

Watershed Summary Information

Accounting Unit Name: Calcasieu-Mermentau

State(s): LA

Political Boundaries: Cameron, Calcasieu

Major Waterways: Calcasieu R
Old East Bayou
Bayou Chopique
Black Bayou
Calcasieu L

Number of Stations in Watershed: Tier1 - 26
Tier2 - 52
Tier3 - 22

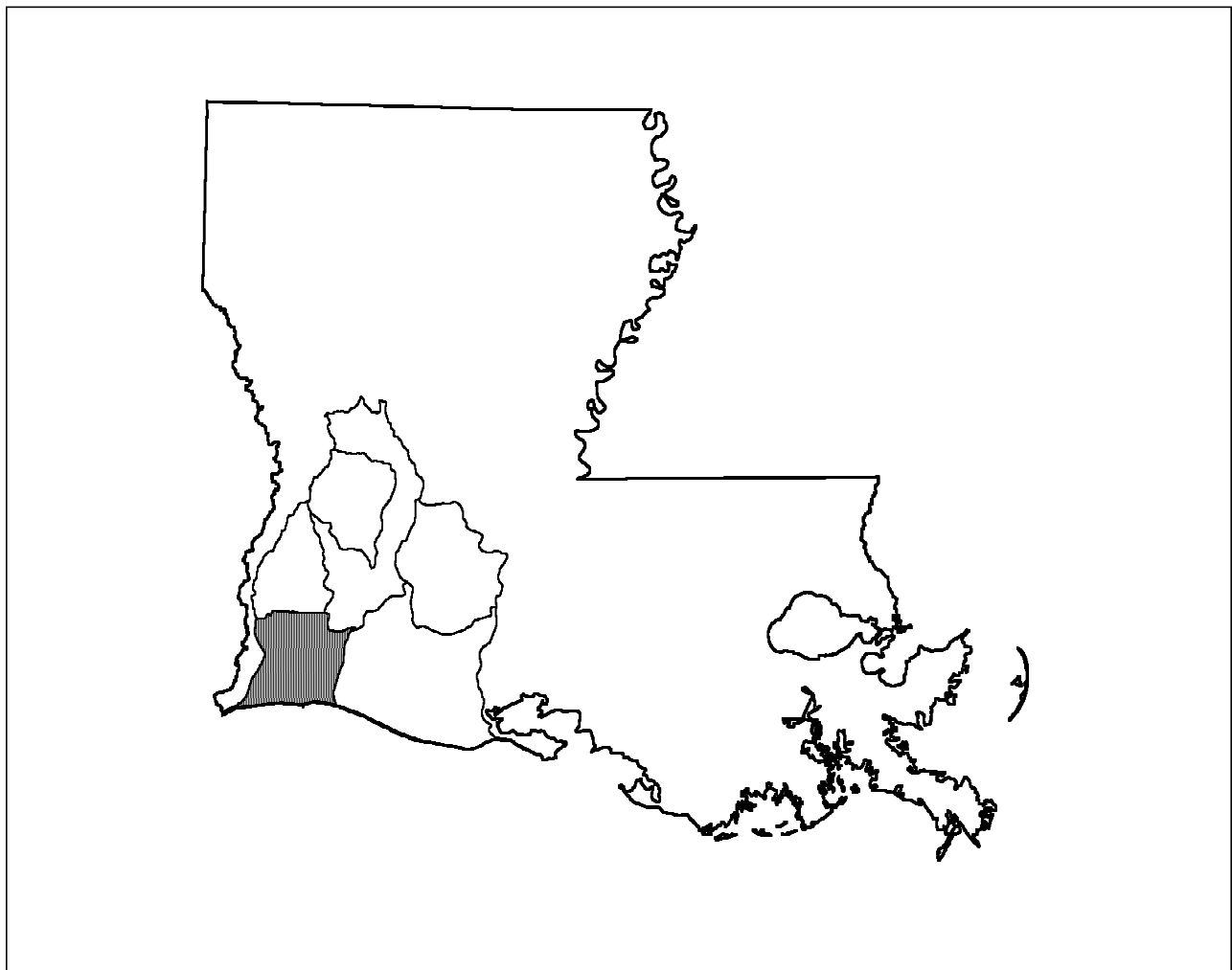


Figure 147. Watershed Location Map

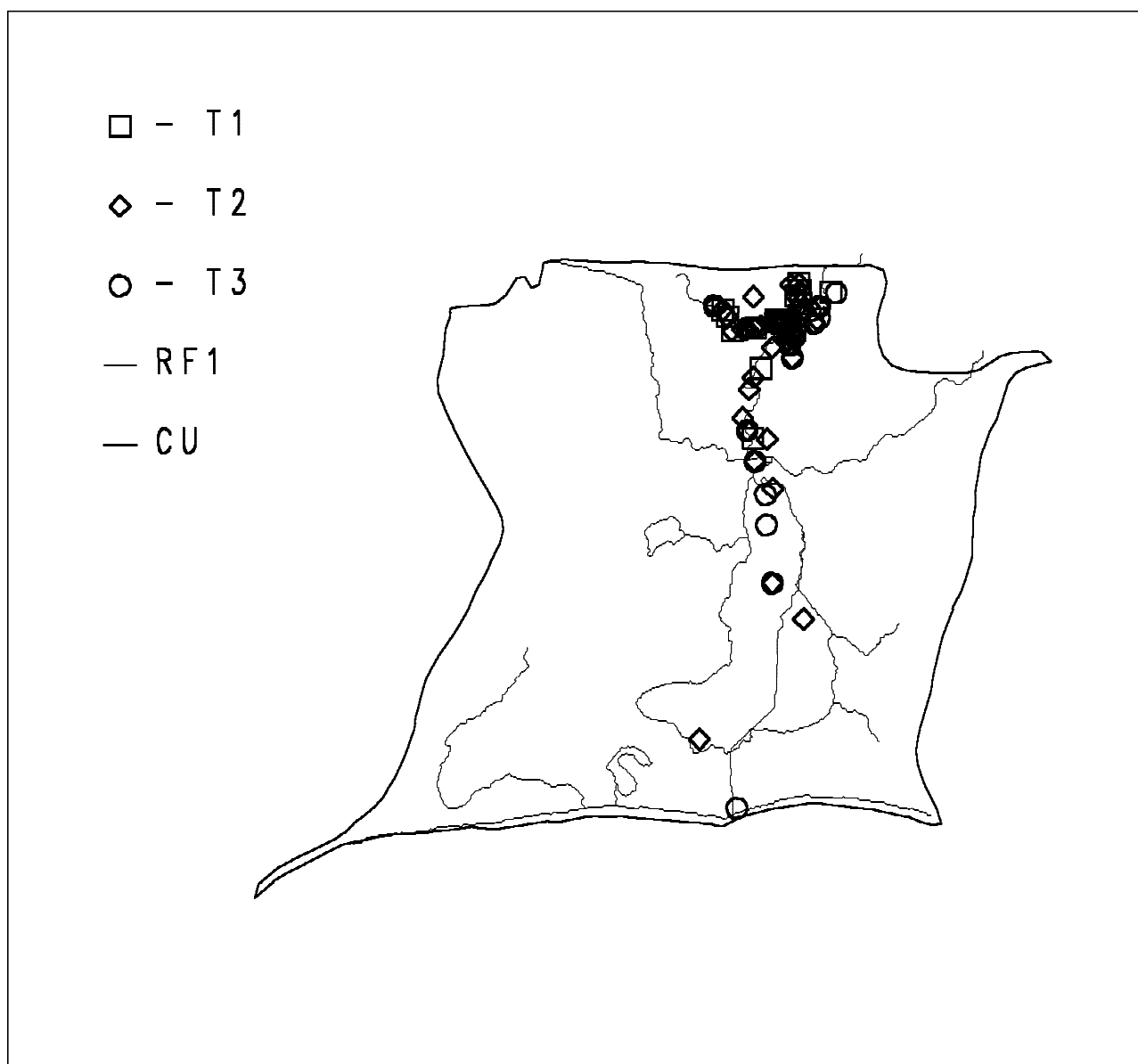


Figure 148. Major Waterways and Location of Sampling Stations

Data Source(s) Used in Evaluation

Source: **COSED** Agency: **NS&T**
 Monitoring Program: **NOAA/National Status and Trends**
 Num. of Stations: 6 Date Range: 1986-88

Source: **EMAP-LA** Agency: **EMAPLA**
 Monitoring Program: **EMAP-LA Province**
 Num. of Stations: 2 Date Range: 1991-92

Source: **GOM** Agency:
 Monitoring Program:
 Num. of Stations: 1 Date Range: 1988

Source: **GOM** Agency: **EPA-HOUSTON**
 Monitoring Program: **EPA-Houston**
 Num. of Stations: 21 Date Range: 1988-89

Source: **GOM** Agency: **ERL-N**
 Monitoring Program: **ERL-N**
 Num. of Stations: 37 Date Range: 1988-89

Source: **GOM** Agency: **TVA**
 Monitoring Program: **TVA**
 Num. of Stations: 1 Date Range: 1988

Source: **GOM** Agency: **USGS**
 Monitoring Program: **USGS**
 Num. of Stations: 5 Date Range: 1988

Source: **STORET** Agency: **11BIOACC**
 Monitoring Program: **USEPA National Bioaccumulation Study**
 Num. of Stations: 1 Date Range: 1987

Source: **STORET** Agency: **11POX06**
 Monitoring Program: **USEPA Region 6 Data**
 Num. of Stations: 1 Date Range: 1980-81

Source: **STORET** Agency: **112WRD**
 Monitoring Program: **US Geological Survey Data**
 Num. of Stations: 25 Date Range: 1985-90

Chemicals Responsible for Sampling Station Classification as Tier 1 or Tier 2

Classifying Parameter	Number of Stations							
	All Parameters				Aquatic Life		Human Health	
	Total	T.1&2	Tier1	Tier2	Tier1	Tier2	Tier1	Tier2
Mercury	44	30	12	18	12	18	.	.
Copper	37	20	.	20	.	20	.	.
Lead	56	20	.	20	.	20	.	.
Chromium	58	14	2	12	2	12	.	.
Bis(2-ethylhexyl)phthalate	22	11	7	4	7	4	.	6
Nickel	29	11	.	11	.	11	.	.
Naphthalene	33	10	.	10	.	10	.	.
Polychlorinated biphenyls	29	9	4	5	3	1	1	8
Hexachlorobenzene	31	9	.	9	.	9	.	9
Hexachlorobutadiene	25	9	.	9	.	9	.	8
Zinc	36	9	.	9	.	9	.	.
Phenanthrene	34	8	7	1	7	1	.	.
Pyrene	33	8	7	1	7	1	.	.
Dichlorobenzene, 1,2-	23	8	5	3	5	3	.	.
Benzo(a)pyrene	29	8	3	5	3	1	.	8
Trichlorobenzene, 1,2,4-	24	8	2	6	2	6	.	.
Dibenzo(a,h)anthracene	30	7	.	7	.	7	.	6

Classifying Parameter	Number of Stations							
	All Parameters				Aquatic Life		Human Health	
	Total	T.1&2	Tier1	Tier2	Tier1	Tier2	Tier1	Tier2
Isophorone	28	7	.	7	.	.	.	7
Silver	15	6	.	6	.	6	.	.
Trichloroethane, 1,1,1-	23	6	.	6	.	6	.	.
Chrysene	33	5	4	1	4	1	.	2
Fluoranthene	33	5	4	1	4	1	.	.
Arsenic	31	5	.	5	.	5	.	.
Dichlorobenzene, 1,4-	23	4	4	.	4	.	.	2
Fluorene	29	4	4	.	4	.	.	.
Benzo(a)anthracene	31	4	3	1	3	1	.	3
Cadmium	33	4	.	4	.	4	.	.
Acenaphthene	28	3	2	1	2	1	.	.
Benzo(b)fluoranthene	28	3	.	3	.	1	.	3
Phenol	22	3	.	3	.	3	.	.
Anthracene	26	2	2	.	2	.	.	.
DDT	29	2	2	.	2	.	.	.
Acenaphthylene	27	2	1	1	1	1	.	.
Aldrin	22	2	.	2	.	.	.	2
Bromophenyl phenyl ether, 4-	22	2	.	2	.	2	.	.
Dichlorobenzene, 1,3-	23	2	.	2	.	2	.	.
Indeno(1,2,3-cd)pyrene	29	2	.	2	.	1	.	2
Tetrachloroethane, 1,1,2,2-	19	2	.	2	.	1	.	2
Tetrachloroethene	19	2	.	2	.	2	.	.
Diethyl phthalate	22	1	1	.	1	.	.	.
Dioxins	2	1	1	.	.	.	1	.
Benzo(ghi)perylene	29	1	.	1	.	1	.	.
BHC	24	1	.	1	.	1	.	.
Chlordane	27	1	.	1	.	1	.	.
Di-n-butyl phthalate	22	1	.	1	.	1	.	.
Dieldrin	26	1	.	1	.	.	.	1
Dimethyl phthalate	22	1	.	1	.	1	.	.
Heptachlor epoxide	22	1	.	1	.	.	.	1
Hexachloroethane	22	1	.	1	.	1	.	.
HMW_PAHs	2	1	.	1	.	1	.	.
Methylnaphthalene, 2-	2	1	.	1	.	1	.	.
Pentachlorobenzene	1	1	.	1	.	1	.	.
SEM_est	2	1	.	1	.	1	.	.
Toxaphene	19	1	.	1	.	1	.	1

Sediment Chemistry Data: Chemical Summary

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Acenaphthene	59	267.13	0.00	6	7700.00	2.90
Acenaphthylene	59	127.45	0.00	5	7500.00	2.00
Acrylonitrile	26	0.00	0.00	0	.	.
Aldrin	26	1.26	0.00	4	32.00	0.07
Anthracene	58	475.16	0.00	4	25500.00	5.20
Anthracene&Phenanthrene	1	0.00	0.00	0	.	.
Antimony	9	496.67	550.00	8	700.00	310.00
Arsenic	36	4160.14	2613.50	35	12000.00	1100.00
Benzene	26	0.00	0.00	0	.	.
Benzo(a)anthracene	66	116.39	0.00	14	4100.00	3.66
Benzo(a)pyrene	63	438.90	0.00	15	22000.00	3.59
Benzo(b)fluoranthene	60	435.43	0.00	8	21000.00	3.18
Benzo(ghi)perylene	61	352.83	0.00	11	20000.00	3.96
Benzo(k)fluoranthene	59	29.56	0.00	6	1700.00	3.18
Biphenyl	3	4.63	3.30	2	10.59	3.30
Bis(2-ethylhexyl)phthalate	54	4216.85	170.00	27	21000.00	340.00
Bromophenyl phenyl ether, 4-	53	803.58	0.00	6	12000.00	290.00
Butyl benzyl phthalate	54	10.56	0.00	1	570.00	570.00
BHC	37	0.04	0.00	5	0.68	0.03
Cadmium	43	236.49	0.00	16	4000.00	55.00
Chlordane	37	0.22	0.00	12	5.36	0.01
Chlorobenzene	26	0.00	0.00	0	.	.
Chromium	73	59544.11	38000.00	72	490000.0	8000.00
Chrysene	68	430.40	0.00	18	9470.00	4.77
Copper	42	48214.95	19500.00	41	377000.0	3000.00
Di-n-butyl phthalate	54	27.78	0.00	1	1500.00	1500.00
Di-n-octyl phthalate	54	0.00	0.00	0	.	.
Diazinon/Spectracide	21	0.00	0.00	1	0.10	0.10
Dibenzo(a,h)anthracene	62	2.28	0.00	7	40.33	9.00
Dibromochloromethane	26	0.00	0.00	0	.	.
Dichlorobenzene, 1,2-	55	650.91	0.00	14	6400.00	800.00
Dichlorobenzene, 1,3-	56	423.57	0.00	7	7220.00	470.00
Dichlorobenzene, 1,4-	56	232.86	0.00	7	3630.00	430.00
Dichloroethane 1,1-	26	0.00	0.00	0	.	.
Dichloroethane 1,2-	27	30.52	0.00	3	420.00	4.00
Dichloroethene, trans-1,2-	26	17.69	0.00	1	460.00	460.00
Dichloromethane	34	349.44	305.00	32	830.00	1.00
Dichloropropane, 1,2-	25	0.00	0.00	0	.	.
Dieldrin	32	0.08	0.00	10	0.64	0.02
Diethyl phthalate	54	351.85	0.00	1	19000.00	19000.00
Dimethyl phthalate	52	230.77	0.00	1	12000.00	12000.00
Dimethylphenol, 2,4-	54	0.00	0.00	0	.	.

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Dioxins	1	0.00	0.00	0	.	.
DDT	122	3.42	0.00	33	370.00	0.03
Endosulfan mixed isomers	16	0.00	0.00	0	.	.
Endosulfan, alpha-	9	0.00	0.00	0	.	.
Endosulfan, beta-	8	0.00	0.00	0	.	.
Endrin	22	0.00	0.00	0	.	.
Ethion/Bladen	21	0.00	0.00	0	.	.
Ethylbenzene	26	0.00	0.00	0	.	.
Fluoranthene	68	1270.67	0.00	30	19000.00	4.24
Fluorene	61	383.43	0.00	8	11000.00	2.50
Heptachlor	27	0.01	0.00	4	0.23	0.03
Heptachlor epoxide	25	0.15	0.00	2	3.38	0.42
Hexachlorobenzene	63	21114.41	0.35	35	470000.0	0.06
Hexachlorobutadiene	57	23139.30	770.00	30	630000.0	770.00
Hexachloroethane	54	20.37	0.00	1	1100.00	1100.00
HMW_PAHs	2	542.17	542.17	2	907.44	176.89
Indeno(1,2,3-cd)pyrene	61	370.24	0.00	9	22000.00	2.65
Isophorone	61	5643.44	0.00	8	65100.00	22800.00
Lead	67	36692.84	30000.00	67	190000.0	4700.00
LMW_PAHs	2	154.05	154.05	2	186.91	121.19
Malathion	21	0.00	0.00	0	.	.
Mercury	58	819.67	280.00	55	6300.00	18.10
Methoxychlor	20	0.00	0.00	0	.	.
Methylnaphthalene, 2-	2	16.72	16.72	2	29.78	3.66
Mirex/Dechlorane	27	0.03	0.00	5	0.30	0.05
Naphthalene	66	148.10	0.00	20	1200.00	2.73
Nickel	33	16720.09	13000.00	32	50000.00	4170.00
Nitrosodiphenylamine, N-	54	0.00	0.00	0	.	.
Pentachlorobenzene	2	15950.00	15950.00	2	17000.00	14900.00
Pentachlorophenol	54	0.00	0.00	0	.	.
Phenanthrene	69	2307.69	0.00	27	68000.00	6.70
Phenol	54	362.96	0.00	5	6600.00	1300.00
Polychlorinated biphenyls	153	148.33	0.00	14	19300.00	0.86
Pyrene	68	1325.88	0.00	30	13500.00	7.07
Silver	19	845.84	110.00	18	3000.00	48.00
SEM_est	2	1.42	1.42	2	1.73	1.11
Tetrachloroethane, 1,1,2,2-	26	565.38	0.00	2	13000.00	1700.00
Tetrachloroethene	26	9.73	0.00	2	170.00	83.00
Tetrachloromethane	25	0.00	0.00	0	.	.
Toluene	26	0.00	0.00	0	.	.
Toxaphene	23	217.39	0.00	1	5000.00	5000.00
Tribromomethane/Bromoform	26	0.00	0.00	0	.	.
Trichlorobenzene, 1,2,4-	56	2848.75	0.00	26	26000.00	320.00
Trichloroethane, 1,1,1-	29	834.14	0.00	13	4900.00	1.00

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Trichloroethane, 1,1,2-	26	0.00	0.00	0	.	.
Trichloroethene	26	3.77	0.00	1	98.00	98.00
Trichlorofluoromethane	25	0.00	0.00	0	.	.
Trichloromethane/Chloroform	26	0.00	0.00	0	.	.
Zinc	41	127645.2	85000.00	41	1234000	14000.00

Tissue Residue Data: Chemical Summary

Tissue Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Biphenyl	1	0.00	0.00	0	.	.
BHC	2	2.11	2.11	1	4.23	4.23
Chlordane	2	3.31	3.31	1	6.62	6.62
Chlorpyrifos/Dursban	1	0.00	0.00	0	.	.
Dicofol/Kelthane	1	0.00	0.00	0	.	.
Dieldrin	1	25.10	25.10	1	25.10	25.10
Dioxins	2	0.00	0.00	1	0.00	0.00
DDT	1	48.60	48.60	1	48.60	48.60
Endrin	1	0.00	0.00	0	.	.
Heptachlor	1	0.00	0.00	0	.	.
Heptachlor epoxide	1	0.00	0.00	0	.	.
Hexachlorobutadiene	1	0.00	0.00	0	.	.
Isopropalin	1	0.00	0.00	0	.	.
Mercury	2	155.02	155.02	2	310.00	0.04
Methoxychlor	1	0.00	0.00	0	.	.
Mirex/Dechlorane	1	0.00	0.00	0	.	.
Pentachloronitrobenzene/Quin	1	0.00	0.00	0	.	.
Polychlorinated biphenyls	1	1117.00	1117.00	1	1117.00	1117.00
Tetrachlorobenzene, 1,2,4,5-	1	3.17	3.17	1	3.17	3.17
Trichlorobenzene, 1,2,4-	1	0.00	0.00	0	.	.
Trifluralin/Treflan	1	0.00	0.00	0	.	.

Biotoxicity Data

Lat.	Long.	Date	Species Name	Phase	% Mortality		Sign.
					Test	Control	
Monitoring Program: EMAP-LA Province							
29.9392	93.2752	92-08-11	Ampelisca Abdita	S	4.96	4.00	no
30.1210	93.3385	91-07-15	Ampelisca Abdita	S	61.99	14.00	Yes
Monitoring Program: ERL-N							
29.9717	93.3075	88-07-26	Ampelisca Abdita	S	4.47	0.00	no
30.0517	93.3150	88-07-26	Ampelisca Abdita	S	1.10	0.00	no
30.0817	93.3256	88-07-26	Ampelisca Abdita	S	8.30	0.00	no

Lat.	Long.	Date	Species Name	Phase	% Mortality		Sign.
					Test	Control	
30.1097	93.3333	88-07-26	Ampelisca Abdita	S	17.80	0.00	no
30.1469	93.3317	88-07-26	Ampelisca Abdita	S	22.20	0.00	Yes
30.1578	93.3269	88-07-26	Ampelisca Abdita	S	44.43	0.00	Yes
30.1753	93.2861	88-07-08	Ampelisca Abdita	S	5.57	4.47	no
30.1847	93.3072	88-07-26	Ampelisca Abdita	S	48.90	0.00	Yes
30.1867	93.2886	88-06-22	Ampelisca Abdita	S	4.47	3.30	no
30.1942	93.2842	88-07-08	Ampelisca Abdita	S	10.00	4.47	no
30.1972	93.2878	88-07-08	Ampelisca Abdita	S	4.43	4.47	no
30.1978	93.2881	88-06-22	Ampelisca Abdita	S	70.00	3.30	Yes
30.1997	93.3486	88-06-22	Ampelisca Abdita	S	31.13	3.30	Yes
		89-04-04	Ampelisca Abdita	S	35.57	1.10	Yes
30.2008	93.3331	88-06-22	Ampelisca Abdita	S	96.67	3.30	Yes
30.2011	93.2914	88-06-22	Ampelisca Abdita	S	100.00	3.30	Yes
30.2011	93.3372	88-06-22	Ampelisca Abdita	S	97.77	3.30	Yes
30.2025	93.3244	88-07-08	Ampelisca Abdita	S	23.33	4.47	no
30.2064	93.2969	88-07-08	Ampelisca Abdita	S	100.00	4.47	Yes
30.2067	93.2639	88-07-26	Ampelisca Abdita	S	5.57	0.00	no
30.2083	93.3008	88-07-08	Ampelisca Abdita	S	39.99	4.47	Yes
30.2092	93.2933	88-06-22	Ampelisca Abdita	S	100.00	3.30	Yes
30.2092	93.2964	88-06-22	Ampelisca Abdita	S	93.33	3.30	Yes
30.2097	93.3036	88-07-08	Ampelisca Abdita	S	40.03	4.47	Yes
30.2125	93.3539	89-04-04	Ampelisca Abdita	S	93.33	1.10	Yes
30.2133	93.2800	88-07-08	Ampelisca Abdita	S	10.00	4.47	no
30.2175	93.2681	88-07-26	Ampelisca Abdita	S	4.47	0.00	no
30.2181	93.2742	88-07-26	Ampelisca Abdita	S	91.10	0.00	Yes
30.2186	93.3589	89-04-04	Ampelisca Abdita	S	74.43	1.10	Yes
30.2217	93.2581	88-07-26	Ampelisca Abdita	S	7.77	0.00	no
30.2228	93.3681	89-04-04	Ampelisca Abdita	S	18.90	1.10	no
30.2244	93.2775	88-07-08	Ampelisca Abdita	S	100.00	4.47	Yes
30.2306	93.3272	88-06-22	Ampelisca Abdita	S	98.90	3.30	Yes
30.2311	93.2828	88-07-08	Ampelisca Abdita	S	100.00	4.47	Yes
30.2342	93.2408	88-07-08	Ampelisca Abdita	S	2.23	4.47	no
30.2361	93.2786	88-07-08	Ampelisca Abdita	S	100.00	4.47	Yes
30.2411	93.2881	88-07-08	Ampelisca Abdita	S	98.90	4.47	Yes
30.2422	93.2797	88-07-08	Ampelisca Abdita	S	100.00	4.47	Yes