	0.000000
2000	12	25	0	0	0.000000	-28.000000	0.000000
2000	12	26	0	0	0.000000	-991.000000	0.000000
2000	12	27	0	0	0.000000	-443.000000	0.000000
2000	12	28	0	0	0.000000	-437.000000	0.000000
2000	12	29	0	0	0.000000	-376.000000	0.000000
2000	12	30	0	0	0.000000	-237.000000	0.000000
2000	12	31	0	0	0.000000	-249.000000	0.000000
2001	1	1	0	0	0.000000	-250.000000	0.000000
2001	1	2	0	0	0.000000	-135.000000	0.000000
2001	1	3	0	0	0.000000	-28.000000	0.000000
2001	1	4	0	0	0.000000	-412.000000	0.000000
2001	1	5	0	0	0.000000	-337.000000	0.000000
2001	1	6	0	0	0.000000	-350.000000	0.000000
2001	1	7	0	0	0.000000	-32.000000	0.000000
2001	1	8	0	0	0.000000	-158.000000	0.000000
2001	1	9	0	0	0.000000	-597.000000	0.000000
2001	1	10	0	0	0.000000	-32.000000	0.000000
2001	1	11	0	0	0.000000	-591.000000	0.000000
2001	1	12	0	0	0.000000	-43.000000	0.000000
2001	1	13	0	0	0.000000	-663.000000	0.000000
2001	1	14	0	0	0.000000	-33.000000	0.000000
2001	1	15	0	0	0.000000	-314.000000	0.000000
2001	1	16	0	0	0.000000	-31.000000	0.000000
2001	1	17	0	0	0.000000	-350.000000	0.000000
2001	1	18	0	0	0.000000	-336.000000	0.000000
2001	1	19	0	0	0.000000	-250.000000	0.000000
2001	1	20	0	0	0.000000	-31.000000	0.000000
2001	1	21	0	0	0.000000	-48.000000	0.000000
2001	1	22	0	0	0.000000	-446.000000	0.000000
2001	1	23	0	0	0.000000	-29.000000	0.000000
2001	1	24	0	0	0.000000	-597.000000	0.000000
2001	1	25	0	0	0.000000	-274.000000	0.000000
2001	1	26	0	0	0.000000	-210.000000	0.000000
2001	1	27	0	0	0.000000	-30.000000	0.000000
2001	1	28	0	0	0.000000	-213.000000	0.000000
2001	1	29	0	0	0.000000	-121.000000	0.000000
2001	1	30	0	0	0.000000	-211.000000	0.000000
2001	1	31	0	0	0.000000	-289.000000	0.000000
2001	2	1	0	0	0.000000	-303.000000	0.000000
2001	2	2	0	0	0.000000	-143.000000	0.000000
2001	2	3	0	0	0.000000	-151.000000	0.000000
2001	2	4	0	0	0.000000	-289.000000	0.000000
2001	2	5	0	0	0.000000	-270.000000	0.000000
2001	2	6	0	0	0.000000	-281.000000	0.000000
2001	2	7	0	0	0.000000	-45.000000	0.000000
2001	2	8	0	0	0.000000	-383.000000	0.000000
2001	2	9	0	0	0.000000	-29.000000	0.000000
2001	2	10	0	0	0.000000	-29.000000	0.000000
2001	2	11	0	0	0.000000	-378.000000	0.000000
2001	2	12	0	0	0.000000	-178.000000	0.000000
2001	2	13	0	0	0.000000	-232.000000	0.000000
2001	2	14	0	0	0.000000	-43.000000	0.000000
2001	2	15	0	0	0.000000	-225.000000	0.000000
2001	2	16	0	0	0.000000	-36.000000	0.000000
2001	2	17	0	0	0.000000	-573.000000	0.000000
2001	2	18	0	0	0.000000	-38.000000	0.000000
2001	2	19	0	0	0.000000	-289.000000	0.000000
2001	2	20	0	0	0.000000	-39.000000	0.000000
2001	2	21	0	0	0.000000	-233.000000	0.000000
2001	2	22	0	0	0.000000	-123.000000	0.000000
2001	2	23	0	0	0.000000	-40.000000	0.000000
2001	2	24	0	0	0.000000	-268.000000	0.000000
2001	2	25	0	0	0.000000	-54.000000	0.000000
2001	2	26	0	0	0.000000	-68.000000	0.000000
2001	2	27	0	0	0.000000	-438.000000	0.000000
2001	2	28	0	0	0.000000	-97.000000	0.000000
2001	3	1	0	0	0.000000	-416.000000	0.000000
2001	3	2	0	0	0.000000	-32.000000	0.000000
2001	3	3	0	0	0.000000	-109.000000	0.000000
2001	3	4	0	0	0.000000	-300.000000	0.000000
2001	3	5	0	0	0.000000	-35.000000	0.000000
2001	3	6	0	0	0.000000	-680.000000	0.000000
2001	3	7	0	0	0.000000	-104.000000	0.000000
2001	3	8	0	0	0.000000	-30.000000	0.000000
2001	3	9	0	0	0.000000	-245.000000	0.000000
2001	3	10	0	0	0.000000	-29.000000	0.000000
2001	3	11	0	0	0.000000	-29.000000	0.000000
2001	3	12	0	0	0.000000	-572.000000	0.000000
2001	3	13	0	0	0.000000	-30.000000	0.000000
2001	3	14	0	0	0.000000	-96.000000	0.000000
2001	3	15	0	0	0.000000	-368.000000	0.000000
2001	3	16	0	0	0.000000	-151.000000	0.000000
2001	3	17	0	0	0.000000	-28.000000	0.000000
2001	3	18	0	0	0.000000	-28.000000	0.000000
2001	3	19	0	0	0.000000	-357.000000	0.000000
2001	3	20	0	0	0.000000	-29.000000	0.000000
2001	3	21	0	0	0.000000	-731.000000	0.000000
2001	3	22	0	0	0.000000	-133.000000	0.000000
2001	3	23	0	0	0.000000	-97.000000	0.000000
2001	3	24	0	0	0.000000	-28.000000	0.000000
2001	3	25	0	0	0.000000	-27.000000	0.000000
2001	3	26	0	0	0.000000	-688.000000	0.000000
2001	3	27	0	0	0.000000	-170.000000	0.000000
2001	3	28	0	0	0.000000	-28.000000	0.000000
2001	3	29	0	0	0.000000	-776.000000	0.000000
2001	3	30	0	0	0.000000	-112.000000	0.000000
2001	3	31	0	0	0.000000	-26.000000	0.000000
2001	4	1	0	0	0.000000	-26.000000	0.000000
2001	4	2	0	0	0.000000	-26.000000	0.000000
2001	4	3	0	0	0.000000	-637.000000	0.000000
2001	4	4	0	0	0.000000	-29.000000	0.000000
2001	4	5	0	0	0.000000	-29.000000	0.000000
2001	4	6	0	0	0.000000	-42.000000	0.000000
2001	4	7	0	0	0.000000	-403.000000	0.000000
2001	4	8	0	0	0.000000	-30.000000	0.000000
2001	4	9	0	0	0.000000	-55.000000	0.000000
2001	4	10	0	0	0.000000	-26.000000	0.000000

2001	4	11	0	0	0.000000	-657.000000	0.000000
2001	4	12	0	0	0.000000	-29.000000	0.000000
2001	4	13	0	0	0.000000	-30.000000	0.000000
2001	4	14	0	0	0.000000	-26.000000	0.000000
2001	4	15	0	0	0.000000	-264.000000	0.000000
2001	4	16	0	0	0.000000	-262.000000	0.000000
2001	4	17	0	0	0.000000	-30.000000	0.000000
2001	4	18	0	0	0.000000	-462.000000	0.000000
2001	4	19	0	0	0.000000	-374.000000	0.000000
2001	4	20	0	0	0.000000	-240.000000	0.000000
2001	4	21	0	0	0.000000	-269.000000	0.000000
2001	4	22	0	0	0.000000	-37.000000	0.000000
2001	4	23	0	0	0.000000	-27.000000	0.000000
2001	4	24	0	0	0.000000	-34.000000	0.000000
2001	4	25	0	0	0.000000	-270.000000	0.000000
2001	4	26	0	0	0.000000	-209.000000	0.000000
2001	4	27	0	0	0.000000	-108.000000	0.000000
2001	4	28	0	0	0.000000	-328.000000	0.000000
2001	4	29	0	0	0.000000	-289.000000	0.000000
2001	4	30	0	0	0.000000	-75.000000	0.000000
2001	5	1	0	0	0.000000	-386.000000	0.000000
2001	5	2	0	0	0.000000	-882.000000	0.000000
2001	5	3	0	0	0.000000	-435.000000	0.000000
2001	5	4	0	0	0.000000	-279.000000	0.000000
2001	5	5	0	0	0.000000	-541.000000	0.000000
2001	5	6	0	0	0.000000	-516.000000	0.000000
2001	5	7	0	0	0.000000	-3230.000000	0.000000
2001	5	8	0	0	0.000000	-1440.000000	0.000000
2001	5	9	0	0	0.000000	-1040.000000	0.000000
2001	5	10	0	0	0.000000	-1090.000000	0.000000
2001	5	11	0	0	0.000000	-1500.000000	0.000000
2001	5	12	0	0	0.000000	-784.000000	0.000000
2001	5	13	0	0	0.000000	-30.000000	0.000000
2001	5	14	0	0	0.000000	-690.000000	0.000000
2001	5	15	0	0	0.000000	-469.000000	0.000000
2001	5	16	0	0	0.000000	-427.000000	0.000000
2001	5	17	0	0	0.000000	-569.000000	0.000000
2001	5	18	0	0	0.000000	-681.000000	0.000000
2001	5	19	0	0	0.000000	-176.000000	0.000000
2001	5	20	0	0	0.000000	-28.000000	0.000000
2001	5	21	0	0	0.000000	-145.000000	0.000000
2001	5	22	0	0	0.000000	-673.000000	0.000000
2001	5	23	0	0	0.000000	-307.000000	0.000000
2001	5	24	0	0	0.000000	-541.000000	0.000000
2001	5	25	0	0	0.000000	-288.000000	0.000000
2001	5	26	0	0	0.000000	-265.000000	0.000000
2001	5	27	0	0	0.000000	-541.000000	0.000000
2001	5	28	0	0	0.000000	-300.000000	0.000000
2001	5	29	0	0	0.000000	-902.000000	0.000000
2001	5	30	0	0	0.000000	-205.000000	0.000000
2001	5	31	0	0	0.000000	-33.000000	0.000000
2001	6	1	0	0	0.000000	-30.000000	0.000000
2001	6	2	0	0	0.000000	-588.000000	0.000000
2001	6	3	0	0	0.000000	-230.000000	0.000000
2001	6	4	0	0	0.000000	-873.000000	0.000000
2001	6	5	0	0	0.000000	-363.000000	0.000000
2001	6	6	0	0	0.000000	-645.000000	0.000000
2001	6	7	0	0	0.000000	-140.000000	0.000000
2001	6	8	0	0	0.000000	-30.000000	0.000000
2001	6	9	0	0	0.000000	-279.000000	0.000000
2001	6	10	0	0	0.000000	-125.000000	0.000000
2001	6	11	0	0	0.000000	-187.000000	0.000000
2001	6	12	0	0	0.000000	-270.000000	0.000000
2001	6	13	0	0	0.000000	-819.000000	0.000000
2001	6	14	0	0	0.000000	-529.000000	0.000000
2001	6	15	0	0	0.000000	-567.000000	0.000000
2001	6	16	0	0	0.000000	-307.000000	0.000000
2001	6	17	0	0	0.000000	-288.000000	0.000000
2001	6	18	0	0	0.000000	-435.000000	0.000000
2001	6	19	0	0	0.000000	-646.000000	0.000000
2001	6	20	0	0	0.000000	-854.000000	0.000000
2001	6	21	0	0	0.000000	-306.000000	0.000000
2001	6	22	0	0	0.000000	-367.000000	0.000000
2001	6	23	0	0	0.000000	-360.000000	0.000000
2001	6	24	0	0	0.000000	-392.000000	0.000000
2001	6	25	0	0	0.000000	-464.000000	0.000000
2001	6	26	0	0	0.000000	-648.000000	0.000000
2001	6	27	0	0	0.000000	-317.000000	0.000000
2001	6	28	0	0	0.000000	-222.000000	0.000000
2001	6	29	0	0	0.000000	-217.000000	0.000000
2001	6	30	0	0	0.000000	-301.000000	0.000000
2001	7	1	0	0	0.000000	-862.000000	0.000000
2001	7	2	0	0	0.000000	-961.000000	0.000000
2001	7	3	0	0	0.000000	-672.000000	0.000000
2001	7	4	0	0	0.000000	-126.000000	0.000000
2001	7	5	0	0	0.000000	-520.000000	0.000000
2001	7	6	0	0	0.000000	-33.000000	0.000000
2001	7	7	0	0	0.000000	-49.000000	0.000000
2001	7	8	0	0	0.000000	-204.000000	0.000000
2001	7	9	0	0	0.000000	-39.000000	0.000000
2001	7	10	0	0	0.000000	-544.000000	0.000000
2001	7	11	0	0	0.000000	-432.000000	0.000000
2001	7	12	0	0	0.000000	-455.000000	0.000000
2001	7	13	0	0	0.000000	-1030.000000	0.000000
2001	7	14	0	0	0.000000	-737.000000	0.000000
2001	7	15	0	0	0.000000	-987.000000	0.000000
2001	7	16	0	0	0.000000	-207.000000	0.000000
2001	7	17	0	0	0.000000	-411.000000	0.000000
2001	7	18	0	0	0.000000	-30.000000	0.000000
2001	7	19	0	0	0.000000	-150.000000	0.000000
2001	7	20	0	0	0.000000	-30.000000	0.000000
2001	7	21	0	0	0.000000	-488.000000	0.000000
2001	7	22	0	0	0.000000	-253.000000	0.000000
2001	7	23	0	0	0.000000	-423.000000	0.000000
2001	7	24	0	0	0.000000	-455.000000	0.000000
2001	7	25	0	0	0.000000	-619.000000	0.000000
2001	7	26	0	0	0.000000	-235.000000	0.000000
2001	7	27	0	0	0.000000	-34.000000	0.000000
2001	7	28	0	0	0.000000	-259.000000	0.000000
2001	7	29	0	0	0.000000	-363.000000	0.000000
2001	7	30	0	0	0.000000	-1310.000000	0.000000
2001	7	31	0	0	0.000000	-391.000000	0.000000
2001	8	1	0	0	0.000000	-227.000000	0.000000
2001	8	2	0	0	0.000000	-44.000000	0.000000
2001	8	3	0	0	0.000000	-1120.000000	0.000000
2001	8	4	0	0	0.000000	-995.000000	0.000000
2001	8	5	0	0	0.000000	-300.000000	0.000000
2001	8	6	0	0	0.000000	-1140.000000	0.000000
2001	8	7	0	0	0.000000	-248.000000	0.000000
2001	8	8	0	0	0.000000	-34.000000	0.000000
2001	8	9	0	0	0.000000	-349.000000	0.000000
2001	8	10	0	0	0.000000	-216.000000	0.000000
2001	8	11	0	0	0.000000	-598.000000	0.000000
2001	8	12	0	0	0.000000	-608.000000	0.000000
2001	8	13	0	0	0.000000	-843.000000	0.000000
2001	8	14	0	0	0.000000	-549.000000	0.000000
2001	8	15	0	0	0.000000	-206.000000	0.000000
2001	8	16	0	0	0.000000	-604.000000	0.000000
2001	8	17	0	0	0.000000	-198.000000	0.000000
2001	8	18	0	0	0.000000	-269.000000	0.000000
2001	8	19	0	0	0.000000	-283.000000	0.000000
2001	8	20	0	0	0.000000	-529.000000	0.000000
2001	8	21	0	0	0.000000	-33.000000	0.000000
2001	8	22	0	0	0.000000	-560.000000	0.000000
2001	8	23	0	0	0.000000	-812.000000	0.000000
2001	8	24	0	0	0.000000	-87.000000	0.000000
2001	8	25	0	0	0.000000	-494.000000	0.000000
2001	8	26	0	0	0.000000	-304.000000	0.000000
2001	8	27	0	0	0.000000	-936.000000	0.000000
2001	8	28	0	0	0.000000	-1050.000000	0.000000

2001	8	29	0	0	0.000000	-977.000000	0.000000
2001	8	30	0	0	0.000000	-426.000000	0.000000
2001	8	31	0	0	0.000000	-545.000000	0.000000
2001	9	1	0	0	0.000000	-462.000000	0.000000
2001	9	2	0	0	0.000000	-602.000000	0.000000
2001	9	3	0	0	0.000000	-711.000000	0.000000
2001	9	4	0	0	0.000000	-293.000000	0.000000
2001	9	5	0	0	0.000000	-696.000000	0.000000
2001	9	6	0	0	0.000000	-537.000000	0.000000
2001	9	7	0	0	0.000000	-573.000000	0.000000
2001	9	8	0	0	0.000000	-287.000000	0.000000
2001	9	9	0	0	0.000000	-841.000000	0.000000
2001	9	10	0	0	0.000000	-969.000000	0.000000
2001	9	11	0	0	0.000000	-553.000000	0.000000
2001	9	12	0	0	0.000000	-672.000000	0.000000
2001	9	13	0	0	0.000000	-698.000000	0.000000
2001	9	14	0	0	0.000000	-569.000000	0.000000
2001	9	15	0	0	0.000000	-665.000000	0.000000
2001	9	16	0	0	0.000000	-340.000000	0.000000
2001	9	17	0	0	0.000000	-360.000000	0.000000
2001	9	18	0	0	0.000000	-277.000000	0.000000
2001	9	19	0	0	0.000000	-605.000000	0.000000
2001	9	20	0	0	0.000000	-304.000000	0.000000
2001	9	21	0	0	0.000000	-437.000000	0.000000
2001	9	22	0	0	0.000000	-1560.000000	0.000000
2001	9	23	0	0	0.000000	-1060.000000	0.000000
2001	9	24	0	0	0.000000	-371.000000	0.000000
2001	9	25	0	0	0.000000	-582.000000	0.000000
2001	9	26	0	0	0.000000	-682.000000	0.000000
2001	9	27	0	0	0.000000	-827.000000	0.000000
2001	9	28	0	0	0.000000	-1010.000000	0.000000
2001	9	29	0	0	0.000000	-1100.000000	0.000000
2001	9	30	0	0	0.000000	-508.000000	0.000000
2001	10	1	0	0	0.000000	-875.000000	0.000000
2001	10	2	0	0	0.000000	-506.000000	0.000000
2001	10	3	0	0	0.000000	-89.000000	0.000000
2001	10	4	0	0	0.000000	-328.000000	0.000000
2001	10	5	0	0	0.000000	-36.000000	0.000000
2001	10	6	0	0	0.000000	-252.000000	0.000000
2001	10	7	0	0	0.000000	-425.000000	0.000000
2001	10	8	0	0	0.000000	-1160.000000	0.000000
2001	10	9	0	0	0.000000	-1030.000000	0.000000
2001	10	10	0	0	0.000000	-293.000000	0.000000
2001	10	11	0	0	0.000000	-160.000000	0.000000
2001	10	12	0	0	0.000000	-1230.000000	0.000000
2001	10	13	0	0	0.000000	-487.000000	0.000000
2001	10	14	0	0	0.000000	-221.000000	0.000000
2001	10	15	0	0	0.000000	-846.000000	0.000000
2001	10	16	0	0	0.000000	-273.000000	0.000000
2001	10	17	0	0	0.000000	-357.000000	0.000000
2001	10	18	0	0	0.000000	-325.000000	0.000000
2001	10	19	0	0	0.000000	-137.000000	0.000000
2001	10	20	0	0	0.000000	-342.000000	0.000000
2001	10	21	0	0	0.000000	-206.000000	0.000000
2001	10	22	0	0	0.000000	-406.000000	0.000000
2001	10	23	0	0	0.000000	-539.000000	0.000000
2001	10	24	0	0	0.000000	-796.000000	0.000000
2001	10	25	0	0	0.000000	-357.000000	0.000000
2001	10	26	0	0	0.000000	-82.000000	0.000000
2001	10	27	0	0	0.000000	-61.000000	0.000000
2001	10	28	0	0	0.000000	-364.000000	0.000000
2001	10	29	0	0	0.000000	-706.000000	0.000000
2001	10	30	0	0	0.000000	-989.000000	0.000000
2001	10	31	0	0	0.000000	-559.000000	0.000000
2001	11	1	0	0	0.000000	-775.000000	0.000000
2001	11	2	0	0	0.000000	-36.000000	0.000000
2001	11	3	0	0	0.000000	-318.000000	0.000000
2001	11	4	0	0	0.000000	-398.000000	0.000000
2001	11	5	0	0	0.000000	-325.000000	0.000000
2001	11	6	0	0	0.000000	-599.000000	0.000000
2001	11	7	0	0	0.000000	-574.000000	0.000000
2001	11	8	0	0	0.000000	-8360.000000	0.000000
2001	11	9	0	0	0.000000	-3450.000000	0.000000
2001	11	10	0	0	0.000000	-1680.000000	0.000000
2001	11	11	0	0	0.000000	-1150.000000	0.000000
2001	11	12	0	0	0.000000	-585.000000	0.000000
2001	11	13	0	0	0.000000	-500.000000	0.000000
2001	11	14	0	0	0.000000	-1000.000000	0.000000
2001	11	15	0	0	0.000000	-999.000000	0.000000
2001	11	16	0	0	0.000000	-641.000000	0.000000
2001	11	17	0	0	0.000000	-191.000000	0.000000
2001	11	18	0	0	0.000000	-419.000000	0.000000
2001	11	19	0	0	0.000000	-510.000000	0.000000
2001	11	20	0	0	0.000000	-676.000000	0.000000
2001	11	21	0	0	0.000000	-808.000000	0.000000
2001	11	22	0	0	0.000000	-767.000000	0.000000
2001	11	23	0	0	23	-783.000000	0.000000
2001	11	24	0	0	0.000000	-645.000000	0.000000
2001	11	25	0	0	0.000000	-439.000000	0.000000
2001	11	26	0	0	0.000000	-663.000000	0.000000
2001	11	27	0	0	0.000000	-1220.000000	0.000000
2001	11	28	0	0	0.000000	-42.000000	0.000000
2001	11	29	0	0	0.000000	-337.000000	0.000000
2001	11	30	0	0	0.000000	-289.000000	0.000000
2001	12	1	0	0	0.000000	-488.000000	0.000000
2001	12	2	0	0	0.000000	-478.000000	0.000000
2001	12	3	0	0	0.000000	-708.000000	0.000000
2001	12	4	0	0	0.000000	-654.000000	0.000000
2001	12	5	0	0	0.000000	-996.000000	0.000000
2001	12	6	0	0	0.000000	-990.000000	0.000000
2001	12	7	0	0	0.000000	-447.000000	0.000000
2001	12	8	0	0	0.000000	-730.000000	0.000000
2001	12	9	0	0	0.000000	-862.000000	0.000000
2001	12	10	0	0	0.000000	-1070.000000	0.000000
2001	12	11	0	0	0.000000	-868.000000	0.000000
2001	12	12	0	0	0.000000	-559.000000	0.000000
2001	12	13	0	0	0.000000	-539.000000	0.000000
2001	12	14	0	0	0.000000	-231.000000	0.000000
2001	12	15	0	0	0.000000	-364.000000	0.000000
2001	12	16	0	0	0.000000	-387.000000	0.000000
2001	12	17	0	0	0.000000	-870.000000	0.000000
2001	12	18	0	0	0.000000	-1150.000000	0.000000
2001	12	19	0	0	0.000000	-1210.000000	0.000000
2001	12	20	0	0	0.000000	-364.000000	0.000000
2001	12	21	0	0	0.000000	-724.000000	0.000000
2001	12	22	0	0	0.000000	-707.000000	0.000000
2001	12	23	0	0	0.000000	-680.000000	0.000000
2001	12	24	0	0	0.000000	-893.000000	0.000000
2001	12	25	0	0	0.000000	-361.000000	0.000000
2001	12	26	0	0	0.000000	-716.000000	0.000000
2001	12	27	0	0	0.000000	-726.000000	0.000000
2001	12	28	0	0	0.000000	-379.000000	0.000000
2001	12	29	0	0	0.000000	-379.000000	0.000000
2001	12	30	0	0	0.000000	-345.000000	0.000000
2001	12	31	0	0	0.000000	-434.000000	0.000000
2002	1	1	0	0	0.000000	-68.000000	0.000000
2002	1	2	0	0	0.000000	-404.000000	0.000000
2002	1	3	0	0	0.000000	-448.000000	0.000000
2002	1	4	0	0	0.000000	-453.000000	0.000000
2002	1	5	0	0	0.000000	-157.000000	0.000000
2002	1	6	0	0	0.000000	-356.000000	0.000000
2002	1	7	0	0	0.000000	-705.000000	0.000000
2002	1	8	0	0	0.000000	-415.000000	0.000000
2002	1	9	0	0	0.000000	-348.000000	0.000000
2002	1	10	0	0	0.000000	-300.000000	0.000000
2002	1	11	0	0	0.000000	-208.000000	0.000000
2002	1	12	0	0	0.000000	-456.000000	0.000000
2002	1	13	0	0	0.000000	-355.000000	0.000000
2002	1	14	0	0	0.000000	-750.000000	0.000000
2002	1	15	0	0	0.000000	-35.000000	0.000000

2002	1	16	0	0	0.000000	-508.000000	0.000000
2002	1	17	0	0	0.000000	-507.000000	0.000000
2002	1	18	0	0	0.000000	-295.000000	0.000000
2002	1	19	0	0	0.000000	-488.000000	0.000000
2002	1	20	0	0	0.000000	-339.000000	0.000000
2002	1	21	0	0	0.000000	-363.000000	0.000000
2002	1	22	0	0	0.000000	-403.000000	0.000000
2002	1	23	0	0	0.000000	-376.000000	0.000000
2002	1	24	0	0	0.000000	-503.000000	0.000000
2002	1	25	0	0	0.000000	-513.000000	0.000000
2002	1	26	0	0	0.000000	-331.000000	0.000000
2002	1	27	0	0	0.000000	-375.000000	0.000000
2002	1	28	0	0	0.000000	-291.000000	0.000000
2002	1	29	0	0	0.000000	-366.000000	0.000000
2002	1	30	0	0	0.000000	-193.000000	0.000000
2002	1	31	0	0	0.000000	-34.000000	0.000000
2002	2	1	0	0	0.000000	-33.000000	0.000000
2002	2	2	0	0	0.000000	-298.000000	0.000000
2002	2	3	0	0	0.000000	-113.000000	0.000000
2002	2	4	0	0	0.000000	-381.000000	0.000000
2002	2	5	0	0	0.000000	-134.000000	0.000000
2002	2	6	0	0	0.000000	-130.000000	0.000000
2002	2	7	0	0	0.000000	-45.000000	0.000000
2002	2	8	0	0	0.000000	-34.000000	0.000000
2002	2	9	0	0	0.000000	-34.000000	0.000000
2002	2	10	0	0	0.000000	-739.000000	0.000000
2002	2	11	0	0	0.000000	-39.000000	0.000000
2002	2	12	0	0	0.000000	-321.000000	0.000000
2002	2	13	0	0	0.000000	-356.000000	0.000000
2002	2	14	0	0	0.000000	-277.000000	0.000000
2002	2	15	0	0	0.000000	-102.000000	0.000000
2002	2	16	0	0	0.000000	-577.000000	0.000000
2002	2	17	0	0	0.000000	-130.000000	0.000000
2002	2	18	0	0	0.000000	-41.000000	0.000000
2002	2	19	0	0	0.000000	-38.000000	0.000000
2002	2	20	0	0	0.000000	-304.000000	0.000000
2002	2	21	0	0	0.000000	-305.000000	0.000000
2002	2	22	0	0	0.000000	-299.000000	0.000000
2002	2	23	0	0	0.000000	-300.000000	0.000000
2002	2	24	0	0	0.000000	-193.000000	0.000000
2002	2	25	0	0	0.000000	-387.000000	0.000000
2002	2	26	0	0	0.000000	-300.000000	0.000000
2002	2	27	0	0	0.000000	-316.000000	0.000000
2002	2	28	0	0	0.000000	-43.000000	0.000000
2002	3	1	0	0	0.000000	-60.000000	0.000000
2002	3	2	0	0	0.000000	-161.000000	0.000000
2002	3	3	0	0	0.000000	-319.000000	0.000000
2002	3	4	0	0	0.000000	-93.000000	0.000000
2002	3	5	0	0	0.000000	-45.000000	0.000000
2002	3	6	0	0	0.000000	-404.000000	0.000000
2002	3	7	0	0	0.000000	-308.000000	0.000000
2002	3	8	0	0	0.000000	-303.000000	0.000000
2002	3	9	0	0	0.000000	-301.000000	0.000000
2002	3	10	0	0	0.000000	-412.000000	0.000000
2002	3	11	0	0	0.000000	-304.000000	0.000000
2002	3	12	0	0	0.000000	-295.000000	0.000000
2002	3	13	0	0	0.000000	-287.000000	0.000000
2002	3	14	0	0	0.000000	-289.000000	0.000000
2002	3	15	0	0	0.000000	-106.000000	0.000000
2002	3	16	0	0	0.000000	-460.000000	0.000000
2002	3	17	0	0	0.000000	-46.000000	0.000000
2002	3	18	0	0	0.000000	-304.000000	0.000000
2002	3	19	0	0	0.000000	-65.000000	0.000000
2002	3	20	0	0	0.000000	-36.000000	0.000000
2002	3	21	0	0	0.000000	-305.000000	0.000000
2002	3	22	0	0	0.000000	-347.000000	0.000000
2002	3	23	0	0	0.000000	-377.000000	0.000000
2002	3	24	0	0	0.000000	-312.000000	0.000000
2002	3	25	0	0	0.000000	-285.000000	0.000000
2002	3	26	0	0	0.000000	-334.000000	0.000000
2002	3	27	0	0	0.000000	-51.000000	0.000000
2002	3	28	0	0	0.000000	-33.000000	0.000000
2002	3	29	0	0	0.000000	-60.000000	0.000000
2002	3	30	0	0	0.000000	-182.000000	0.000000
2002	3	31	0	0	0.000000	-314.000000	0.000000
2002	4	1	0	0	0.000000	-356.000000	0.000000
2002	4	2	0	0	0.000000	-34.000000	0.000000
2002	4	3	0	0	0.000000	-436.000000	0.000000
2002	4	4	0	0	0.000000	-389.000000	0.000000
2002	4	5	0	0	0.000000	-403.000000	0.000000
2002	4	6	0	0	0.000000	-1620.000000	0.000000
2002	4	7	0	0	0.000000	-1280.000000	0.000000
2002	4	8	0	0	0.000000	-945.000000	0.000000
2002	4	9	0	0	0.000000	-613.000000	0.000000
2002	4	10	0	0	0.000000	-994.000000	0.000000
2002	4	11	0	0	0.000000	-649.000000	0.000000
2002	4	12	0	0	0.000000	-799.000000	0.000000
2002	4	13	0	0	0.000000	-558.000000	0.000000
2002	4	14	0	0	0.000000	-284.000000	0.000000
2002	4	15	0	0	0.000000	-718.000000	0.000000
2002	4	16	0	0	0.000000	-640.000000	0.000000
2002	4	17	0	0	0.000000	-805.000000	0.000000
2002	4	18	0	0	0.000000	-486.000000	0.000000
2002	4	19	0	0	0.000000	-637.000000	0.000000
2002	4	20	0	0	0.000000	-624.000000	0.000000
2002	4	21	0	0	0.000000	-1950.000000	0.000000
2002	4	22	0	0	0.000000	-615.000000	0.000000
2002	4	23	0	0	0.000000	-1320.000000	0.000000
2002	4	24	0	0	0.000000	-2400.000000	0.000000
2002	4	25	0	0	0.000000	-2800.000000	0.000000
2002	4	26	0	0	0.000000	-2200.000000	0.000000
2002	4	27	0	0	0.000000	-2130.000000	0.000000
2002	4	28	0	0	0.000000	-3410.000000	0.000000
2002	4	29	0	0	0.000000	-3030.000000	0.000000
2002	4	30	0	0	0.000000	-3350.000000	0.000000
2002	5	1	0	0	0.000000	-2110.000000	0.000000
2002	5	2	0	0	0.000000	-2000.000000	0.000000
2002	5	3	0	0	0.000000	-2020.000000	0.000000
2002	5	4	0	0	0.000000	-1570.000000	0.000000
2002	5	5	0	0	0.000000	-1310.000000	0.000000
2002	5	6	0	0	0.000000	-1400.000000	0.000000
2002	5	7	0	0	0.000000	-1230.000000	0.000000
2002	5	8	0	0	0.000000	-1080.000000	0.000000
2002	5	9	0	0	0.000000	-1070.000000	0.000000
2002	5	10	0	0	0.000000	-1180.000000	0.000000
2002	5	11	0	0	0.000000	-989.000000	0.000000
2002	5	12	0	0	0.000000	-918.000000	0.000000
2002	5	13	0	0	0.000000	-744.000000	0.000000
2002	5	14	0	0	0.000000	-894.000000	0.000000
2002	5	15	0	0	0.000000	-1350.000000	0.000000
2002	5	16	0	0	0.000000	-791.000000	0.000000
2002	5	17	0	0	0.000000	-1250.000000	0.000000
2002	5	18	0	0	0.000000	-284.000000	0.000000
2002	5	19	0	0	0.000000	-288.000000	0.000000
2002	5	20	0	0	0.000000	-468.000000	0.000000
2002	5	21	0	0	0.000000	-914.000000	0.000000
2002	5	22	0	0	0.000000	-808.000000	0.000000
2002	5	23	0	0	0.000000	-772.000000	0.000000
2002	5	24	0	0	0.000000	-421.000000	0.000000
2002	5	25	0	0	0.000000	-734.000000	0.000000
2002	5	26	0	0	0.000000	-245.000000	0.000000
2002	5	27	0	0	0.000000	-504.000000	0.000000
2002	5	28	0	0	0.000000	-278.000000	0.000000
2002	5	29	0	0	0.000000	-564.000000	0.000000
2002	5	30	0	0	0.000000	-603.000000	0.000000
2002	5	31	0	0	0.000000	-408.000000	0.000000
2002	6	1	0	0	0.000000	-40.000000	0.000000
2002	6	2	0	0	0.000000	-193.000000	0.000000
2002	6	3	0	0	0.000000	-45.000000	0.000000
2002	6	4	0	0	0.000000	-196.000000	0.000000

2002	6	5	0	0	0.000000	-670.000000	0.000000
2002	6	6	0	0	0.000000	-993.000000	0.000000
2002	6	7	0	0	0.000000	-259.000000	0.000000
2002	6	8	0	0	0.000000	-275.000000	0.000000
2002	6	9	0	0	0.000000	-283.000000	0.000000
2002	6	10	0	0	0.000000	-259.000000	0.000000
2002	6	11	0	0	0.000000	-582.000000	0.000000
2002	6	12	0	0	0.000000	-308.000000	0.000000
2002	6	13	0	0	0.000000	-890.000000	0.000000
2002	6	14	0	0	0.000000	-536.000000	0.000000
2002	6	15	0	0	0.000000	-289.000000	0.000000
2002	6	16	0	0	0.000000	-387.000000	0.000000
2002	6	17	0	0	0.000000	-788.000000	0.000000
2002	6	18	0	0	0.000000	-445.000000	0.000000
2002	6	19	0	0	0.000000	-452.000000	0.000000
2002	6	20	0	0	0.000000	-331.000000	0.000000
2002	6	21	0	0	0.000000	-164.000000	0.000000
2002	6	22	0	0	0.000000	-291.000000	0.000000
2002	6	23	0	0	0.000000	-304.000000	0.000000
2002	6	24	0	0	0.000000	-281.000000	0.000000
2002	6	25	0	0	0.000000	-255.000000	0.000000
2002	6	26	0	0	0.000000	-258.000000	0.000000
2002	6	27	0	0	0.000000	-300.000000	0.000000
2002	6	28	0	0	0.000000	-418.000000	0.000000
2002	6	29	0	0	0.000000	-265.000000	0.000000
2002	6	30	0	0	0.000000	-367.000000	0.000000
2002	7	1	0	0	0.000000	-301.000000	0.000000
2002	7	2	0	0	0.000000	-297.000000	0.000000
2002	7	3	0	0	0.000000	-543.000000	0.000000
2002	7	4	0	0	0.000000	-301.000000	0.000000
2002	7	5	0	0	0.000000	-301.000000	0.000000
2002	7	6	0	0	0.000000	-269.000000	0.000000
2002	7	7	0	0	0.000000	-254.000000	0.000000
2002	7	8	0	0	0.000000	-314.000000	0.000000
2002	7	9	0	0	0.000000	-586.000000	0.000000
2002	7	10	0	0	0.000000	-677.000000	0.000000
2002	7	11	0	0	0.000000	-601.000000	0.000000
2002	7	12	0	0	0.000000	-511.000000	0.000000
2002	7	13	0	0	0.000000	-278.000000	0.000000
2002	7	14	0	0	0.000000	-386.000000	0.000000
2002	7	15	0	0	0.000000	-574.000000	0.000000
2002	7	16	0	0	0.000000	-311.000000	0.000000
2002	7	17	0	0	0.000000	-36.000000	0.000000
2002	7	18	0	0	0.000000	-1180.000000	0.000000
2002	7	19	0	0	0.000000	-346.000000	0.000000
2002	7	20	0	0	0.000000	-239.000000	0.000000
2002	7	21	0	0	0.000000	-273.000000	0.000000
2002	7	22	0	0	0.000000	-401.000000	0.000000
2002	7	23	0	0	0.000000	-272.000000	0.000000
2002	7	24	0	0	0.000000	-221.000000	0.000000
2002	7	25	0	0	0.000000	-272.000000	0.000000
2002	7	26	0	0	0.000000	-203.000000	0.000000
2002	7	27	0	0	0.000000	-27.000000	0.000000
2002	7	28	0	0	0.000000	-301.000000	0.000000
2002	7	29	0	0	0.000000	-575.000000	0.000000
2002	7	30	0	0	0.000000	-248.000000	0.000000
2002	7	31	0	0	0.000000	-243.000000	0.000000
2002	8	1	0	0	0.000000	-188.000000	0.000000
2002	8	2	0	0	0.000000	-332.000000	0.000000
2002	8	3	0	0	0.000000	-389.000000	0.000000
2002	8	4	0	0	0.000000	-382.000000	0.000000
2002	8	5	0	0	0.000000	-618.000000	0.000000
2002	8	6	0	0	0.000000	-288.000000	0.000000
2002	8	7	0	0	0.000000	-354.000000	0.000000
2002	8	8	0	0	0.000000	-220.000000	0.000000
2002	8	9	0	0	0.000000	-33.000000	0.000000
2002	8	10	0	0	0.000000	-406.000000	0.000000
2002	8	11	0	0	0.000000	-297.000000	0.000000
2002	8	12	0	0	0.000000	-1310.000000	0.000000
2002	8	13	0	0	0.000000	-1060.000000	0.000000
2002	8	14	0	0	0.000000	-122.000000	0.000000
2002	8	15	0	0	0.000000	-756.000000	0.000000
2002	8	16	0	0	0.000000	-366.000000	0.000000
2002	8	17	0	0	0.000000	-306.000000	0.000000
2002	8	18	0	0	0.000000	-302.000000	0.000000
2002	8	19	0	0	0.000000	-610.000000	0.000000
2002	8	20	0	0	0.000000	-302.000000	0.000000
2002	8	21	0	0	0.000000	-852.000000	0.000000
2002	8	22	0	0	0.000000	-202.000000	0.000000
2002	8	23	0	0	0.000000	-789.000000	0.000000
2002	8	24	0	0	0.000000	-358.000000	0.000000
2002	8	25	0	0	0.000000	-875.000000	0.000000
2002	8	26	0	0	0.000000	-376.000000	0.000000
2002	8	27	0	0	0.000000	-724.000000	0.000000
2002	8	28	0	0	0.000000	-622.000000	0.000000
2002	8	29	0	0	0.000000	-531.000000	0.000000
2002	8	30	0	0	0.000000	-236.000000	0.000000
2002	8	31	0	0	0.000000	-399.000000	0.000000
2002	9	1	0	0	0.000000	-259.000000	0.000000
2002	9	2	0	0	0.000000	-709.000000	0.000000
2002	9	3	0	0	0.000000	-1620.000000	0.000000
2002	9	4	0	0	0.000000	-1360.000000	0.000000
2002	9	5	0	0	0.000000	-1020.000000	0.000000
2002	9	6	0	0	0.000000	-537.000000	0.000000
2002	9	7	0	0	0.000000	-817.000000	0.000000
2002	9	8	0	0	0.000000	-246.000000	0.000000
2002	9	9	0	0	0.000000	-449.000000	0.000000
2002	9	10	0	0	0.000000	-558.000000	0.000000
2002	9	11	0	0	0.000000	-530.000000	0.000000
2002	9	12	0	0	0.000000	-305.000000	0.000000
2002	9	13	0	0	0.000000	-307.000000	0.000000
2002	9	14	0	0	0.000000	-1230.000000	0.000000
2002	9	15	0	0	0.000000	-745.000000	0.000000
2002	9	16	0	0	0.000000	-209.000000	0.000000
2002	9	17	0	0	0.000000	-565.000000	0.000000
2002	9	18	0	0	0.000000	-384.000000	0.000000
2002	9	19	0	0	0.000000	-988.000000	0.000000
2002	9	20	0	0	0.000000	-1160.000000	0.000000
2002	9	21	0	0	0.000000	-362.000000	0.000000
2002	9	22	0	0	0.000000	-351.000000	0.000000
2002	9	23	0	0	0.000000	-1050.000000	0.000000
2002	9	24	0	0	0.000000	-726.000000	0.000000
2002	9	25	0	0	0.000000	-27.000000	0.000000
2002	9	26	0	0	0.000000	-272.000000	0.000000
2002	9	27	0	0	0.000000	-594.000000	0.000000
2002	9	28	0	0	0.000000	-186.000000	0.000000
2002	9	29	0	0	0.000000	-646.000000	0.000000
2002	9	30	0	0	0.000000	-548.000000	0.000000
2002	10	1	0	0	0.000000	-307.000000	0.000000
2002	10	2	0	0	0.000000	-32.000000	0.000000
2002	10	3	0	0	0.000000	-506.000000	0.000000
2002	10	4	0	0	0.000000	-331.000000	0.000000
2002	10	5	0	0	0.000000	-468.000000	0.000000
2002	10	6	0	0	0.000000	-361.000000	0.000000
2002	10	7	0	0	0.000000	-650.000000	0.000000
2002	10	8	0	0	0.000000	-679.000000	0.000000
2002	10	9	0	0	0.000000	-942.000000	0.000000
2002	10	10	0	0	0.000000	-1010.000000	0.000000
2002	10	11	0	0	0.000000	-1090.000000	0.000000
2002	10	12	0	0	0.000000	-365.000000	0.000000
2002	10	13	0	0	0.000000	-363.000000	0.000000
2002	10	14	0	0	0.000000	-807.000000	0.000000
2002	10	15	0	0	0.000000	-425.830000	0.000000
2002	10	16	0	0	0.000000	-360.660000	0.000000
2002	10	17	0	0	0.000000	-271.300000	0.000000
2002	10	18	0	0	0.000000	-486.000000	0.000000
2002	10	19	0	0	0.000000	-32.120000	0.000000
2002	10	20	0	0	0.000000	-358.000000	0.000000
2002	10	21	0	0	0.000000	-434.000000	0.000000
2002	10	22	0	0	0.000000	-211.500000	0.000000

2002	10	23	0	0	0.000000	-298.170000	0.000000
2002	10	24	0	0	0.000000	-259.880000	0.000000
2002	10	25	0	0	0.000000	-20.000000	0.000000
2002	10	26	0	0	0.000000	-20.000000	0.000000
2002	10	27	0	0	0.000000	-97.960000	0.000000
2002	10	28	0	0	0.000000	-20.000000	0.000000
2002	10	29	0	0	0.000000	-59.660000	0.000000
2002	10	30	0	0	0.000000	-82.500000	0.000000
2002	10	31	0	0	0.000000	-127.520000	0.000000
2002	11	1	0	0	0.000000	-20.000000	0.000000
2002	11	2	0	0	0.000000	-269.950000	0.000000
2002	11	3	0	0	0.000000	-94.600000	0.000000
2002	11	4	0	0	0.000000	-375.440000	0.000000
2002	11	5	0	0	0.000000	-44.210000	0.000000
2002	11	6	0	0	0.000000	-20.000000	0.000000
2002	11	7	0	0	0.000000	-76.460000	0.000000
2002	11	8	0	0	0.000000	-83.850000	0.000000
2002	11	9	0	0	0.000000	-90.570000	0.000000
2002	11	10	0	0	0.000000	-79.150000	0.000000
2002	11	11	0	0	0.000000	-88.550000	0.000000
2002	11	12	0	0	0.000000	-20.000000	0.000000
2002	11	13	0	0	0.000000	-54.960000	0.000000
2002	11	14	0	0	0.000000	-515.860000	0.000000
2002	11	15	0	0	0.000000	-369.390000	0.000000
2002	11	16	0	0	0.000000	-433.220000	0.000000
2002	11	17	0	0	0.000000	-101.320000	0.000000
2002	11	18	0	0	0.000000	-222.250000	0.000000
2002	11	19	0	0	0.000000	-214.860000	0.000000
2002	11	20	0	0	0.000000	-90.570000	0.000000
2002	11	21	0	0	0.000000	-165.140000	0.000000
2002	11	22	0	0	0.000000	-104.680000	0.000000
2002	11	23	0	0	0.000000	-20.000000	0.000000
2002	11	24	0	0	0.000000	-20.000000	0.000000
2002	11	25	0	0	0.000000	-20.000000	0.000000
2002	11	26	0	0	0.000000	-20.000000	0.000000
2002	11	27	0	0	0.000000	-20.000000	0.000000
2002	11	28	0	0	0.000000	-84.520000	0.000000
2002	11	29	0	0	0.000000	-20.000000	0.000000
2002	11	30	0	0	0.000000	-20.000000	0.000000
2002	12	1	0	0	0.000000	-20.000000	0.000000
2002	12	2	0	0	0.000000	-20.000000	0.000000
2002	12	3	0	0	0.000000	-76.460000	0.000000
2002	12	4	0	0	0.000000	-31.440000	0.000000
2002	12	5	0	0	0.000000	-89.900000	0.000000
2002	12	6	0	0	0.000000	-26.740000	0.000000
2002	12	7	0	0	0.000000	-26.740000	0.000000
2002	12	8	0	0	0.000000	-20.000000	0.000000
2002	12	9	0	0	0.000000	-20.000000	0.000000
2002	12	10	0	0	0.000000	-68.400000	0.000000
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2002	12	12	0	0	0.000000	-290.780000	0.000000
2002	12	13	0	0	0.000000	-27.410000	0.000000
2002	12	14	0	0	0.000000	-20.000000	0.000000
2002	12	15	0	0	0.000000	-122.140000	0.000000
2002	12	16	0	0	0.000000	-20.000000	0.000000
2002	12	17	0	0	0.000000	-55.630000	0.000000
2002	12	18	0	0	0.000000	-20.000000	0.000000
2002	12	19	0	0	0.000000	-34.130000	0.000000
2002	12	20	0	0	0.000000	-38.830000	0.000000
2002	12	21	0	0	0.000000	-20.000000	0.000000
2002	12	22	0	0	0.000000	-20.000000	0.000000
2002	12	23	0	0	0.000000	-20.000000	0.000000
2002	12	24	0	0	0.000000	-89.220000	0.000000
2002	12	25	0	0	0.000000	-114.750000	0.000000
2002	12	26	0	0	0.000000	-114.750000	0.000000
2002	12	27	0	0	0.000000	-90.570000	0.000000
2002	12	28	0	0	0.000000	-20.000000	0.000000
2002	12	29	0	0	0.000000	-25.400000	0.000000
2002	12	30	0	0	0.000000	-87.210000	0.000000
2002	12	31	0	0	0.000000	-61.680000	0.000000
2003	1	1	0	0	0.000000	-20.000000	0.000000
2003	1	2	0	0	0.000000	-97.290000	0.000000
2003	1	3	0	0	0.000000	-20.000000	0.000000
2003	1	4	0	0	0.000000	-20.020000	0.000000
2003	1	5	0	0	0.000000	-20.000000	0.000000
2003	1	6	0	0	0.000000	-20.000000	0.000000
2003	1	7	0	0	0.000000	-20.000000	0.000000
2003	1	8	0	0	0.000000	-230.310000	0.000000
2003	1	9	0	0	0.000000	-20.000000	0.000000
2003	1	10	0	0	0.000000	-20.000000	0.000000
2003	1	11	0	0	0.000000	-20.000000	0.000000
2003	1	12	0	0	0.000000	-20.000000	0.000000
2003	1	13	0	0	0.000000	-20.000000	0.000000
2003	1	14	0	0	0.000000	-20.000000	0.000000
2003	1	15	0	0	0.000000	-87.210000	0.000000
2003	1	16	0	0	0.000000	-20.000000	0.000000
2003	1	17	0	0	0.000000	-20.000000	0.000000
2003	1	18	0	0	0.000000	-20.000000	0.000000
2003	1	19	0	0	0.000000	-47.570000	0.000000
2003	1	20	0	0	0.000000	-20.000000	0.000000
2003	1	21	0	0	0.000000	-20.000000	0.000000
2003	1	22	0	0	0.000000	-20.000000	0.000000
2003	1	23	0	0	0.000000	-20.000000	0.000000
2003	1	24	0	0	0.000000	-156.410000	0.000000
2003	1	25	0	0	0.000000	-303.550000	0.000000
2003	1	26	0	0	0.000000	-138.940000	0.000000
2003	1	27	0	0	0.000000	-20.000000	0.000000
2003	1	28	0	0	0.000000	-20.000000	0.000000
2003	1	29	0	0	0.000000	-36.150000	0.000000
2003	1	30	0	0	0.000000	-63.020000	0.000000
2003	1	31	0	0	0.000000	-20.000000	0.000000
2003	2	1	0	0	0.000000	-227.630000	0.000000
2003	2	2	0	0	0.000000	-20.000000	0.000000
2003	2	3	0	0	0.000000	-20.000000	0.000000
2003	2	4	0	0	0.000000	-20.000000	0.000000
2003	2	5	0	0	0.000000	-28.760000	0.000000
2003	2	6	0	0	0.000000	-300.860000	0.000000
2003	2	7	0	0	0.000000	-60.330000	0.000000
2003	2	8	0	0	0.000000	-20.000000	0.000000
2003	2	9	0	0	0.000000	-20.690000	0.000000
2003	2	10	0	0	0.000000	-20.000000	0.000000
2003	2	11	0	0	0.000000	-149.690000	0.000000
2003	2	12	0	0	0.000000	-20.000000	0.000000
2003	2	13	0	0	0.000000	-20.000000	0.000000
2003	2	14	0	0	0.000000	-61.010000	0.000000
2003	2	15	0	0	0.000000	-71.080000	0.000000
2003	2	16	0	0	0.000000	-20.000000	0.000000
2003	2	17	0	0	0.000000	-20.000000	0.000000
2003	2	18	0	0	0.000000	-99.970000	0.000000
2003	2	19	0	0	0.000000	-67.720000	0.000000
2003	2	20	0	0	0.000000	-20.000000	0.000000
2003	2	21	0	0	0.000000	-82.500000	0.000000
2003	2	22	0	0	0.000000	-77.800000	0.000000
2003	2	23	0	0	0.000000	-51.600000	0.000000
2003	2	24	0	0	0.000000	-65.040000	0.000000
2003	2	25	0	0	0.000000	-20.000000	0.000000
2003	2	26	0	0	0.000000	-20.000000	0.000000
2003	2	27	0	0	0.000000	-107.360000	0.000000
2003	2	28	0	0	0.000000	-20.000000	0.000000
2003	3	1	0	0	0.000000	-48.240000	0.000000
2003	3	2	0	0	0.000000	-20.000000	0.000000
2003	3	3	0	0	0.000000	-50.260000	0.000000
2003	3	4	0	0	0.000000	-20.000000	0.000000
2003	3	5	0	0	0.000000	-20.000000	0.000000
2003	3	6	0	0	0.000000	-20.000000	0.000000
2003	3	7	0	0	0.000000	-99.300000	0.000000
2003	3	8	0	0	0.000000	-20.000000	0.000000
2003	3	9	0	0	0.000000	-75.790000	0.000000
2003	3	10	0	0	0.000000	-20.000000	0.000000
2003	3	11	0	0	0.000000	-76.460000	0.000000

2003	3	12	0	0	0.000000	-20.000000	0.000000
2003	3	13	0	0	0.000000	-25.400000	0.000000
2003	3	14	0	0	0.000000	-20.000000	0.000000
2003	3	15	0	0	0.000000	-20.000000	0.000000
2003	3	16	0	0	0.000000	-20.000000	0.000000
2003	3	17	0	0	0.000000	-70.410000	0.000000
2003	3	18	0	0	0.000000	-20.000000	0.000000
2003	3	19	0	0	0.000000	-73.100000	0.000000
2003	3	20	0	0	0.000000	-20.000000	0.000000
2003	3	21	0	0	0.000000	-22.710000	0.000000
2003	3	22	0	0	0.000000	-20.000000	0.000000
2003	3	23	0	0	0.000000	-24.050000	0.000000
2003	3	24	0	0	0.000000	-20.000000	0.000000
2003	3	25	0	0	0.000000	-48.240000	0.000000
2003	3	26	0	0	0.000000	-20.000000	0.000000
2003	3	27	0	0	0.000000	-20.000000	0.000000
2003	3	28	0	0	0.000000	-149.020000	0.000000
2003	3	29	0	0	0.000000	-20.000000	0.000000
2003	3	30	0	0	0.000000	-20.000000	0.000000
2003	3	31	0	0	0.000000	-20.000000	0.000000
2003	4	1	0	0	0.000000	-31.440000	0.000000
2003	4	2	0	0	0.000000	-20.000000	0.000000
2003	4	3	0	0	0.000000	-148.350000	0.000000
2003	4	4	0	0	0.000000	-69.070000	0.000000
2003	4	5	0	0	0.000000	-20.000000	0.000000
2003	4	6	0	0	0.000000	-74.440000	0.000000
2003	4	7	0	0	0.000000	-20.000000	0.000000
2003	4	8	0	0	0.000000	-71.080000	0.000000
2003	4	9	0	0	0.000000	-20.000000	0.000000
2003	4	10	0	0	0.000000	-20.000000	0.000000
2003	4	11	0	0	0.000000	-124.830000	0.000000
2003	4	12	0	0	0.000000	-20.000000	0.000000
2003	4	13	0	0	0.000000	-20.000000	0.000000
2003	4	14	0	0	0.000000	-97.290000	0.000000
2003	4	15	0	0	0.000000	-20.000000	0.000000
2003	4	16	0	0	0.000000	-20.000000	0.000000
2003	4	17	0	0	0.000000	-108.040000	0.000000
2003	4	18	0	0	0.000000	-125.500000	0.000000
2003	4	19	0	0	0.000000	-359.310000	0.000000
2003	4	20	0	0	0.000000	-226.960000	0.000000
2003	4	21	0	0	0.000000	-292.800000	0.000000
2003	4	22	0	0	0.000000	-557.510000	0.000000
2003	4	23	0	0	0.000000	-269.280000	0.000000
2003	4	24	0	0	0.000000	-20.000000	0.000000
2003	4	25	0	0	0.000000	-316.980000	0.000000
2003	4	26	0	0	0.000000	-723.460000	0.000000
2003	4	27	0	0	0.000000	-137.600000	0.000000
2003	4	28	0	0	0.000000	-50.260000	0.000000
2003	4	29	0	0	0.000000	-28.760000	0.000000
2003	4	30	0	0	0.000000	-67.720000	0.000000
2003	5	1	0	0	0.000000	-53.610000	0.000000
2003	5	2	0	0	0.000000	-20.000000	0.000000
2003	5	3	0	0	0.000000	-20.000000	0.000000
2003	5	4	0	0	0.000000	-20.000000	0.000000
2003	5	5	0	0	0.000000	-41.520000	0.000000
2003	5	6	0	0	0.000000	-82.500000	0.000000
2003	5	7	0	0	0.000000	-20.000000	0.000000
2003	5	8	0	0	0.000000	-20.000000	0.000000
2003	5	9	0	0	0.000000	-124.160000	0.000000
2003	5	10	0	0	0.000000	-20.000000	0.000000
2003	5	11	0	0	0.000000	-20.000000	0.000000
2003	5	12	0	0	0.000000	-103.330000	0.000000
2003	5	13	0	0	0.000000	-20.000000	0.000000
2003	5	14	0	0	0.000000	-95.940000	0.000000
2003	5	15	0	0	0.000000	-20.000000	0.000000
2003	5	16	0	0	0.000000	-20.000000	0.000000
2003	5	17	0	0	0.000000	-20.000000	0.000000
2003	5	18	0	0	0.000000	-331.090000	0.000000
2003	5	19	0	0	0.000000	-353.940000	0.000000
2003	5	20	0	0	0.000000	-844.400000	0.000000
2003	5	21	0	0	0.000000	-1012.360000	0.000000
2003	5	22	0	0	0.000000	-548.110000	0.000000
2003	5	23	0	0	0.000000	-58.320000	0.000000
2003	5	24	0	0	0.000000	-229.640000	0.000000
2003	5	25	0	0	0.000000	-20.000000	0.000000
2003	5	26	0	0	0.000000	-65.710000	0.000000
2003	5	27	0	0	0.000000	-33.460000	0.000000
2003	5	28	0	0	0.000000	-20.000000	0.000000
2003	5	29	0	0	0.000000	-20.000000	0.000000
2003	5	30	0	0	0.000000	-20.000000	0.000000
2003	5	31	0	0	0.000000	-53.610000	0.000000
2003	6	1	0	0	0.000000	-97.290000	0.000000
2003	6	2	0	0	0.000000	-259.200000	0.000000
2003	6	3	0	0	0.000000	-156.410000	0.000000
2003	6	4	0	0	0.000000	-20.000000	0.000000
2003	6	5	0	0	0.000000	-42.860000	0.000000
2003	6	6	0	0	0.000000	-347.220000	0.000000
2003	6	7	0	0	0.000000	-20.000000	0.000000
2003	6	8	0	0	0.000000	-161.780000	0.000000
2003	6	9	0	0	0.000000	-20.000000	0.000000
2003	6	10	0	0	0.000000	-20.000000	0.000000
2003	6	11	0	0	0.000000	-20.000000	0.000000
2003	6	12	0	0	0.000000	-20.000000	0.000000
2003	6	13	0	0	0.000000	-20.000000	0.000000
2003	6	14	0	0	0.000000	-46.900000	0.000000
2003	6	15	0	0	0.000000	-20.000000	0.000000
2003	6	16	0	0	0.000000	-164.470000	0.000000
2003	6	17	0	0	0.000000	-20.000000	0.000000
2003	6	18	0	0	0.000000	-20.000000	0.000000
2003	6	19	0	0	0.000000	-20.000000	0.000000
2003	6	20	0	0	0.000000	-365.360000	0.000000
2003	6	21	0	0	0.000000	-204.780000	0.000000
2003	6	22	0	0	0.000000	-382.830000	0.000000
2003	6	23	0	0	0.000000	-20.000000	0.000000
2003	6	24	0	0	0.000000	-20.000000	0.000000
2003	6	25	0	0	0.000000	-20.000000	0.000000
2003	6	26	0	0	0.000000	-20.000000	0.000000
2003	6	27	0	0	0.000000	-20.000000	0.000000
2003	6	28	0	0	0.000000	-95.270000	0.000000
2003	6	29	0	0	0.000000	-20.000000	0.000000
2003	6	30	0	0	0.000000	-20.000000	0.000000
2003	7	1	0	0	0.000000	-88.550000	0.000000
2003	7	2	0	0	0.000000	-34.130000	0.000000
2003	7	3	0	0	0.000000	-20.000000	0.000000
2003	7	4	0	0	0.000000	-20.000000	0.000000
2003	7	5	0	0	0.000000	-20.000000	0.000000
2003	7	6	0	0	0.000000	-114.080000	0.000000
2003	7	7	0	0	0.000000	-20.000000	0.000000
2003	7	8	0	0	0.000000	-20.000000	0.000000
2003	7	9	0	0	0.000000	-28.080000	0.000000
2003	7	10	0	0	0.000000	-20.000000	0.000000
2003	7	11	0	0	0.000000	-54.960000	0.000000
2003	7	12	0	0	0.000000	-20.000000	0.000000
2003	7	13	0	0	0.000000	-38.830000	0.000000
2003	7	14	0	0	0.000000	-20.000000	0.000000
2003	7	15	0	0	0.000000	-20.000000	0.000000
2003	7	16	0	0	0.000000	-83.850000	0.000000
2003	7	17	0	0	0.000000	-20.000000	0.000000
2003	7	18	0	0	0.000000	-95.270000	0.000000
2003	7	19	0	0	0.000000	-20.000000	0.000000
2003	7	20	0	0	0.000000	-20.000000	0.000000
2003	7	21	0	0	0.000000	-53.610000	0.000000
2003	7	22	0	0	0.000000	-20.000000	0.000000
2003	7	23	0	0	0.000000	-20.000000	0.000000
2003	7	24	0	0	0.000000	-92.580000	0.000000
2003	7	25	0	0	0.000000	-20.000000	0.000000
2003	7	26	0	0	0.000000	-20.000000	0.000000
2003	7	27	0	0	0.000000	-20.000000	0.000000
2003	7	28	0	0	0.000000	-106.690000	0.000000
2003	7	29	0	0	0.000000	-20.000000	0.000000

2003	7	30	0	0	0.000000	-69.740000	0.000000
2003	7	31	0	0	0.000000	-20.000000	0.000000
2003	8	1	0	0	0.000000	-20.000000	0.000000
2003	8	2	0	0	0.000000	-20.000000	0.000000
2003	8	3	0	0	0.000000	-20.000000	0.000000
2003	8	4	0	0	0.000000	-20.000000	0.000000
2003	8	5	0	0	0.000000	-78.470000	0.000000
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2003	8	7	0	0	0.000000	-20.000000	0.000000
2003	8	8	0	0	0.000000	-20.000000	0.000000
2003	8	9	0	0	0.000000	-20.000000	0.000000
2003	8	10	0	0	0.000000	-20.000000	0.000000
2003	8	11	0	0	0.000000	-118.110000	0.000000
2003	8	12	0	0	0.000000	-20.000000	0.000000
2003	8	13	0	0	0.000000	-20.000000	0.000000
2003	8	14	0	0	0.000000	-20.000000	0.000000
2003	8	15	0	0	0.000000	-143.640000	0.000000
2003	8	16	0	0	0.000000	-20.000000	0.000000
2003	8	17	0	0	0.000000	-20.000000	0.000000
2003	8	18	0	0	0.000000	-176.570000	0.000000
2003	8	19	0	0	0.000000	-149.020000	0.000000
2003	8	20	0	0	0.000000	-50.260000	0.000000
2003	8	21	0	0	0.000000	-20.000000	0.000000
2003	8	22	0	0	0.000000	-20.000000	0.000000
2003	8	23	0	0	0.000000	-20.000000	0.000000
2003	8	24	0	0	0.000000	-20.000000	0.000000
2003	8	25	0	0	0.000000	-435.900000	0.000000
2003	8	26	0	0	0.000000	-143.640000	0.000000
2003	8	27	0	0	0.000000	-113.410000	0.000000
2003	8	28	0	0	0.000000	-20.000000	0.000000
2003	8	29	0	0	0.000000	-20.000000	0.000000
2003	8	30	0	0	0.000000	-20.000000	0.000000
2003	8	31	0	0	0.000000	-196.050000	0.000000
2003	9	1	0	0	0.000000	-575.650000	0.000000
2003	9	2	0	0	0.000000	-622.680000	0.000000
2003	9	3	0	0	0.000000	-609.240000	0.000000
2003	9	4	0	0	0.000000	-289.440000	0.000000
2003	9	5	0	0	0.000000	-20.000000	0.000000
2003	9	6	0	0	0.000000	-125.500000	0.000000
2003	9	7	0	0	0.000000	-247.110000	0.000000
2003	9	8	0	0	0.000000	-308.250000	0.000000
2003	9	9	0	0	0.000000	-314.970000	0.000000
2003	9	10	0	0	0.000000	-259.200000	0.000000
2003	9	11	0	0	0.000000	-271.300000	0.000000
2003	9	12	0	0	0.000000	-276.670000	0.000000
2003	9	13	0	0	0.000000	-298.170000	0.000000
2003	9	14	0	0	0.000000	-20.000000	0.000000
2003	9	15	0	0	0.000000	-316.310000	0.000000
2003	9	16	0	0	0.000000	-478.230000	0.000000
2003	9	17	0	0	0.000000	-429.860000	0.000000
2003	9	18	0	0	0.000000	-319.670000	0.000000
2003	9	19	0	0	0.000000	-26.740000	0.000000
2003	9	20	0	0	0.000000	-161.780000	0.000000
2003	9	21	0	0	0.000000	-194.030000	0.000000
2003	9	22	0	0	0.000000	-353.940000	0.000000
2003	9	23	0	0	0.000000	-265.920000	0.000000
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2003	9	26	0	0	0.000000	-97.290000	0.000000
2003	9	27	0	0	0.000000	-40.850000	0.000000
2003	9	28	0	0	0.000000	-30.100000	0.000000
2003	9	29	0	0	0.000000	-116.100000	0.000000
2003	9	30	0	0	0.000000	-95.940000	0.000000
2003	10	1	0	0	0.000000	-20.000000	0.000000
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2003	10	3	0	0	0.000000	-20.000000	0.000000
2003	10	4	0	0	0.000000	-292.800000	0.000000
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2003	10	6	0	0	0.000000	-65.710000	0.000000
2003	10	7	0	0	0.000000	-636.120000	0.000000
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2003	10	9	0	0	0.000000	-185.970000	0.000000
2003	10	10	0	0	0.000000	-236.360000	0.000000
2003	10	11	0	0	0.000000	-120.800000	0.000000
2003	10	12	0	0	0.000000	-149.690000	0.000000
2003	10	13	0	0	0.000000	-58.990000	0.000000
2003	10	14	0	0	0.000000	-229.640000	0.000000
2003	10	15	0	0	0.000000	-263.240000	0.000000
2003	10	16	0	0	0.000000	-464.790000	0.000000
2003	10	17	0	0	0.000000	-431.870000	0.000000
2003	10	18	0	0	0.000000	-130.210000	0.000000
2003	10	19	0	0	0.000000	-214.190000	0.000000
2003	10	20	0	0	0.000000	-279.360000	0.000000
2003	10	21	0	0	0.000000	-636.120000	0.000000
2003	10	22	0	0	0.000000	-256.520000	0.000000
2003	10	23	0	0	0.000000	-288.090000	0.000000
2003	10	24	0	0	0.000000	-64.360000	0.000000
2003	10	25	0	0	0.000000	-55.630000	0.000000
2003	10	26	0	0	0.000000	-309.590000	0.000000
2003	10	27	0	0	0.000000	-540.710000	0.000000
2003	10	28	0	0	0.000000	-589.090000	0.000000
2003	10	29	0	0	0.000000	-522.570000	0.000000
2003	10	30	0	0	0.000000	-669.710000	0.000000
2003	10	31	0	0	0.000000	-1267.670000	0.000000
2003	11	1	0	0	0.000000	-763.770000	0.000000
2003	11	2	0	0	0.000000	-669.710000	0.000000
2003	11	3	0	0	0.000000	-490.330000	0.000000
2003	11	4	0	0	0.000000	-333.780000	0.000000
2003	11	5	0	0	0.000000	-214.860000	0.000000
2003	11	6	0	0	0.000000	-314.970000	0.000000
2003	11	7	0	0	0.000000	-318.330000	0.000000
2003	11	8	0	0	0.000000	-331.090000	0.000000
2003	11	9	0	0	0.000000	-306.910000	0.000000
2003	11	10	0	0	0.000000	-329.080000	0.000000
2003	11	11	0	0	0.000000	-271.300000	0.000000
2003	11	12	0	0	0.000000	-291.450000	0.000000
2003	11	13	0	0	0.000000	-6944.910000	0.000000
2003	11	14	0	0	0.000000	-5520.560000	0.000000
2003	11	15	0	0	0.000000	-1422.200000	0.000000
2003	11	16	0	0	0.000000	-2886.860000	0.000000
2003	11	17	0	0	0.000000	-1563.290000	0.000000
2003	11	18	0	0	0.000000	-1657.350000	0.000000
2003	11	19	0	0	0.000000	-1341.570000	0.000000
2003	11	20	0	0	0.000000	-938.460000	0.000000
2003	11	21	0	0	0.000000	-844.400000	0.000000
2003	11	22	0	0	0.000000	-857.830000	0.000000
2003	11	23	0	0	0.000000	-911.580000	0.000000
2003	11	24	0	0	0.000000	-797.370000	0.000000
2003	11	25	0	0	0.000000	-797.370000	0.000000
2003	11	26	0	0	0.000000	-703.310000	0.000000
2003	11	27	0	0	0.000000	-669.710000	0.000000
2003	11	28	0	0	0.000000	-649.560000	0.000000
2003	11	29	0	0	0.000000	-622.680000	0.000000
2003	11	30	0	0	0.000000	-609.240000	0.000000
2003	12	1	0	0	0.000000	-595.810000	0.000000
2003	12	2	0	0	0.000000	-575.650000	0.000000
2003	12	3	0	0	0.000000	-561.540000	0.000000
2003	12	4	0	0	0.000000	-515.860000	0.000000
2003	12	5	0	0	0.000000	-35.470000	0.000000
2003	12	6	0	0	0.000000	-172.530000	0.000000
2003	12	7	0	0	0.000000	-399.620000	0.000000
2003	12	8	0	0	0.000000	-508.470000	0.000000
2003	12	9	0	0	0.000000	-515.860000	0.000000
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2003	12	11	0	0	0.000000	-240.390000	0.000000
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2003	12	13	0	0	0.000000	-99.970000	0.000000
2003	12	14	0	0	0.000000	-32.790000	0.000000
2003	12	15	0	0	0.000000	-161.110000	0.000000
2003	12	16	0	0	0.000000	-189.330000	0.000000

2003	12	17	0	0	0.000000	-26.740000	0.000000
2003	12	18	0	0	0.000000	-129.540000	0.000000
2003	12	19	0	0	0.000000	-198.740000	0.000000
2003	12	20	0	0	0.000000	-132.220000	0.000000
2003	12	21	0	0	0.000000	-136.250000	0.000000
2003	12	22	0	0	0.000000	-126.850000	0.000000
2003	12	23	0	0	0.000000	-65.710000	0.000000
2003	12	24	0	0	0.000000	-24.050000	0.000000
2003	12	25	0	0	0.000000	-24.050000	0.000000
2003	12	26	0	0	0.000000	-24.720000	0.000000
2003	12	27	0	0	0.000000	-24.720000	0.000000
2003	12	28	0	0	0.000000	-108.040000	0.000000
2003	12	29	0	0	0.000000	-241.740000	0.000000
2003	12	30	0	0	0.000000	-173.210000	0.000000
2003	12	31	0	0	0.000000	-28.080000	0.000000
2004	1	1	0	0	0.000000	-21.370000	0.000000
2004	1	2	0	0	0.000000	-29.430000	0.000000
2004	1	3	0	0	0.000000	-27.410000	0.000000
2004	1	4	0	0	0.000000	-20.000000	0.000000
2004	1	5	0	0	0.000000	-133.570000	0.000000
2004	1	6	0	0	0.000000	-194.710000	0.000000
2004	1	7	0	0	0.000000	-97.290000	0.000000
2004	1	8	0	0	0.000000	-183.280000	0.000000
2004	1	9	0	0	0.000000	-194.710000	0.000000
2004	1	10	0	0	0.000000	-20.000000	0.000000
2004	1	11	0	0	0.000000	-20.000000	0.000000
2004	1	12	0	0	0.000000	-89.220000	0.000000
2004	1	13	0	0	0.000000	-118.790000	0.000000
2004	1	14	0	0	0.000000	-111.390000	0.000000
2004	1	15	0	0	0.000000	-113.410000	0.000000
2004	1	16	0	0	0.000000	-106.690000	0.000000
2004	1	17	0	0	0.000000	-22.710000	0.000000
2004	1	18	0	0	0.000000	-20.000000	0.000000
2004	1	19	0	0	0.000000	-201.420000	0.000000
2004	1	20	0	0	0.000000	-187.990000	0.000000
2004	1	21	0	0	0.000000	-259.200000	0.000000
2004	1	22	0	0	0.000000	-187.320000	0.000000
2004	1	23	0	0	0.000000	-194.710000	0.000000
2004	1	24	0	0	0.000000	-20.000000	0.000000
2004	1	25	0	0	0.000000	-163.800000	0.000000
2004	1	26	0	0	0.000000	-251.140000	0.000000
2004	1	27	0	0	0.000000	-181.940000	0.000000
2004	1	28	0	0	0.000000	-175.890000	0.000000
2004	1	29	0	0	0.000000	-141.630000	0.000000
2004	1	30	0	0	0.000000	-144.990000	0.000000
2004	1	31	0	0	0.000000	-201.420000	0.000000
2004	2	1	0	0	0.000000	-20.000000	0.000000
2004	2	2	0	0	0.000000	-206.130000	0.000000
2004	2	3	0	0	0.000000	-222.920000	0.000000
2004	2	4	0	0	0.000000	-200.750000	0.000000
2004	2	5	0	0	0.000000	-216.210000	0.000000
2004	2	6	0	0	0.000000	-36.820000	0.000000
2004	2	7	0	0	0.000000	-20.000000	0.000000
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2004	2	9	0	0	0.000000	-247.780000	0.000000
2004	2	10	0	0	0.000000	-168.500000	0.000000
2004	2	11	0	0	0.000000	-188.660000	0.000000
2004	2	12	0	0	0.000000	-169.170000	0.000000
2004	2	13	0	0	0.000000	-65.040000	0.000000
2004	2	14	0	0	0.000000	-158.430000	0.000000
2004	2	15	0	0	0.000000	-162.460000	0.000000
2004	2	16	0	0	0.000000	-228.970000	0.000000
2004	2	17	0	0	0.000000	-201.420000	0.000000
2004	2	18	0	0	0.000000	-193.360000	0.000000
2004	2	19	0	0	0.000000	-192.690000	0.000000
2004	2	20	0	0	0.000000	-20.000000	0.000000
2004	2	21	0	0	0.000000	-85.860000	0.000000
2004	2	22	0	0	0.000000	-124.830000	0.000000
2004	2	23	0	0	0.000000	-188.660000	0.000000
2004	2	24	0	0	0.000000	-20.000000	0.000000
2004	2	25	0	0	0.000000	-20.000000	0.000000
2004	2	26	0	0	0.000000	-71.750000	0.000000
2004	2	27	0	0	0.000000	-218.220000	0.000000
2004	2	28	0	0	0.000000	-181.940000	0.000000
2004	2	29	0	0	0.000000	-209.490000	0.000000
2004	3	1	0	0	0.000000	-231.660000	0.000000
2004	3	2	0	0	0.000000	-20.000000	0.000000
2004	3	3	0	0	0.000000	-20.000000	0.000000
2004	3	4	0	0	0.000000	-20.000000	0.000000
2004	3	5	0	0	0.000000	-20.000000	0.000000
2004	3	6	0	0	0.000000	-20.000000	0.000000
2004	3	7	0	0	0.000000	-30.770000	0.000000
2004	3	8	0	0	0.000000	-20.000000	0.000000
2004	3	9	0	0	0.000000	-20.000000	0.000000
2004	3	10	0	0	0.000000	-20.000000	0.000000
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2004	3	13	0	0	0.000000	-20.000000	0.000000
2004	3	14	0	0	0.000000	-20.000000	0.000000
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2004	3	17	0	0	0.000000	-107.360000	0.000000
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2004	3	19	0	0	0.000000	-20.000000	0.000000
2004	3	20	0	0	0.000000	-20.000000	0.000000
2004	3	21	0	0	0.000000	-20.000000	0.000000
2004	3	22	0	0	0.000000	-20.000000	0.000000
2004	3	23	0	0	0.000000	-20.000000	0.000000
2004	3	24	0	0	0.000000	-20.000000	0.000000
2004	3	25	0	0	0.000000	-20.000000	0.000000
2004	3	26	0	0	0.000000	-20.000000	0.000000
2004	3	27	0	0	0.000000	-39.510000	0.000000
2004	3	28	0	0	0.000000	-359.980000	0.000000
2004	3	29	0	0	0.000000	-539.370000	0.000000
2004	3	30	0	0	0.000000	-88.550000	0.000000
2004	3	31	0	0	0.000000	-91.910000	0.000000
2004	4	1	0	0	0.000000	-79.150000	0.000000
2004	4	2	0	0	0.000000	-20.000000	0.000000
2004	4	3	0	0	0.000000	-20.000000	0.000000
2004	4	4	0	0	0.000000	-30.100000	0.000000
2004	4	5	0	0	0.000000	-20.000000	0.000000
2004	4	6	0	0	0.000000	-20.000000	0.000000
2004	4	7	0	0	0.000000	-99.970000	0.000000
2004	4	8	0	0	0.000000	-145.660000	0.000000
2004	4	9	0	0	0.000000	-141.630000	0.000000
2004	4	10	0	0	0.000000	-158.430000	0.000000
2004	4	11	0	0	0.000000	-20.000000	0.000000
2004	4	12	0	0	0.000000	-20.000000	0.000000
2004	4	13	0	0	0.000000	-20.000000	0.000000
2004	4	14	0	0	0.000000	-20.000000	0.000000
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2004	4	19	0	0	0.000000	-216.210000	0.000000
2004	4	20	0	0	0.000000	-292.130000	0.000000
2004	4	21	0	0	0.000000	-286.080000	0.000000
2004	4	22	0	0	0.000000	-22.710000	0.000000
2004	4	23	0	0	0.000000	-20.000000	0.000000
2004	4	24	0	0	0.000000	-118.790000	0.000000
2004	4	25	0	0	0.000000	-126.180000	0.000000
2004	4	26	0	0	0.000000	-195.380000	0.000000
2004	4	27	0	0	0.000000	-20.000000	0.000000
2004	4	28	0	0	0.000000	-77.800000	0.000000
2004	4	29	0	0	0.000000	-106.020000	0.000000
2004	4	30	0	0	0.000000	-75.790000	0.000000
2004	5	1	0	0	0.000000	-20.000000	0.000000
2004	5	2	0	0	0.000000	-20.000000	0.000000
2004	5	3	0	0	0.000000	-21.370000	0.000000
2004	5	4	0	0	0.000000	-224.940000	0.000000

2004	5	5	0	0	0.000000	-144.990000	0.000000
2004	5	6	0	0	0.000000	-79.150000	0.000000
2004	5	7	0	0	0.000000	-226.280000	0.000000
2004	5	8	0	0	0.000000	-1113.140000	0.000000
2004	5	9	0	0	0.000000	-1576.730000	0.000000
2004	5	10	0	0	0.000000	-1247.510000	0.000000
2004	5	11	0	0	0.000000	-743.620000	0.000000
2004	5	12	0	0	0.000000	-750.340000	0.000000
2004	5	13	0	0	0.000000	-609.240000	0.000000
2004	5	14	0	0	0.000000	-560.870000	0.000000
2004	5	15	0	0	0.000000	-830.960000	0.000000
2004	5	16	0	0	0.000000	-736.900000	0.000000
2004	5	17	0	0	0.000000	-331.090000	0.000000
2004	5	18	0	0	0.000000	-359.310000	0.000000
2004	5	19	0	0	0.000000	-351.920000	0.000000
2004	5	20	0	0	0.000000	-317.660000	0.000000
2004	5	21	0	0	0.000000	-424.480000	0.000000
2004	5	22	0	0	0.000000	-419.110000	0.000000
2004	5	23	0	0	0.000000	-424.480000	0.000000
2004	5	24	0	0	0.000000	-357.970000	0.000000
2004	5	25	0	0	0.000000	-356.620000	0.000000
2004	5	26	0	0	0.000000	-473.530000	0.000000
2004	5	27	0	0	0.000000	-457.400000	0.000000
2004	5	28	0	0	0.000000	-471.510000	0.000000
2004	5	29	0	0	0.000000	-790.650000	0.000000
2004	5	30	0	0	0.000000	-129.540000	0.000000
2004	5	31	0	0	0.000000	-390.220000	0.000000
2004	6	1	0	0	0.000000	-228.300000	0.000000
2004	6	2	0	0	0.000000	-298.840000	0.000000
2004	6	3	0	0	0.000000	-331.770000	0.000000
2004	6	4	0	0	0.000000	-205.460000	0.000000
2004	6	5	0	0	0.000000	-235.690000	0.000000
2004	6	6	0	0	0.000000	-77.130000	0.000000
2004	6	7	0	0	0.000000	-243.080000	0.000000
2004	6	8	0	0	0.000000	-271.970000	0.000000
2004	6	9	0	0	0.000000	-170.520000	0.000000
2004	6	10	0	0	0.000000	-20.000000	0.000000
2004	6	11	0	0	0.000000	-50.930000	0.000000
2004	6	12	0	0	0.000000	-376.780000	0.000000
2004	6	13	0	0	0.000000	-171.860000	0.000000
2004	6	14	0	0	0.000000	-126.850000	0.000000
2004	6	15	0	0	0.000000	-209.490000	0.000000
2004	6	16	0	0	0.000000	-207.470000	0.000000
2004	6	17	0	0	0.000000	-20.000000	0.000000
2004	6	18	0	0	0.000000	-130.880000	0.000000
2004	6	19	0	0	0.000000	-20.000000	0.000000
2004	6	20	0	0	0.000000	-212.850000	0.000000
2004	6	21	0	0	0.000000	-225.610000	0.000000
2004	6	22	0	0	0.000000	-212.850000	0.000000
2004	6	23	0	0	0.000000	-173.880000	0.000000
2004	6	24	0	0	0.000000	-20.000000	0.000000
2004	6	25	0	0	0.000000	-97.290000	0.000000
2004	6	26	0	0	0.000000	-263.910000	0.000000
2004	6	27	0	0	0.000000	-30.770000	0.000000
2004	6	28	0	0	0.000000	-233.000000	0.000000
2004	6	29	0	0	0.000000	-175.890000	0.000000
2004	6	30	0	0	0.000000	-202.100000	0.000000
2004	7	1	0	0	0.000000	-117.440000	0.000000
2004	7	2	0	0	0.000000	-152.380000	0.000000
2004	7	3	0	0	0.000000	-146.330000	0.000000
2004	7	4	0	0	0.000000	-77.800000	0.000000
2004	7	5	0	0	0.000000	-26.740000	0.000000
2004	7	6	0	0	0.000000	-359.980000	0.000000
2004	7	7	0	0	0.000000	-257.860000	0.000000
2004	7	8	0	0	0.000000	-20.000000	0.000000
2004	7	9	0	0	0.000000	-103.330000	0.000000
2004	7	10	0	0	0.000000	-97.960000	0.000000
2004	7	11	0	0	0.000000	-66.380000	0.000000
2004	7	12	0	0	0.000000	-125.500000	0.000000
2004	7	13	0	0	0.000000	-26.740000	0.000000
2004	7	14	0	0	0.000000	-314.970000	0.000000
2004	7	15	0	0	0.000000	-296.830000	0.000000
2004	7	16	0	0	0.000000	-243.080000	0.000000
2004	7	17	0	0	0.000000	-20.000000	0.000000
2004	7	18	0	0	0.000000	-20.000000	0.000000
2004	7	19	0	0	0.000000	-226.960000	0.000000
2004	7	20	0	0	0.000000	-20.000000	0.000000
2004	7	21	0	0	0.000000	-20.000000	0.000000
2004	7	22	0	0	0.000000	-20.000000	0.000000
2004	7	23	0	0	0.000000	-76.460000	0.000000
2004	7	24	0	0	0.000000	-20.000000	0.000000
2004	7	25	0	0	0.000000	-20.000000	0.000000
2004	7	26	0	0	0.000000	-20.000000	0.000000
2004	7	27	0	0	0.000000	-20.000000	0.000000
2004	7	28	0	0	0.000000	-130.210000	0.000000
2004	7	29	0	0	0.000000	-127.520000	0.000000
2004	7	30	0	0	0.000000	-32.120000	0.000000
2004	7	31	0	0	0.000000	-20.000000	0.000000
2004	8	1	0	0	0.000000	-20.000000	0.000000
2004	8	2	0	0	0.000000	-20.000000	0.000000
2004	8	3	0	0	0.000000	-20.000000	0.000000
2004	8	4	0	0	0.000000	-169.850000	0.000000
2004	8	5	0	0	0.000000	-130.880000	0.000000
2004	8	6	0	0	0.000000	-153.720000	0.000000
2004	8	7	0	0	0.000000	-35.470000	0.000000
2004	8	8	0	0	0.000000	-25.400000	0.000000
2004	8	9	0	0	0.000000	-247.110000	0.000000
2004	8	10	0	0	0.000000	-116.100000	0.000000
2004	8	11	0	0	0.000000	-114.080000	0.000000
2004	8	12	0	0	0.000000	-214.860000	0.000000
2004	8	13	0	0	0.000000	-270.630000	0.000000
2004	8	14	0	0	0.000000	-80.490000	0.000000
2004	8	15	0	0	0.000000	-54.290000	0.000000
2004	8	16	0	0	0.000000	-213.520000	0.000000
2004	8	17	0	0	0.000000	-239.050000	0.000000
2004	8	18	0	0	0.000000	-50.260000	0.000000
2004	8	19	0	0	0.000000	-299.520000	0.000000
2004	8	20	0	0	0.000000	-44.880000	0.000000
2004	8	21	0	0	0.000000	-41.520000	0.000000
2004	8	22	0	0	0.000000	-20.000000	0.000000
2004	8	23	0	0	0.000000	-196.720000	0.000000
2004	8	24	0	0	0.000000	-280.030000	0.000000
2004	8	25	0	0	0.000000	-83.180000	0.000000
2004	8	26	0	0	0.000000	-55.630000	0.000000
2004	8	27	0	0	0.000000	-52.270000	0.000000
2004	8	28	0	0	0.000000	-63.020000	0.000000
2004	8	29	0	0	0.000000	-200.750000	0.000000
2004	8	30	0	0	0.000000	-898.150000	0.000000
2004	8	31	0	0	0.000000	-239.050000	0.000000
2004	9	1	0	0	0.000000	-20.000000	0.000000
2004	9	2	0	0	0.000000	-20.000000	0.000000
2004	9	3	0	0	0.000000	-104.000000	0.000000
2004	9	4	0	0	0.000000	-20.000000	0.000000
2004	9	5	0	0	0.000000	-99.300000	0.000000
2004	9	6	0	0	0.000000	-20.000000	0.000000
2004	9	7	0	0	0.000000	-20.000000	0.000000
2004	9	8	0	0	0.000000	-264.580000	0.000000
2004	9	9	0	0	0.000000	-239.720000	0.000000
2004	9	10	0	0	0.000000	-117.440000	0.000000
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2004	9	12	0	0	0.000000	-97.290000	0.000000
2004	9	13	0	0	0.000000	-318.330000	0.000000
2004	9	14	0	0	0.000000	-904.860000	0.000000
2004	9	15	0	0	0.000000	-904.860000	0.000000
2004	9	16	0	0	0.000000	-3014.510000	0.000000
2004	9	17	0	0	0.000000	-1791.720000	0.000000
2004	9	18	0	0	0.000000	-998.930000	0.000000
2004	9	19	0	0	0.000000	-904.860000	0.000000
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2004	9	21	0	0	0.000000	-540.040000	0.000000

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2004	9	23	0	0	0.000000	-256.520000	0.000000
2004	9	24	0	0	0.000000	-253.830000	0.000000
2004	9	25	0	0	0.000000	-233.000000	0.000000
2004	9	26	0	0	0.000000	-285.410000	0.000000
2004	9	27	0	0	0.000000	-180.600000	0.000000
2004	9	28	0	0	0.000000	-251.140000	0.000000
2004	9	29	0	0	0.000000	-247.110000	0.000000
2004	9	30	0	0	0.000000	-277.340000	0.000000
2004	10	1	0	0	0.000000	-120.800000	0.000000
2004	10	2	0	0	0.000000	-20.000000	0.000000
2004	10	3	0	0	0.000000	-183.280000	0.000000
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2004	10	6	0	0	0.000000	-413.730000	0.000000
2004	10	7	0	0	0.000000	-447.330000	0.000000
2004	10	8	0	0	0.000000	-662.990000	0.000000
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2004	10	10	0	0	0.000000	-385.510000	0.000000
2004	10	11	0	0	0.000000	-382.160000	0.000000
2004	10	12	0	0	0.000000	-297.500000	0.000000
2004	10	13	0	0	0.000000	-770.490000	0.000000
2004	10	14	0	0	0.000000	-595.810000	0.000000
2004	10	15	0	0	0.000000	-595.810000	0.000000
2004	10	16	0	0	0.000000	-473.530000	0.000000
2004	10	17	0	0	0.000000	-77.130000	0.000000
2004	10	18	0	0	0.000000	-235.020000	0.000000
2004	10	19	0	0	0.000000	-392.910000	0.000000
2004	10	20	0	0	0.000000	-78.470000	0.000000
2004	10	21	0	0	0.000000	-20.000000	0.000000
2004	10	22	0	0	0.000000	-192.690000	0.000000
2004	10	23	0	0	0.000000	-209.490000	0.000000
2004	10	24	0	0	0.000000	-20.000000	0.000000
2004	10	25	0	0	0.000000	-224.270000	0.000000
2004	10	26	0	0	0.000000	-222.920000	0.000000
2004	10	27	0	0	0.000000	-29.430000	0.000000
2004	10	28	0	0	0.000000	-52.940000	0.000000
2004	10	29	0	0	0.000000	-148.350000	0.000000
2004	10	30	0	0	0.000000	-104.000000	0.000000
2004	10	31	0	0	0.000000	-231.660000	0.000000
2004	11	1	0	0	0.000000	-297.500000	0.000000
2004	11	2	0	0	0.000000	-196.050000	0.000000
2004	11	3	0	0	0.000000	-144.990000	0.000000
2004	11	4	0	0	0.000000	-310.940000	0.000000
2004	11	5	0	0	0.000000	-262.560000	0.000000
2004	11	6	0	0	0.000000	-33.460000	0.000000
2004	11	7	0	0	0.000000	-89.900000	0.000000
2004	11	8	0	0	0.000000	-271.300000	0.000000
2004	11	9	0	0	0.000000	-290.110000	0.000000
2004	11	10	0	0	0.000000	-272.640000	0.000000
2004	11	11	0	0	0.000000	-242.410000	0.000000
2004	11	12	0	0	0.000000	-992.210000	0.000000
2004	11	13	0	0	0.000000	-4304.490000	0.000000
2004	11	14	0	0	0.000000	-4532.920000	0.000000
2004	11	15	0	0	0.000000	-3175.760000	0.000000
2004	11	16	0	0	0.000000	-1811.880000	0.000000
2004	11	17	0	0	0.000000	-1187.050000	0.000000
2004	11	18	0	0	0.000000	-1025.800000	0.000000
2004	11	19	0	0	0.000000	-871.270000	0.000000
2004	11	20	0	0	0.000000	-877.990000	0.000000
2004	11	21	0	0	0.000000	-1146.730000	0.000000
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2004	11	24	0	0	0.000000	-810.800000	0.000000
2004	11	25	0	0	0.000000	-710.020000	0.000000
2004	11	26	0	0	0.000000	-750.340000	0.000000
2004	11	27	0	0	0.000000	-938.460000	0.000000
2004	11	28	0	0	0.000000	-493.010000	0.000000
2004	11	29	0	0	0.000000	-696.590000	0.000000
2004	11	30	0	0	0.000000	-22.040000	0.000000
2004	12	1	0	0	0.000000	-457.400000	0.000000
2004	12	2	0	0	0.000000	-47.570000	0.000000
2004	12	3	0	0	0.000000	-81.160000	0.000000
2004	12	4	0	0	0.000000	-85.860000	0.000000
2004	12	5	0	0	0.000000	-20.000000	0.000000
2004	12	6	0	0	0.000000	-194.030000	0.000000
2004	12	7	0	0	0.000000	-102.660000	0.000000
2004	12	8	0	0	0.000000	-96.610000	0.000000
2004	12	9	0	0	0.000000	-102.660000	0.000000
2004	12	10	0	0	0.000000	-101.320000	0.000000
2004	12	11	0	0	0.000000	-100.640000	0.000000
2004	12	12	0	0	0.000000	-102.660000	0.000000
2004	12	13	0	0	0.000000	-95.940000	0.000000
2004	12	14	0	0	0.000000	-152.380000	0.000000
2004	12	15	0	0	0.000000	-357.970000	0.000000
2004	12	16	0	0	0.000000	-532.650000	0.000000
2004	12	17	0	0	0.000000	-548.780000	0.000000
2004	12	18	0	0	0.000000	-85.190000	0.000000
2004	12	19	0	0	0.000000	-95.270000	0.000000
2004	12	20	0	0	0.000000	-94.600000	0.000000
2004	12	21	0	0	0.000000	-93.930000	0.000000
2004	12	22	0	0	0.000000	-77.130000	0.000000
2004	12	23	0	0	0.000000	-89.900000	0.000000
2004	12	24	0	0	0.000000	-97.960000	0.000000
2004	12	25	0	0	0.000000	-58.990000	0.000000
2004	12	26	0	0	0.000000	-87.210000	0.000000
2004	12	27	0	0	0.000000	-85.860000	0.000000
2004	12	28	0	0	0.000000	-86.540000	0.000000
2004	12	29	0	0	0.000000	-86.540000	0.000000
2004	12	30	0	0	0.000000	-146.330000	0.000000
2004	12	31	0	0	0.000000	-84.520000	0.000000
2005	1	1	0	0	0.000000	-20.000000	0.000000
2005	1	2	0	0	0.000000	-21.370000	0.000000
2005	1	3	0	0	0.000000	-79.820000	0.000000
2005	1	4	0	0	0.000000	-97.960000	0.000000
2005	1	5	0	0	0.000000	-76.460000	0.000000
2005	1	6	0	0	0.000000	-121.470000	0.000000
2005	1	7	0	0	0.000000	-28.760000	0.000000
2005	1	8	0	0	0.000000	-46.220000	0.000000
2005	1	9	0	0	0.000000	-296.830000	0.000000
2005	1	10	0	0	0.000000	-208.810000	0.000000
2005	1	11	0	0	0.000000	-106.020000	0.000000
2005	1	12	0	0	0.000000	-115.430000	0.000000
2005	1	13	0	0	0.000000	-364.690000	0.000000
2005	1	14	0	0	0.000000	-568.930000	0.000000
2005	1	15	0	0	0.000000	-287.420000	0.000000
2005	1	16	0	0	0.000000	-44.880000	0.000000
2005	1	17	0	0	0.000000	-98.630000	0.000000
2005	1	18	0	0	0.000000	-286.080000	0.000000
2005	1	19	0	0	0.000000	-454.720000	0.000000
2005	1	20	0	0	0.000000	-1133.300000	0.000000
2005	1	21	0	0	0.000000	-958.610000	0.000000
2005	1	22	0	0	0.000000	-622.680000	0.000000
2005	1	23	0	0	0.000000	-319.670000	0.000000
2005	1	24	0	0	0.000000	-120.130000	0.000000
2005	1	25	0	0	0.000000	-300.860000	0.000000
2005	1	26	0	0	0.000000	-246.440000	0.000000
2005	1	27	0	0	0.000000	-122.140000	0.000000
2005	1	28	0	0	0.000000	-392.910000	0.000000
2005	1	29	0	0	0.000000	-95.940000	0.000000
2005	1	30	0	0	0.000000	-374.760000	0.000000
2005	1	31	0	0	0.000000	-437.920000	0.000000
2005	2	1	0	0	0.000000	-217.550000	0.000000
2005	2	2	0	0	0.000000	-210.160000	0.000000
2005	2	3	0	0	0.000000	-155.740000	0.000000
2005	2	4	0	0	0.000000	-216.210000	0.000000
2005	2	5	0	0	0.000000	-232.330000	0.000000
2005	2	6	0	0	0.000000	-28.760000	0.000000
2005	2	7	0	0	0.000000	-259.200000	0.000000
2005	2	8	0	0	0.000000	-209.490000	0.000000

2005	2	9	0	0	0.000000	-46.220000	0.000000
2005	2	10	0	0	0.000000	-93.930000	0.000000
2005	2	11	0	0	0.000000	-87.880000	0.000000
2005	2	12	0	0	0.000000	-96.610000	0.000000
2005	2	13	0	0	0.000000	-145.660000	0.000000
2005	2	14	0	0	0.000000	-237.700000	0.000000
2005	2	15	0	0	0.000000	-281.380000	0.000000
2005	2	16	0	0	0.000000	-250.470000	0.000000
2005	2	17	0	0	0.000000	-68.400000	0.000000
2005	2	18	0	0	0.000000	-26.070000	0.000000
2005	2	19	0	0	0.000000	-20.000000	0.000000
2005	2	20	0	0	0.000000	-20.000000	0.000000
2005	2	21	0	0	0.000000	-471.510000	0.000000
2005	2	22	0	0	0.000000	-61.680000	0.000000
2005	2	23	0	0	0.000000	-95.940000	0.000000
2005	2	24	0	0	0.000000	-243.750000	0.000000
2005	2	25	0	0	0.000000	-20.000000	0.000000
2005	2	26	0	0	0.000000	-80.490000	0.000000
2005	2	27	0	0	0.000000	-38.830000	0.000000
2005	2	28	0	0	0.000000	-290.110000	0.000000
2005	3	1	0	0	0.000000	-32.120000	0.000000
2005	3	2	0	0	0.000000	-179.920000	0.000000
2005	3	3	0	0	0.000000	-56.300000	0.000000
2005	3	4	0	0	0.000000	-20.000000	0.000000
2005	3	5	0	0	0.000000	-64.360000	0.000000
2005	3	6	0	0	0.000000	-20.000000	0.000000
2005	3	7	0	0	0.000000	-212.170000	0.000000
2005	3	8	0	0	0.000000	-69.070000	0.000000
2005	3	9	0	0	0.000000	-247.780000	0.000000
2005	3	10	0	0	0.000000	-20.000000	0.000000
2005	3	11	0	0	0.000000	-20.000000	0.000000
2005	3	12	0	0	0.000000	-20.000000	0.000000
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2005	3	14	0	0	0.000000	-20.000000	0.000000
2005	3	15	0	0	0.000000	-93.930000	0.000000
2005	3	16	0	0	0.000000	-20.000000	0.000000
2005	3	17	0	0	0.000000	-20.000000	0.000000
2005	3	18	0	0	0.000000	-140.280000	0.000000
2005	3	19	0	0	0.000000	-20.000000	0.000000
2005	3	20	0	0	0.000000	-73.770000	0.000000
2005	3	21	0	0	0.000000	-20.000000	0.000000
2005	3	22	0	0	0.000000	-20.000000	0.000000
2005	3	23	0	0	0.000000	-20.000000	0.000000
2005	3	24	0	0	0.000000	-20.000000	0.000000
2005	3	25	0	0	0.000000	-20.000000	0.000000
2005	3	26	0	0	0.000000	-69.740000	0.000000
2005	3	27	0	0	0.000000	-20.000000	0.000000
2005	3	28	0	0	0.000000	-21.370000	0.000000
2005	3	29	0	0	0.000000	-66.380000	0.000000
2005	3	30	0	0	0.000000	-20.000000	0.000000
2005	3	31	0	0	0.000000	-115.430000	0.000000
2005	4	1	0	0	0.000000	-179.250000	0.000000
2005	4	2	0	0	0.000000	-95.940000	0.000000
2005	4	3	0	0	0.000000	-58.990000	0.000000
2005	4	4	0	0	0.000000	-110.050000	0.000000
2005	4	5	0	0	0.000000	-72.430000	0.000000
2005	4	6	0	0	0.000000	-344.530000	0.000000
2005	4	7	0	0	0.000000	-243.750000	0.000000
2005	4	8	0	0	0.000000	-44.880000	0.000000
2005	4	9	0	0	0.000000	-73.770000	0.000000
2005	4	10	0	0	0.000000	-90.570000	0.000000
2005	4	11	0	0	0.000000	-245.770000	0.000000
2005	4	12	0	0	0.000000	-595.810000	0.000000
2005	4	13	0	0	0.000000	-394.250000	0.000000
2005	4	14	0	0	0.000000	-172.530000	0.000000
2005	4	15	0	0	0.000000	-20.000000	0.000000
2005	4	16	0	0	0.000000	-43.540000	0.000000
2005	4	17	0	0	0.000000	-304.890000	0.000000
2005	4	18	0	0	0.000000	-38.160000	0.000000
2005	4	19	0	0	0.000000	-750.340000	0.000000
2005	4	20	0	0	0.000000	-1408.760000	0.000000
2005	4	21	0	0	0.000000	-1079.550000	0.000000
2005	4	22	0	0	0.000000	-468.150000	0.000000
2005	4	23	0	0	0.000000	-582.370000	0.000000
2005	4	24	0	0	0.000000	-65.710000	0.000000
2005	4	25	0	0	0.000000	-343.190000	0.000000
2005	4	26	0	0	0.000000	-427.170000	0.000000
2005	4	27	0	0	0.000000	-312.950000	0.000000
2005	4	28	0	0	0.000000	-173.880000	0.000000
2005	4	29	0	0	0.000000	-157.750000	0.000000
2005	4	30	0	0	0.000000	-155.740000	0.000000
2005	5	1	0	0	0.000000	-151.030000	0.000000
2005	5	2	0	0	0.000000	-112.740000	0.000000
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2005	5	4	0	0	0.000000	-20.000000	0.000000
2005	5	5	0	0	0.000000	-20.000000	0.000000
2005	5	6	0	0	0.000000	-32.120000	0.000000
2005	5	7	0	0	0.000000	-44.210000	0.000000
2005	5	8	0	0	0.000000	-155.070000	0.000000
2005	5	9	0	0	0.000000	-622.680000	0.000000
2005	5	10	0	0	0.000000	-972.050000	0.000000
2005	5	11	0	0	0.000000	-278.690000	0.000000
2005	5	12	0	0	0.000000	-155.070000	0.000000
2005	5	13	0	0	0.000000	-357.300000	0.000000
2005	5	14	0	0	0.000000	-547.430000	0.000000
2005	5	15	0	0	0.000000	-218.220000	0.000000
2005	5	16	0	0	0.000000	-362.670000	0.000000
2005	5	17	0	0	0.000000	-284.740000	0.000000
2005	5	18	0	0	0.000000	-797.370000	0.000000
2005	5	19	0	0	0.000000	-1119.860000	0.000000
2005	5	20	0	0	0.000000	-837.680000	0.000000
2005	5	21	0	0	0.000000	-392.910000	0.000000
2005	5	22	0	0	0.000000	-366.030000	0.000000
2005	5	23	0	0	0.000000	-527.950000	0.000000
2005	5	24	0	0	0.000000	-1321.420000	0.000000
2005	5	25	0	0	0.000000	-1455.790000	0.000000
2005	5	26	0	0	0.000000	-931.740000	0.000000
2005	5	27	0	0	0.000000	-213.520000	0.000000
2005	5	28	0	0	0.000000	-562.210000	0.000000
2005	5	29	0	0	0.000000	-918.300000	0.000000
2005	5	30	0	0	0.000000	-365.360000	0.000000
2005	5	31	0	0	0.000000	-517.200000	0.000000
2005	6	1	0	0	0.000000	-247.780000	0.000000
2005	6	2	0	0	0.000000	-237.030000	0.000000
2005	6	3	0	0	0.000000	-294.810000	0.000000
2005	6	4	0	0	0.000000	-224.270000	0.000000
2005	6	5	0	0	0.000000	-642.840000	0.000000
2005	6	6	0	0	0.000000	-519.220000	0.000000
2005	6	7	0	0	0.000000	-117.440000	0.000000
2005	6	8	0	0	0.000000	-245.770000	0.000000
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2005	6	13	0	0	0.000000	-248.450000	0.000000
2005	6	14	0	0	0.000000	-316.980000	0.000000
2005	6	15	0	0	0.000000	-249.130000	0.000000
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2005	6	19	0	0	0.000000	-352.590000	0.000000
2005	6	20	0	0	0.000000	-435.900000	0.000000
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2005	6	22	0	0	0.000000	-101.320000	0.000000
2005	6	23	0	0	0.000000	-387.530000	0.000000
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2005	6	29	0	0	0.000000	-354.610000	0.000000
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2005	9	25	0	0	0.000000	-390.890000	0.000000
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2005	9	27	0	0	0.000000	-710.020000	0.000000
2005	9	28	0	0	0.000000	-1334.860000	0.000000
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2005	10	13	0	0	0.000000	-2880.140000	0.000000
2005	10	14	0	0	0.000000	-2262.030000	0.000000
2005	10	15	0	0	0.000000	-1153.450000	0.000000
2005	10	16	0	0	0.000000	-951.890000	0.000000
2005	10	17	0	0	0.000000	-864.550000	0.000000
2005	10	18	0	0	0.000000	-851.120000	0.000000
2005	10	19	0	0	0.000000	-844.400000	0.000000
2005	10	20	0	0	0.000000	-589.090000	0.000000
2005	10	21	0	0	0.000000	-568.930000	0.000000
2005	10	22	0	0	0.000000	-386.860000	0.000000
2005	10	23	0	0	0.000000	-459.420000	0.000000
2005	10	24	0	0	0.000000	-523.250000	0.000000
2005	10	25	0	0	0.000000	-505.780000	0.000000
2005	10	26	0	0	0.000000	-589.090000	0.000000
2005	10	27	0	0	0.000000	-351.250000	0.000000
2005	10	28	0	0	0.000000	-575.650000	0.000000
2005	10	29	0	0	0.000000	-499.730000	0.000000
2005	10	30	0	0	0.000000	-443.970000	0.000000
2005	10	31	0	0	0.000000	-529.970000	0.000000
2005	11	1	0	0	0.000000	-512.090000	0.000000
2005	11	2	0	0	0.000000	-494.220000	0.000000
2005	11	3	0	0	0.000000	-476.350000	0.000000
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2005	11	9	0	0	0.000000	-369.120000	0.000000
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2005	11	13	0	0	0.000000	-297.640000	0.000000
2005	11	14	0	0	0.000000	-279.760000	0.000000
2005	11	15	0	0	0.000000	-261.890000	0.000000

2005	11	16	0	0	0.000000	-313.630000	0.000000
2005	11	17	0	0	0.000000	-128.190000	0.000000
2005	11	18	0	0	0.000000	-63.690000	0.000000
2005	11	19	0	0	0.000000	-118.790000	0.000000
2005	11	20	0	0	0.000000	-52.940000	0.000000
2005	11	21	0	0	0.000000	-255.850000	0.000000
2005	11	22	0	0	0.000000	-49.580000	0.000000
2005	11	23	0	0	0.000000	-316.980000	0.000000
2005	11	24	0	0	0.000000	-20.000000	0.000000
2005	11	25	0	0	0.000000	-39.510000	0.000000
2	1	1	66	2141	septics_2141	1	
1980	1	1	0	0	0.003617	0.000000	368721320.400000
2010	1	1	0	0	0.003617	0.000000	368744155.228800
2	1	1	67	2142	septics_2142	1	
1980	1	1	0	0	0.111005	0.000000	11315982905.999998
2010	1	1	0	0	0.111005	0.000000	11315961090.583199
2	1	1	68	2143	septics_2143	1	
1980	1	1	0	0	0.040800	0.000000	4159200960.000000
2010	1	1	0	0	0.040800	0.000000	4159163751.462000
2	1	1	69	2144	septics_2144	1	
1980	1	1	0	0	0.545490	0.000000	55607905188.000000
2010	1	1	0	0	0.545490	0.000000	55607867061.991188
2	1	1	70	2151	PR0024821	1	
1980	1	1	0	0	0.019000	0.000000	4164365.810898
2010	1	1	0	0	0.019000	0.000000	4164365.810898
2	1	1	71	2151	septics_2151	1	
1980	1	1	0	0	0.161602	0.000000	16473901802.399998
2010	1	1	0	0	0.161602	0.000000	16473865919.097597
2	1	1	72	3011	PR0023001	1	
1980	1	1	0	0	0.050400	0.000000	176016893.352169
2010	1	1	0	0	0.050400	0.000000	176016893.352169
2	1	1	73	3011	septics_3011	1	
1980	1	1	0	0	0.260476	0.000000	26553236011.199997
2010	1	1	0	0	0.260476	0.000000	26553250282.968002
2	1	1	74	3021	PR0020745	1	
1980	1	1	0	0	0.200400	0.000000	689924025.459753
2010	1	1	0	0	0.200400	0.000000	689924025.459753
2	1	1	75	3021	PR0022705	1	
1980	1	1	0	0	0.033900	0.000000	69116.133600
2010	1	1	0	0	0.033900	0.000000	69116.133600
2	1	1	76	3021	septics_3021	1	
1980	1	1	0	0	0.192416	0.000000	19615117939.200001
2010	1	1	0	0	0.192416	0.000000	19615103769.373199
2	1	1	77	3022	septics_3022	1	
1980	1	1	0	0	0.085117	0.000000	8676929120.400002
2010	1	1	0	0	0.085117	0.000000	8676915052.514401
2	1	1	78	3031	septics_3031	1	
1980	1	1	0	0	0.075444	0.000000	7690851892.799998
2010	1	1	0	0	0.075444	0.000000	7690869936.392400
2	1	1	79	3041	septics_3041	1	
1980	1	1	0	0	0.007799	0.000000	795039418.800000
2010	1	1	0	0	0.007799	0.000000	795042986.742000
2	1	1	80	3051	septics_3051	1	
1980	1	1	0	0	0.021119	0.000000	2152896202.800000
2010	1	1	0	0	0.021119	0.000000	2152935755.985600
2	1	1	81	3061	septics_3061	1	
1980	1	1	0	0	0.020890	0.000000	2129551668.000000
2010	1	1	0	0	0.020890	0.000000	2129518944.874800
2	1	1	82	3071	septics_3071	1	
1980	1	1	0	0	0.235690	0.000000	24026521428.000000
2010	1	1	0	0	0.235690	0.000000	24026491966.993198
2	1	1	83	3081	PR0024643	1	
1980	1	1	0	0	0.047000	0.000000	99633.760938
2010	1	1	0	0	0.047000	0.000000	99633.760938
2	1	1	84	3081	PR0025968	1	
1980	1	1	0	0	0.044200	0.000000	1613076.772320
2010	1	1	0	0	0.044200	0.000000	1613076.772320
2	1	1	85	3081	septics_3081	1	
1980	1	1	0	0	0.167809	0.000000	17106650830.799999
2010	1	1	0	0	0.167809	0.000000	17106683961.690002
2	1	1	86	3091	PR0025216	1	
1980	1	1	0	0	0.008000	0.000000	16914.899434
2010	1	1	0	0	0.008000	0.000000	16914.899434
2	1	1	87	3091	septics_3091	1	
1980	1	1	0	0	0.110739	0.000000	11288866546.799999
2010	1	1	0	0	0.110739	0.000000	11288876638.978798
2	1	1	88	3092	PR0024180	1	
1980	1	1	0	0	0.059400	0.000000	11358024.639398
2010	1	1	0	0	0.059400	0.000000	11358024.639398
2	1	1	89	3092	septics_3092	1	
1980	1	1	0	0	0.010080	0.000000	1027567296.000000
2010	1	1	0	0	0.010080	0.000000	1027518262.282800
2	1	1	90	3100	PR0022501	1	
1980	1	1	0	0	0.271500	0.000000	1495224.182059
2010	1	1	0	0	0.271500	0.000000	1495224.182059
2	1	1	91	3100	PR0023124	1	
1980	1	1	0	0	0.007600	0.000000	1413565.733305
2010	1	1	0	0	0.007600	0.000000	1413565.733305
2	1	1	92	3100	septics_3100	1	
1980	1	1	0	0	0.311723	0.000000	31777416687.599995
2010	1	1	0	0	0.311723	0.000000	31777455629.138393
2	1	1	93	3101	septics_3101	1	
1980	1	1	0	0	0.139234	0.000000	14193681040.799997
2010	1	1	0	0	0.139234	0.000000	14193689399.978401
2	1	1	94	3102	septics_3102	1	
1980	1	1	0	0	0.145411	0.000000	14823371833.200001
2010	1	1	0	0	0.145411	0.000000	14823404046.619200
2	1	1	95	3103	septics_3103	1	
1980	1	1	0	0	0.035251	0.000000	3593529241.200000
2010	1	1	0	0	0.035251	0.000000	3593492644.309200
2	1	1	96	3104	PR0020427	1	
1980	1	1	0	0	0.859600	0.000000	3251271897.545021
2010	1	1	0	0	0.859600	0.000000	3251271897.545021
2	1	1	97	3104	septics_3104	1	
1980	1	1	0	0	0.532202	0.000000	54253310522.399986
2010	1	2	0	0	0.532202	0.000000	54253359861.940804
2	1	1	98	3105	septics_3105	1	
1980	1	1	0	0	0.271444	0.000000	27671327092.800003
2010	1	3	0	0	0.271444	0.000000	27671332291.801205
2	1	1	99	3111	septics_3111	1	
1980	1	1	0	0	0.180997	0.000000	18451051376.400002
2010	1	4	0	0	0.180997	0.000000	18451034454.160797