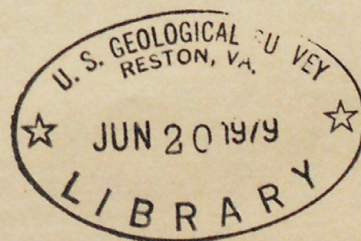


(200)
R290
no. 79-1085

RAW POLLEN COUNTS FROM CORE 7,
CLEAR LAKE, LAKE COUNTY, CA

David P. Adam



(200)

R290

no. 79-1085



✓ UNITED STATES (DEPARTMENT OF THE INTERIOR)
GEOLOGICAL SURVEY

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RAW POLLEN COUNTS FROM CORE 7, CLEAR LAKE,
LAKE COUNTY, CALIFORNIA

by

✓ GS

David P. Adam

Open-File Report
79-1085

This report is preliminary and has not been edited or
reviewed for conformity with Geological Survey standards.

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INTRODUCTION

The U. S. Geological Survey recovered eight sediment cores from beneath Clear Lake, Lake County, California, in 1973. The locations of the core sites are shown in fig. 1; lithologic descriptions of the cores, as well as radiographs, have been given by Sims and Rymer (1975a-g, 1976). A list of the procedures followed in sampling the cores and a list of the samples taken may be found in Beaver and others (1975); fish remains from two of the cores have been studied by Casteel and others (1975, 1977a, 1977b). This report gives raw count data for 72 pollen samples from core 7, a 27.4-m long core from the southern or Highlands Arm of the lake (fig. 1).

Pollen counts for core 4, a 115-m core from the main basin of the lake, are given in Adam (1979); that core spans the time interval between the end of the penultimate glacial period, about 130,000 years ago, and the present.

METHODS AND PROCEDURES

The core was sampled at 10-cm intervals wherever possible. This procedure produced too many samples to make counting all of them feasible, so a 40 centimeter sampling interval was chosen.

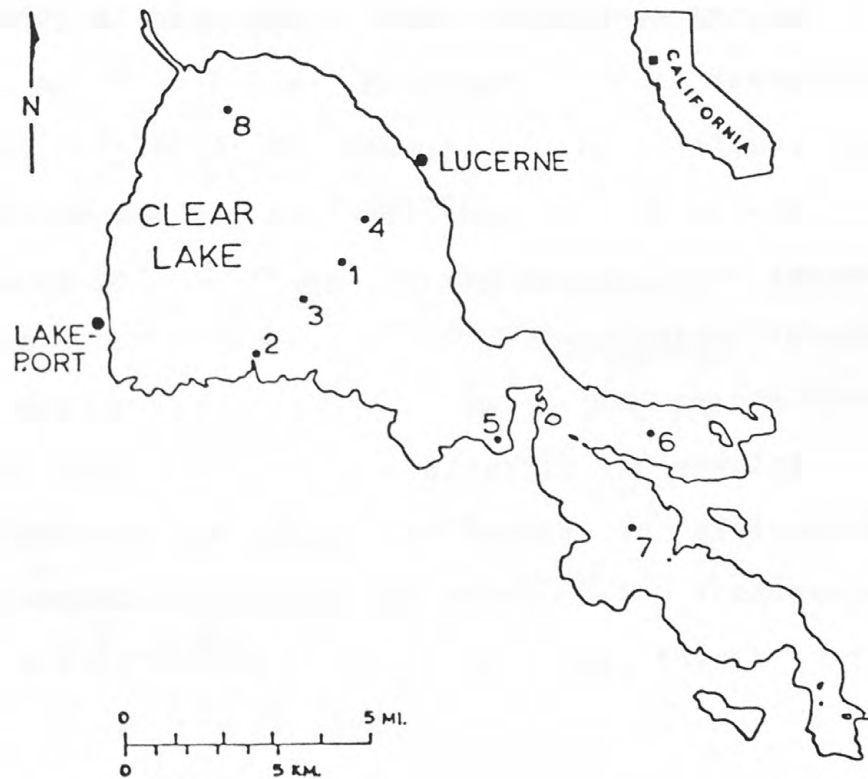


Figure 1.--Map showing location of core 7 in Clear Lake, California. Each numbered dot marks the location of a core; the lithology of each core has been described by Sims and Rymer (1975a-g, 1976). This map is also found in each of those reports. (After Sims and Rymer, 1975f).

Pollen extractions were done in the Laboratory of Anthropology of Washington State University through the courtesy of Dr. P. J. Mehringer, Jr. Extraction procedures included HF digestion, acetylation, and hydroxide treatments, and completed samples were stored in silicone oil. Prior to extraction, four tablets containing approximately 12,500 Eucalyptus grains apiece were added to each sample to permit later estimation of pollen concentrations in the samples.

The purpose of the pollen counts was to efficiently obtain reasonably accurate estimates of the frequencies of the various pollen types encountered, together with estimates of the frequencies of recognizable non-pollen microfossils. In many of the samples, remains of algae (Botryococcus, Coelastrum, and several kinds of Pediastrum) were so abundant that they interfered strongly with the pollen counting.

Several approaches were tried as the magnitude of the algae problem became more apparent and my appetite for counting algae diminished. The first method, used for some core 7 samples, was to count everything until the pollen counts were completed (at least 200 grains of fossil pollen). The next approach was to count each algal type until 100 individuals (or colonies in the case of Pediastrum) were counted, and then to record the number of Eucalyptus tracers together with the

count; further algae of that type were then ignored for the rest of the count (see, for example, sample 106, 0.40 m). The ratio of the number of tracers counted with the algae to the number of tracers counted with the full pollen count could then be used to estimate how many algae would have been counted in the full sum.

The type of stopping criterion used for any particular sample may be determined by examining the "tracer sub-counts" column on the count sheets (Appendix B). These count sheets provide all of the information needed to calculate pollen percentages, as well as pollen concentrations in grains per cm³.

Where no tracer sub-counts are listed on the count sheets, the type in question was counted until the full pollen sum was reached. Where tracer sub-counts are shown, the number of individuals of the type that would have been counted if counting had continued throughout the full pollen sum may be estimated by

$$\hat{n} = \frac{n \cdot t_{\text{full}}}{t_{\text{sc}}}$$

where $\hat{n}$ is the estimated number, t_{full} is the number of tracers counted with the full pollen sum, n is the number of grains actually counted of the type being

Notes on variables

A list of the variables counted is shown in Appendix A. The number preceding each variable name is an identifier used for computer processing. Most types are self-explanatory; a few further explanations are given here.

Pinus: No systematic attempt was made to separate the haploxylon and diploxylon groups among the pines, although haploxylon grains were noted separately when they were obvious. Nearly all pine grains appeared to be of the diploxylon type. Broken pine grains were counted as thirds.

Tsuga: Grains with distinct separate bladders probably represent T. mertensiana, while grains with a continuous saccate fringe probably represent T. heterophylla. Both types are scarce.

TCT: This type includes pollen of the families Taxodiaceae, Cupressaceae, and Taxaceae. A few grains of Sequoia and Chamaecyparis were identified separately; the Chamaecyparis should probably be lumped with the rest of the TCT.

Tilia: These rare grains may represent pollen reworked from older rocks or modern contamination, along with cf. Ilex, cf. Morus, Hedera, and Ailanthus.

Typha: The tetrads represent T. latifolia type, while the monads may represent either T. angustifolia type

or Sparganium. The few dyads probably represent hybridization between T. latifolia type and T. angustifolia type (P. J. Mehringer, Jr., pers. commun., 1970).

Rorippa: Separation of this genus from the rest of the Cruciferae is somewhat doubtful.

Cheno-ams: This group includes the Chenopodiaceae plus the related genus Amaranthus.

Compositae: This family has been separated into four groups: Artemisia and the Liguliflorae are easily distinguished; the high-spine and low-spine Compositae were separated by the shape of the spines, which come to distinct points in the high-spine Compositae but are only rounded bumps in the low-spine Compositae.

cf. Proserpinaca, etc.: All grains with names of cf. x are considered unknowns. The names were attached only as an aid in matching unknowns to published pictures or drawings, and are not identifications. Where cf. x refers to a number, that number is a sample number in which the type was noted.

Pediastrum: Several types of Pediastrum were encountered in great abundance in both cores. These were separated into several forms, which may or may not be taxonomically reasonable. Initial observations indicated that several morphologic

features were useful for separating types, including the number of "horns" per cell, the surface sculpturing, and the presence or absence of holes between adjacent cells. The letters assigned to the different forms are for present purposes arbitrary; "missing" letters have no significance.

The most important types were A, K, N, O, X, and Y. Pediastrum A resembles P. simplex var. duodenarium as shown in Smith (1920), and is larger than most other forms. Pediastrum N is much larger than all the other types, and has a reticulum of triangles on the cell walls; it resembles P. sculptatum of Smith (1920: plate 46, fig. 1). Both Pediastrum O and Pediastrum X probably represent P. boryanum, with O having holes between adjacent cells and X lacking cells; intermediate forms were sometimes present. Pediastrum Y is to me an unknown form, with two long "horns" per cell and each horn having a circular aperture with a slightly thickened rim at its tip; cell walls are smooth and thin, and holes are present between cells. It may be equivalent to P. duplex var. gracillimum as described by Smith (1920: plate 47, figs. 8-11), but it is difficult to tell from Smith's illustrations just how close the match is. It also resembles P. clathratum as shown by Harper (1918:226, and figs. 17 and 18). Pediastrum K

resembles Pediastrum X, but has only a single horn.
Other Pediastrum types were rare, and are not
described here.

Type 102: I have no idea what these are, but there are
lots of them. They resemble TCT and sedge pollen
grains, as well as hystrichosphaerids, but can be
distinguished from these types after one is familiar
with them.

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APPENDIX A

LIST OF VARIABLES

Pinus

- 2 Abies
- 3 Picea
- 4 Pseudotsuga
- 5 Tsuga (bicolor)
- 6 Tsuga (fringed)
- 7 Larch
- 8 Chamaecyparis
- 9 Thuja
- 10 Libocedrus
- 11 Sequoia
- 12 Juniper
- 13 Tilia
- 14 Castanopsis
- 15 Alnus
- 16 Fraxinus
- 17 Shepherdia
- 18 Salix
- 19 Cyperaceae
- 20 Bracken
- 21 Nymphaea
- 22 Typha (bicolor)
- 23 Typha (sparganium) (monod)
- 24 Najas
- 25 Sphagnum
- 26 Potamogeton
- 27 Sagittaria
- 28 Carex
- 29 High-spine Compositae
- 30 Low-spine Compositae
- 31 Liguliflorae
- 32 Artemisia
- 33 Ericaceae
- 34 Gramineae
- 35 Cerealia
- 36 Ranunculaceae
- 37 Scilla
- 38 Ranunculus
- 39 Polygonaceae
- 40 Polygonum californicum
- 41 Ranunculus
- 42 Umbelliferae
- 43 Caryophyllaceae
- 44 Galium
- 45 Leguminosae
- 46 Thalictrum
- 47 Galium
- 48 Geraniaceae
- 49 Ranunculiferae
- 50 Liliaceae
- 51 cf. Fraxiniferae
- 52 cf. pulchra (difficile) (rare)
- 53 cf. liliaceae (rare)

APPENDIX A

LIST OF VARIABLES

- 1 Pinus
- 2 Abies
- 3 Picea
- 4 Pseudotsuga
- 5 Tsuga (bladders)
- 6 Tsuga (fringed)
- 7 TCT
- 8 Chamaecyparis
- 9 Quercus
- 10 Lithocarpus
- 11 Betula
- 12 Juglans
- 13 Tilia
- 14 Castanopsis
- 15 Alnus
- 16 Fraxinus
- 17 Shepherdia
- 18 Salix
- 19 Cyperaceae
- 20 Brasenia
- 21 Myriophyllum
- 22 Typha (tetrads)
- 23 Typha/Sparganium (monads)
- 24 Nuphar
- 25 Rorippa
- 26 Potamogeton
- 27 Sagittaria
- 28 Chenopods
- 29 high-spine Compositae
- 30 low-spine Compositae
- 31 Liguliflorae
- 32 Artemisia
- 33 Ericaceae
- 34 Gramineae
- 35 Cerealia
- 36 Ranunculaceae
- 37 Aconitum
- 38 Rosaceae
- 39 Polygonaceae
- 40 Polygonum californicum
- 41 Rhamnaceae
- 42 Umbelliferae
- 43 Caryophyllaceae
- 44 Galium
- 45 Leguminosae
- 46 Thalictrum
- 47 Gilia
- 48 Geraniaceae
- 49 Cruciferae
- 50 Liliaceae
- 51 cf. Proserpinaca
- 52 4-colpate reticulate unk.
- 53 cf. Tilia, 4 pores

54 4-pored unk., cf. #175
 55 echinate unk., cf. #26
 56 cf. Linum
 57 unknowns
 58 Eucalyptus (tracer)
 59 Nuphar leaf hairs
 60 Botryococcus
 61 Coelastrum
 62 Pediasium A
 63 Pediasium N
 64 Pediasium O
 65 Pediasium X
 66 Pediasium Y
 67 Hystrichosphaerids
 68 Nuphar sclereids
 69 monosulcate, botryoidal spore
 70 trilete spores
 71 Dryopteris-type
 72 large, fringed trilete spore
 73 cf. Pedicularis
 74 Pediasium Z
 75 Isoetes
 76 Sequoia
 77 Corylus
 78 Arceuthobium
 79 cf. Ilex
 80 Labiatae
 81 Convulvulaceae
 82 cf. Morus
 83 Pediasium AA
 84 Spirogyra zygospores
 85 Pediasium BB
 86 Menyanthes
 87 Utricularia
 88 Eriogonum
 89 Sarcobatus
 90 Violaceae
 91 Rumex
 92 Sambucus
 93 unk. cf. Artemisia
 94 Pediasium CC
 95 Campanulaceae
 96 Nymphaea (cf. Kapp)
 97 unk. cf. prolate Aconitum
 98 Primulaceae
 99 Hedera
 100 Lycopodium (tracer; not used for core 7)
 101 Pediasium K
 102 large, strange TCT/sedge, cf. #1432
 103 Portulacaceae
 104 cf. Acer negundo
 105 cf. Dodecatheon
 106 tendipedid tails

- 107 Cryptogamma type
- 108 cf. Fremontia
- 109 Onagraceae
- 110 Azolla massulae
- 111 strange, non-staining frilly cyst
- 112 Polygonum, persicaria-type
- 113 Ailanthus
- 114 Rubiaceae
- 115 Typha dyads
- 116 cf. #102, but striate
- 117 Saxifragaceae
- 118 Castanea
- 119 Malvaceae
- 120 cf. Prunus
- 121 Ephedra, nevadensis-type

APPENDIX B

COUNT SHEETS

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 102

Sample depth = 0.000 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	47	
4	Pseudotsuga	2	
7	TCT	14	
9	Quercus	78	
12	Juglans	2	
14	Castanopsis	1	
15	Alnus	3	
16	Fraxinus	1	
17	Shepherdia	1	
18	Salix	2	
	Sub-total:	151	
Aquatic pollen:			
19	Cyperaceae	4	
21	Myriophyllum	1	
	Sub-total:	5	
Herbs and shrubs:			
28	Cheno-ams	3	
29	High-spine Compositae	4	
31	Liguliflorae	2	
32	Artemisia	1	
33	Ericaceae	1	
34	Gramineae	10	
35	Cerealia	1	
37	Aconitum	2	
38	Rosaceae	3	
39	Polygonaceae	1	
41	Rhamnaceae	6	
	Sub-total:	34	
Other pollen:			
13	cf. Tilia	1	
57	unknowns	15	
	Sub-total:	16	
	Total pollen:	206	
Other microfossils:			
59	Nuphar leaf hairs	1	
60	Botryococcus	102	
61	Coelastrum	32	
62	Pediastrum A	35	
63	Pediastrum N	13	
64	Pediastrum O	123	
65	Pediastrum X	53	
66	Pediastrum Y	13	
67	Hystriosphaeerids	2	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	184	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 106

Sample depth = 0.400 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	35	
2	Abies	1	
7	TCT	20	
9	Quercus	80	
14	Castanopsis	3	
15	Alnus	5	
16	Fraxinus	1	
18	Salix	4	
77	Corylus	3	
78	Arceuthobium	1	
	Sub-total:	153	
Aquatic pollen:			
19	Cyperaceae	3	
25	Rorippa	2	
26	Potamogeton	1	
75	Isoetes	2	
	Sub-total:	8	
Herbs and shrubs:			
28	Cheno-ams	1	
29	High-spine Compositae	3	
30	Low-spine Compositae	1	
31	Liguliflorae	1	
32	Artemisia	1	
33	Ericaceae	1	
34	Gramineae	3	
41	Rhamnaceae	20	
42	Umbelliferae	1	
44	Galium	1	
46	Thalictrum	1	
49	Cruciferae	1	
80	Labiatae	1	
	Sub-total:	36	
Other pollen:			
52	4-colpate reticulate unk.	1	
57	unknowns	11	
79	cf. Ilex	1	
	Sub-total:	13	
	Total pollen:	210	
Other microfossils:			
60	Botryococcus	100	56
61	Coelastrum	100	58
62	Pediastrum A	66	
63	Pediastrum N	16	
64	Pediastrum O	100	20
65	Pediastrum X	100	166
66	Pediastrum Y	54	
67	Hystriosphaeirids	10	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	182	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 109

Sample depth = 0.800 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	32	
3	Picea	1	
7	TCT	22	
9	Quercus	90	
14	Castanopsis	7	
15	Alnus	5	
16	Fraxinus	3	
18	Salix	3	
	Sub-total:	163	
Aquatic pollen:			
19	Cyperaceae	8	
23	Typha/Sparganium (monads)	2	
	Sub-total:	10	
Herbs and shrubs:			
29	High-spine Compositae	2	
34	Gramineae	1	
38	Rosaceae	1	
41	Rhamnaceae	8	
	Sub-total:	12	
Other pollen:			
57	unknowns	14	
	Sub-total:	14	
	Total pollen:	199	
Other microfossils:			
59	Nuphar leaf hairs	2	
60	Botryococcus	234	
61	Coelastrum	236	
62	Pediastrum A	63	
63	Pediastrum N	21	
64	Pediastrum O	615	
65	Pediastrum X	113	
66	Pediastrum Y	92	
67	Hystriosphaeerids	15	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	102	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 113

Sample depth = 1.200 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	29	
4	Pseudotsuga	1	
7	TCT	27	
9	Quercus	82	
10	Lithocarpus	1	
14	Castanopsis	3	
15	Alnus	7	
18	Salix	2	
	Sub-total:	152	
Aquatic pollen:			
19	Cyperaceae	7	
22	Typha (tetrads)	2	
	Sub-total:	9	
Herbs and shrubs:			
29	High-spine Compositae	4	
31	Liguliflorae	1	
34	Gramineae	3	
37	Aconitum	1	
38	Rosaceae	4	
41	Rhamnaceae	19	
48	Geraniaceae	1	
49	Cruciferae	1	
	Sub-total:	34	
Other pollen:			
57	unknowns	12	
	Sub-total:	12	
	Total pollen:	207	
Other microfossils:			
60	Botryococcus	180	
61	Coelastrum	74	
62	Pediastrum A	56	
63	Pediastrum N	29	
64	Pediastrum O	240	
65	Pediastrum X	74	
66	Pediastrum Y	5	
67	Hystriosphaeerids	7	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	103	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 117

Sample depth = 1.600 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	32	
2	Abies	1	
7	TCT	25	
9	Quercus	90	
10	Lithocarpus	2	
14	Castanopsis	3	
15	Alnus	3	
16	Fraxinus	1	
	Sub-total:	157	
Aquatic pollen:			
19	Cyperaceae	3	
22	Typha (tetrads)	2	
23	Typha/Sparganium (monads)	1	
25	Rorippa	2	
	Sub-total:	8	
Herbs and shrubs:			
28	Cheno-ams	1	
29	High-spine Compositae	1	
30	Low-spine Compositae	5	
33	Ericaceae	1	
34	Gramineae	3	
41	Rhamnaceae	17	
88	Eriogonum	1	
	Sub-total:	29	
Other pollen:			
57	unknowns	11	
82	cf. Morus	1	
	Sub-total:	12	
	Total pollen:	206	
Other microfossils:			
60	Botryococcus	100	21
61	Coelastrum	100	21
62	Pediastrum A	79	
63	Pediastrum N	67	
64	Pediastrum O	100	8
65	Pediastrum X	100	24
66	Pediastrum Y	100	63
67	Hystriosphaeerids	18	
70	Trilete spores	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	91	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 121

Sample depth = 2.000 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	27	
2	Abies	1	
7	TCT	16	
9	Quercus	88	
14	Castanopsis	7	
15	Alnus	4	
18	Salix	4	
77	Corylus	1	
	Sub-total:	148	
Aquatic pollen:			
19	Cyperaceae	6	
22	Typha (tetrads)	1	
25	Rorippa	2	
26	Potamogeton	2	
	Sub-total:	11	
Herbs and shrubs:			
29	High-spine Compositae	5	
32	Artemisia	1	
34	Gramineae	3	
36	Ranunculaceae	1	
41	Rhamnaceae	20	
42	Umbelliferae	1	
45	Leguminosae	1	
81	Convulvulaceae	1	
	Sub-total:	33	
Other pollen:			
52	4-colpate reticulate unk.	3	
57	unknowns	12	
82	cf. Morus	1	
	Sub-total:	16	
	Total pollen:	208	
Other microfossils:			
60	Botryococcus	100	41
61	Coelastrum	100	23
62	Pediastrum A	10	
63	Pediastrum N	30	
64	Pediastrum O	100	15
65	Pediastrum X	68	
66	Pediastrum Y	100	64
67	Hystriochosphaerids	14	
70	Trilete spores	1	
71	Dryopteris-type	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	120	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 124

Sample depth = 2.400 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	22	
4	Pseudotsuga	1	
7	TCT	20	
9	Quercus	106	
14	Castanopsis	3	
15	Alnus	3	
18	Salix	2	
	Sub-total:	157	
Aquatic pollen:			
19	Cyperaceae	4	
23	Typha/Sparganium (monads)	1	
25	Rorippa	2	
	Sub-total:	7	
Herbs and shrubs:			
29	High-spine Compositae	6	
32	Artemisia	1	
34	Gramineae	5	
41	Rhamnaceae	16	
48	Geraniaceae	1	
50	Liliaceae	1	
	Sub-total:	30	
Other pollen:			
52	4-colpate reticulate unk.	1	
57	unknowns	11	
	Sub-total:	12	
	Total pollen:	206	
Other microfossils:			
60	Botryococcus	100	106
61	Coelastrum	44	
63	Pediastrum N	20	
64	Pediastrum O	100	51
65	Pediastrum X	100	118
66	Pediastrum Y	23	
67	Hystriosphaeerids	11	
70	Trilete spores	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	131	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 132

Sample depth = 3.200 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	23	
2	Abies	1	
7	TCT	11	
9	Quercus	96	
14	Castanopsis	6	
15	Alnus	7	
18	Salix	5	
77	Corylus	1	
	Sub-total:	150	
Aquatic pollen:			
19	Cyperaceae	4	
22	Typha (tetrads)	1	
25	Rorippa	1	
	Sub-total:	6	
Herbs and shrubs:			
29	High-spine Compositae	5	
31	Liguliflorae	1	
32	Artemisia	1	
34	Gramineae	4	
38	Rosaceae	1	
41	Rhamnaceae	13	
49	Cruciferae	1	
	Sub-total:	26	
Other pollen:			
57	unknowns	18	
	Sub-total:	18	
	Total pollen:	200	
Other microfossils:			
59	Nuphar leaf hairs	2	
60	Botryococcus	100	97
61	Coelastrum	27	
63	Pediastrum N	10	
64	Pediastrum O	100	101
65	Pediastrum X	61	
66	Pediastrum Y	8	
67	Hystriochosphaerids	4	
70	Trilete spores	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	148	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 140

Sample depth = 4.000 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	22	
2	Abies	1	
7	TCT	17	
9	Quercus	94	
10	Lithocarpus	2	
12	Juglans	1	
15	Alnus	5	
17	Shepherdia	1	
76	Sequoia	1	
	Sub-total:	144	
Aquatic pollen:			
22	Typha (tetrads)	1	
23	Typha/Sparganium (monads)	2	
25	Rorippa	2	
26	Potamogeton	1	
	Sub-total:	6	
Herbs and shrubs:			
29	High-spine Compositae	10	
32	Artemisia	2	
33	Ericaceae	1	
34	Gramineae	8	
38	Rosaceae	1	
41	Rhamnaceae	11	
80	Labiatae	1	
	Sub-total:	34	
Other pollen:			
55	echinate unk., cf. #26	1	
57	unknowns	10	
97	unk. cf. prolate Aconitum	2	
	Sub-total:	13	
	Total pollen:	197	
Other microfossils:			
60	Botryococcus	100	55
61	Coelastrum	100	26
62	Pediastrum A	1	
63	Pediastrum N	1	
64	Pediastrum O	100	6
65	Pediastrum X	39	
66	Pediastrum Y	27	
67	Hystriochosphaerids	15	
70	Trilete spores	1	
71	Dryopteris-type	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	81	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 144

Sample depth = 4.400 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	27	
4	Pseudotsuga	2	
7	TCT	15	
9	Quercus	85	
12	Juglans	1	
14	Castanopsis	3	
15	Alnus	3	
17	Shepherdia	1	
	Sub-total:	137	
Aquatic pollen:			
19	Cyperaceae	16	
22	Typha (tetrads)	1	
25	Rorippa	2	
26	Potamogeton	1	
	Sub-total:	20	
Herbs and shrubs:			
28	Cheno-ams	2	
29	High-spine Compositae	7	
31	Liguliflorae	1	
34	Gramineae	6	
38	Rosaceae	1	
41	Rhamnaceae	16	
	Sub-total:	33	
Other pollen:			
57	unknowns	21	
	Sub-total:	21	
	Total pollen:	211	
Other microfossils:			
59	Nuphar leaf hairs	6	
60	Botryococcus	100	105
61	Coelastrum	100	67
62	Pediastrum A	1	
63	Pediastrum N	2	
64	Pediastrum O	100	71
65	Pediastrum X	83	
66	Pediastrum Y	23	
67	Hystriochosphaerids	13	
70	Trilete spores	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	131	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 148

Sample depth = 4.800 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	34	
7	TCT	20	
9	Quercus	87	
10	Lithocarpus	5	
15	Alnus	5	
18	Salix	5	
	Sub-total:	156	
Aquatic pollen:			
19	Cyperaceae	5	
25	Rorippa	2	
26	Potamogeton	2	
	Sub-total:	9	
Herbs and shrubs:			
28	Cheno-ams	3	
29	High-spine Compositae	6	
34	Gramineae	6	
41	Rhamnaceae	1	
88	Eriogonum	1	
	Sub-total:	17	
Other pollen:			
52	4-colpate reticulate unk.	1	
55	echinate unk., cf. #26	1	
57	unknowns	16	
	Sub-total:	18	
	Total pollen:	200	
Other microfossils:			
59	Nuphar leaf hairs	5	
60	Botryococcus	50	
61	Coelastrum	100	45
63	Pediastrum N	5	
64	Pediastrum O	100	96
65	Pediastrum X	33	
66	Pediastrum Y	30	
67	Hystriosphaeerids	22	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	170	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 156

Sample depth = 5.600 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	36	
2	Abies	1	
4	Pseudotsuga	1	
7	TCT	25	
9	Quercus	72	
14	Castanopsis	2	
15	Alnus	5	
18	Salix	1	
77	Corylus	1	
78	Arceuthobium	1	
	Sub-total:	145	
Aquatic pollen:			
19	Cyperaceae	11	
22	Typha (tetrads)	2	
24	Nuphar	2	
25	Rorippa	6	
26	Potamogeton	1	
	Sub-total:	22	
Herbs and shrubs:			
29	High-spine Compositae	8	
31	Liguliflorae	1	
32	Artemisia	1	
34	Gramineae	6	
38	Rosaceae	2	
39	Polygonaceae	1	
41	Rhamnaceae	4	
42	Umbelliferae	1	
	Sub-total:	24	
Other pollen:			
57	unknowns	17	
	Sub-total:	17	
	Total pollen:	208	
Other microfossils:			
59	Nuphar leaf hairs	10	
60	Botryococcus	38	
61	Coelastrum	100	101
62	Pediastrum A	13	
63	Pediastrum N	7	
64	Pediastrum O	100	45
65	Pediastrum X	100	42
66	Pediastrum Y	28	
67	Hystrichosphaerids	60	
70	Trilete spores	1	
74	Pediastrum, type Z	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	171	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 160

Sample depth = 6.000 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	37	
3	Picea	1	
7	TCT	24	
9	Quercus	88	
15	Alnus	2	
18	Salix	3	
76	Sequoia	1	
	Sub-total:	156	
Aquatic pollen:			
19	Cyperaceae	19	
20	Brasenia	3	
22	Typha (tetrads)	5	
26	Potamogeton	5	
	Sub-total:	32	
Herbs and shrubs:			
28	Cheno-ams	3	
29	High-spine Compositae	4	
31	Liguliflorae	2	
32	Artemisia	1	
34	Gramineae	3	
44	Galium	1	
47	Gilia	1	
	Sub-total:	15	
Other pollen:			
13	cf. Tilia	1	
52	4-colpate reticulate unk.	2	
57	unknowns	15	
	Sub-total:	18	
	Total pollen:	221	
Other microfossils:			
59	Nuphar leaf hairs	4	
60	Botryococcus	39	
61	Coelastrum	100	106
62	Pediastrum A	8	
63	Pediastrum N	19	
64	Pediastrum O	100	97
65	Pediastrum X	100	87
66	Pediastrum Y	43	
67	Hystriosphaeerids	27	
70	Trilete spores	2	
71	Dryopteris-type	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	180	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 163

Sample depth = 6.400 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	27	
7	TCT	19	
9	Quercus	81	
11	Betula	1	
14	Castanopsis	1	
15	Alnus	3	
18	Salix	2	
	Sub-total:	134	
Aquatic pollen:			
19	Cyperaceae	15	
23	Typha/Sparganium (monads)	2	
26	Potamogeton	14	
75	Isoetes	1	
	Sub-total:	32	
Herbs and shrubs:			
28	Cheno-ams	7	
29	High-spine Compositae	11	
30	Low-spine Compositae	3	
32	Artemisia	1	
34	Gramineae	4	
38	Rosaceae	1	
39	Polygonaceae	1	
41	Rhamnaceae	2	
42	Umbelliferae	1	
45	Leguminosae	1	
46	Thalictrum	1	
49	Cruciferae	1	
50	Liliaceae	1	
	Sub-total:	35	
Other pollen:			
57	unknowns	10	
	Sub-total:	10	
	Total pollen:	211	
Other microfossils:			
60	Botryococcus	13	
61	Coelastrum	56	
62	Pediastrum A	82	
63	Pediastrum N	42	
64	Pediastrum O	21	
65	Pediastrum X	100	35
66	Pediastrum Y	8	
67	Hystriosphaeerids	22	
70	Trilete spores	2	
74	Pediastrum, type Z	100	110
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	248	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 167

Sample depth = 6.800 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	52	
2	Abies	2	
7	TCT	23	
8	Chamaecyparis	1	
9	Quercus	69	
11	Betula	3	
14	Castanopsis	2	
15	Alnus	6	
16	Fraxinus	1	
18	Salix	2	
	Sub-total:	161	
Aquatic pollen:			
19	Cyperaceae	27	
22	Typha (tetrads)	3	
	Sub-total:	30	
Herbs and shrubs:			
28	Cheno-ams	7	
29	High-spine Compositae	4	
32	Artemisia	2	
34	Gramineae	2	
38	Rosaceae	4	
42	Umbelliferae	1	
	Sub-total:	20	
Other pollen:			
52	4-colpate reticulate unk.	1	
57	unknowns	5	
73	cf. Pedicularis	1	
	Sub-total:	7	
	Total pollen:	218	
Other microfossils:			
59	Nuphar leaf hairs	10	
60	Botryococcus	3	
62	Pediastrum A	98	
63	Pediastrum N	100	46
64	Pediastrum O	4	
65	Pediastrum X	100	11
66	Pediastrum Y	4	
67	Hystriochosphaerids	2	
70	Trilete spores	3	
71	Dryopteris-type	1	
74	Pediastrum, type Z	9	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	62	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 171

Sample depth = 7.200 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	53	
2	Abies	3	
3	Picea	1	
7	TCT	36	
8	Chamaecyparis	1	
9	Quercus	43	
14	Castanopsis	1	
15	Alnus	2	
18	Salix	2	
	Sub-total:	142	
Aquatic pollen:			
19	Cyperaceae	23	
20	Brasenia	5	
22	Typha (tetrads)	2	
23	Typha/Sparganium (monads)	1	
24	Nuphar	2	
	Sub-total:	33	
Herbs and shrubs:			
28	Cheno-ams	3	
34	Gramineae	1	
38	Rosaceae	3	
41	Rhamnaceae	2	
42	Umbelliferae	2	
44	Galium	1	
45	Leguminosae	3	
	Sub-total:	15	
Other pollen:			
52	4-colpate reticulate unk.	5	
57	unknowns	7	
	Sub-total:	12	
	Total pollen:	202	
Other microfossils:			
59	Nuphar leaf hairs	100	105
60	Botryococcus	5	
62	Pediastrum A	11	
63	Pediastrum N	100	24
64	Pediastrum O	100	82
65	Pediastrum X	127	14
66	Pediastrum Y	100	114
67	Hystriosphaeirids	1	
68	Nuphar sclereids	1	
70	Trilete spores	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	156	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 175

Sample depth = 7.700 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	33	
2	Abies	1	
3	Picea	2	
4	Pseudotsuga	3	
7	TCT	22	
9	Quercus	27	
11	Betula	1	
16	Fraxinus	1	
	Sub-total:	90	
Aquatic pollen:			
19	Cyperaceae	28	
20	Brasenia	47	
22	Typha (tetrads)	1	
24	Nuphar	2	
25	Rorippa	1	
	Sub-total:	79	
Herbs and shrubs:			
28	Cheno-ams	1	
29	High-spine Compositae	2	
30	Low-spine Compositae	2	
34	Gramineae	2	
36	Ranunculaceae	1	
41	Rhamnaceae	3	
50	Liliaceae	4	
51	cf. Proserpinaca	1	
	Sub-total:	16	
Other pollen:			
13	cf. Tilia	1	
54	4-pored unk., cf. #175	11	
57	unknowns	5	
	Sub-total:	17	
	Total pollen:	202	
Other microfossils:			
59	Nuphar leaf hairs	623	50
60	Botryococcus	3	
62	Pediastrum A	10	
63	Pediastrum N	4	
64	Pediastrum O	5	
65	Pediastrum X	32	
66	Pediastrum Y	1	
67	Hystrichosphaerids	1	
68	Nuphar sclereids	6	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	165	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 179

Sample depth = 8.100 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	20	
3	Picea	2	
7	TCT	22	
9	Quercus	27	
15	Alnus	2	
16	Fraxinus	1	
	Sub-total:	74	
Aquatic pollen:			
19	Cyperaceae	23	
20	Brasenia	89	
22	Typha (tetrads)	1	
24	Nuphar	4	
26	Potamogeton	4	
	Sub-total:	121	
Herbs and shrubs:			
29	High-spine Compositae	1	
41	Rhamnaceae	1	
	Sub-total:	2	
Other pollen:			
52	4-colpate reticulate unk.	2	
53	cf. Tilia, 4 pores	2	
54	4-pored unk., cf. #175	1	
55	echinate unk., cf. #26	1	
57	unknowns	7	
	Sub-total:	13	
	Total pollen:	210	
Other microfossils:			
59	Nuphar leaf hairs	430	50
62	Pediastrum A	17	
63	Pediastrum N	6	
64	Pediastrum O	19	
65	Pediastrum X	155	
66	Pediastrum Y	21	
67	Hystriochosphaerids	1	
68	Nuphar sclereids	6	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	105	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 182

Sample depth = 8.450 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	49	
7	TCT	22	
9	Quercus	21	
16	Fraxinus	1	
	Sub-total:	93	
Aquatic pollen:			
19	Cyperaceae	4	
20	Brasenia	82	
24	Nuphar	4	
26	Potamogeton	2	
	Sub-total:	92	
Herbs and shrubs:			
28	Cheno-ams	1	
29	High-spine Compositae	2	
34	Gramineae	1	
41	Rhamnaceae	1	
	Sub-total:	5	
Other pollen:			
52	4-colpate reticulate unk.	9	
57	unknowns	2	
	Sub-total:	11	
	Total pollen:	201	
Other microfossils:			
59	Nuphar leaf hairs	281	17
60	Botryococcus	3	
62	Pediastrum A	1	
63	Pediastrum N	3	
64	Pediastrum O	1	
65	Pediastrum X	11	
66	Pediastrum Y	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	81	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 183

Sample depth = 8.600 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	92	
2	Abies	1	
3	Picea	4	
4	Pseudotsuga	2	
5	Tsuga (bladders)	1	
7	TCT	41	
9	Quercus	14	
15	Alnus	1	
18	Salix	2	
	Sub-total:	158	
Aquatic pollen:			
19	Cyperaceae	17	
23	Typha/Sparganium (monads)	1	
24	Nuphar	3	
25	Rorippa	1	
26	Potamogeton	1	
27	Sagittaria	1	
	Sub-total:	24	
Herbs and shrubs:			
29	High-spine Compositae	2	
32	Artemisia	1	
33	Ericaceae	1	
42	Umbelliferae	2	
44	Galium	1	
	Sub-total:	7	
Other pollen:			
52	4-colpate reticulate unk.	8	
57	unknowns	4	
	Sub-total:	12	
	Total pollen:	201	
Other microfossils:			
59	Nuphar leaf hairs	256	50
68	Nuphar sclereids	18	
69	Monosulcate, botryoidal spore	1	
70	Trilete spores	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	177	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 185

Sample depth = 8.800 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	85	
4	Pseudotsuga	1	
6	Tsuga (fringed)	1	
7	TCT	41	
9	Quercus	24	
15	Alnus	4	
	Sub-total:	156	
Aquatic pollen:			
19	Cyperaceae	18	
24	Nuphar	6	
26	Potamogeton	7	
87	Utricularia	1	
	Sub-total:	32	
Herbs and shrubs:			
29	High-spine Compositae	3	
32	Artemisia	2	
41	Rhamnaceae	2	
42	Umbelliferae	3	
	Sub-total:	10	
Other pollen:			
52	4-colpate reticulate unk.	3	
57	unknowns	7	
	Sub-total:	10	
	Total pollen:	208	
Other microfossils:			
59	Nuphar leaf hairs	100	14
60	Botryococcus	1	
62	Pediastrum A	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	199	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 187

Sample depth = 9.000 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	54	
2	Abies	1	
4	Pseudotsuga	1	
7	TCT	29	
9	Quercus	17	
15	Alnus	1	
18	Salix	1	
	Sub-total:	104	
Aquatic pollen:			
19	Cyperaceae	13	
20	Brasenia	68	
24	Nuphar	1	
26	Potamogeton	2	
	Sub-total:	84	
Herbs and shrubs:			
28	Cheno-ams	1	
34	Gramineae	1	
41	Rhamnaceae	1	
43	Caryophyllaceae	1	
50	Liliaceae	1	
	Sub-total:	5	
Other pollen:			
13	cf. Tilia	1	
52	4-colpate reticulate unk.	6	
57	unknowns	7	
	Sub-total:	14	
	Total pollen:	207	
Other microfossils:			
59	Nuphar leaf hairs	497	50
63	Pediastrum N	2	
65	Pediastrum X	4	
68	Nuphar sclereids	14	
71	Dryopteris-type	2	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	111	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 189

Sample depth = 9.240 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	58	
2	Abies	2	
6	Tsuga (fringed)	1	
7	TCT	40	
9	Quercus	9	
	Sub-total:	110	
Aquatic pollen:			
19	Cyperaceae	44	
20	Brasenia	13	
21	Myriophyllum	2	
22	Typha (tetrads)	5	
23	Typha/Sparganium (monads)	1	
24	Nuphar	5	
26	Potamogeton	1	
	Sub-total:	71	
Herbs and shrubs:			
28	Cheno-ams	1	
32	Artemisia	2	
34	Gramineae	5	
41	Rhamnaceae	1	
42	Umbelliferae	1	
44	Galium	1	
80	Labiatae	1	
	Sub-total:	12	
Other pollen:			
13	cf. Tilia	2	
54	4-pored unk., cf. #175	2	
55	echinate unk., cf. #26	2	
57	unknowns	5	
	Sub-total:	11	
	Total pollen:	204	
Other microfossils:			
59	Nuphar leaf hairs	100	26
60	Botryococcus	6	
65	Pediastrum X	1	
71	Dryopteris-type	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	116	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 191

Sample depth = 9.400 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	63	
2	Abies	2	
3	Picea	3	
7	TCT	31	
9	Quercus	4	
18	Salix	7	
	Sub-total:	110	
Aquatic pollen:			
19	Cyperaceae	51	
22	Typha (tetrads)	3	
24	Nuphar	2	
26	Potamogeton	1	
	Sub-total:	57	
Herbs and shrubs:			
28	Cheno-ams	4	
29	High-spine Compositae	3	
32	Artemisia	4	
34	Gramineae	1	
40	Polygonum californicum	1	
42	Umbelliferae	6	
	Sub-total:	19	
Other pollen:			
52	4-colpate reticulate unk.	2	
55	echinate unk., cf. #26	3	
56	cf. Linum	1	
57	unknowns	7	
	Sub-total:	13	
	Total pollen:	199	
Other microfossils:			
59	Nuphar leaf hairs	200	94
60	Botryococcus	1	
65	Pediastrum X	2	
72	Large, fringed trilete spore	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	113	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 195

Sample depth = 9.800 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	35	
7	TCT	42	
8	Chamaecyparis	7	
9	Quercus	2	
14	Castanopsis	1	
15	Alnus	1	
18	Salix	1	
	Sub-total:	89	
Aquatic pollen:			
19	Cyperaceae	90	
20	Brasenia	1	
22	Typha (tetrads)	2	
26	Potamogeton	1	
	Sub-total:	94	
Herbs and shrubs:			
29	High-spine Compositae	3	
32	Artemisia	3	
39	Polygonaceae	2	
42	Umbelliferae	22	
	Sub-total:	30	
Other pollen:			
57	unknowns	1	
	Sub-total:	1	
	Total pollen:	214	
Other microfossils:			
71	Dryopteris-type	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	119	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 197

Sample depth = 10.200 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	42	
2	Abies	4	
6	Tsuga (fringed)	2	
7	TCT	14	
10	Lithocarpus	8	
	Sub-total:	70	
Aquatic pollen:			
19	Cyperaceae	104	
22	Typha (tetrads)	1	
	Sub-total:	105	
Herbs and shrubs:			
29	High-spine Compositae	2	
32	Artemisia	9	
34	Gramineae	1	
42	Umbelliferae	9	
45	Leguminosae	1	
46	Thalictrum	1	
47	Gilia	1	
	Sub-total:	24	
Other pollen:			
57	unknowns	6	
	Sub-total:	6	
	Total pollen:	205	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	79	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 201

Sample depth = 10.600 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	73	
2	Abies	5	
3	Picea	3	
7	TCT	19	
9	Quercus	1	
	Sub-total:	101	
Aquatic pollen:			
19	Cyperaceae	75	
22	Typha (tetrads)	5	
	Sub-total:	80	
Herbs and shrubs:			
32	Artemisia	5	
34	Gramineae	1	
39	Polygonaceae	3	
42	Umbelliferae	1	
	Sub-total:	10	
Other pollen:			
57	unknowns	19	
	Sub-total:	19	
	Total pollen:	210	
Other microfossils:			
60	Botryococcus	2	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	68	

Clear Lake, Lake County, California, Core 7
 Raw pollen count data for sample 26

Sample depth = 11.000 meters
 Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	26	
2	Abies	1	
7	TCT	30	
10	Lithocarpus	1	
	Sub-total:	58	
Aquatic pollen:			
19	Cyperaceae	106	
22	Typha (tetrads)	37	
	Sub-total:	143	
Herbs and shrubs:			
32	Artemisia	3	
41	Rhamnaceae	1	
42	Umbelliferae	10	
	Sub-total:	14	
Other pollen:			
55	echinate unk., cf. #26	15	
57	unknowns	3	
	Sub-total:	18	
	Total pollen:	233	
Other microfossils:			
60	Botryococcus	2	
63	Pediastrum N	1	
65	Pediastrum X	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	57	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 30

Sample depth = 11.400 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	60	
2	Abies	3	
3	Picea	1	
7	TCT	36	
8	Chamaecyparis	1	
78	Arceuthobium	1	
	Sub-total:	102	
Aquatic pollen:			
19	Cyperaceae	73	
26	Potamogeton	1	
	Sub-total:	74	
Herbs and shrubs:			
32	Artemisia	11	
42	Umbelliferae	7	
45	Leguminosae	1	
	Sub-total:	19	
Other pollen:			
55	echinate unk., cf. #26	8	
	Sub-total:	8	
	Total pollen:	203	
Other microfossils:			
59	Nuphar leaf hairs	14	
60	Botryococcus	6	
63	Pediastrum N	1	
65	Pediastrum X	2	
85	Pediastrum BB	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	53	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 34

Sample depth = 11.800 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	58	
2	Abies	5	
3	Picea	1	
4	Pseudotsuga	1	
7	TCT	51	
8	Chamaecyparis	1	
9	Quercus	2	
	Sub-total:	119	
Aquatic pollen:			
19	Cyperaceae	88	
23	Typha/Sparganium (monads)	1	
	Sub-total:	89	
Herbs and shrubs:			
29	High-spine Compositae	4	
32	Artemisia	7	
42	Umbelliferae	14	
45	Leguminosae	1	
	Sub-total:	26	
Other pollen:			
57	unknowns	3	
	Sub-total:	3	
	Total pollen:	237	
Other microfossils:			
60	Botryococcus	2	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	48	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 38

Sample depth = 12.200 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	40	
2	Abies	1	
5	Tsuga (bladders)	5	
7	TCT	39	
8	Chamaecyparis	2	
	Sub-total:	87	
Aquatic pollen:			
19	Cyperaceae	109	
23	Typha/Sparganium (monads)	1	
	Sub-total:	110	
Herbs and shrubs:			
28	Cheno-ams	2	
29	High-spine Compositae	3	
32	Artemisia	6	
34	Gramineae	1	
42	Umbelliferae	6	
50	Liliaceae	1	
	Sub-total:	19	
Other pollen:			
57	unknowns	6	
	Sub-total:	6	
	Total pollen:	222	
Other microfossils:			
60	Botryococcus	1	
66	Pediastrum Y	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	22	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 43

Sample depth = 12.600 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	62	
2	Abies	4	
3	Picea	1	
4	Pseudotsuga	3	
5	Tsuga (bladders)	1	
7	TCT	55	
8	Chamaecyparis	1	
	Sub-total:	127	
Aquatic pollen:			
19	Cyperaceae	67	
26	Potamogeton	1	
	Sub-total:	68	
Herbs and shrubs:			
32	Artemisia	7	
34	Gramineae	1	
36	Ranunculaceae	1	
	Sub-total:	9	
Other pollen:			
57	unknowns	2	
	Sub-total:	2	
	Total pollen:	206	
Other microfossils:			
60	Botryococcus	6	
83	Pediastrum AA	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	62	

Clear Lake, Lake County, California, Core 7
 Raw pollen count data for sample 49

Sample depth = 13.120 meters
 Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	40	
2	Abies	3	
4	Pseudotsuga	1	
5	Tsuga (bladders)	1	
7	TCT	61	
	Sub-total:	106	
Aquatic pollen:			
19	Cyperaceae	89	
	Sub-total:	89	
Herbs and shrubs:			
29	High-spine Compositae	3	
32	Artemisia	5	
34	Gramineae	11	
41	Rhamnaceae	1	
42	Umbelliferae	1	
	Sub-total:	21	
Other pollen:			
57	unknowns	1	
	Sub-total:	1	
	Total pollen:	217	
Other microfossils:			
60	Botryococcus	2	
65	Pediastrum X	1	
94	Pediastrum CC	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	52	

Clear Lake, Lake County, California, Core 7
 Raw pollen count data for sample 50

Sample depth = 13.200 meters
 Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	60	
2	Abies	4	
7	TCT	49	
	Sub-total:	113	
Aquatic pollen:			
19	Cyperaceae	70	
	Sub-total:	70	
Herbs and shrubs:			
29	High-spine Compositae	3	
32	Artemisia	15	
42	Umbelliferae	2	
	Sub-total:	20	
Other pollen:			
57	unknowns	7	
	Sub-total:	7	
	Total pollen:	210	
Other microfossils:			
59	Nuphar leaf hairs	13	
60	Botryococcus	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	103	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 52

Sample depth = 13.400 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	62	
2	Abies	1	
3	Picea	2	
7	TCT	74	
9	Quercus	1	
10	Lithocarpus	3	
14	Castanopsis	1	
	Sub-total:	144	
Aquatic pollen:			
19	Cyperaceae	54	
	Sub-total:	54	
Herbs and shrubs:			
31	Liguliflorae	1	
32	Artemisia	13	
34	Gramineae	2	
42	Umbelliferae	6	
49	Cruciferae	1	
	Sub-total:	23	
Other pollen:			
57	unknowns	4	
	Sub-total:	4	
	Total pollen:	225	
Other microfossils:			
60	Botryococcus	2	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	92	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 55

Sample depth = 13.800 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	31	
2	Abies	2	
5	Tsuga (bladders)	1	
6	Tsuga (fringed)	1	
7	TCT	43	
9	Quercus	1	
78	Arceuthobium	1	
	Sub-total:	80	
Aquatic pollen:			
19	Cyperaceae	113	
	Sub-total:	113	
Herbs and shrubs:			
29	High-spine Compositae	5	
32	Artemisia	5	
34	Gramineae	1	
42	Umbelliferae	6	
50	Liliaceae	3	
88	Eriogonum	1	
	Sub-total:	21	
Other pollen:			
57	unknowns	8	
	Sub-total:	8	
	Total pollen:	222	
Other microfossils:			
60	Botryococcus	1	
70	Trilete spores	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	58	

Clear Lake, Lake County, California, Core 7

Raw pollen count data for sample 59

Sample depth = 14.200 meters

Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	30	
5	Tsuga (bladders)	2	
7	TCT	37	
16	Fraxinus	1	
76	Sequoia	1	
	Sub-total:	71	
Aquatic pollen:			
19	Cyperaceae	108	
23	Typha/Sparganium (monads)	11	
24	Nuphar	1	
	Sub-total:	120	
Herbs and shrubs:			
29	High-spine Compositae	1	
32	Artemisia	3	
34	Gramineae	1	
41	Rhamnaceae	2	
42	Umbelliferae	18	
	Sub-total:	25	
Other pollen:			
57	unknowns	3	
	Sub-total:	3	
	Total pollen:	219	
Other microfossils:			
59	Nuphar leaf hairs	4	
60	Botryococcus	3	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	55	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 63

Sample depth = 14.600 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	36	
2	Abies	3	
3	Picea	1	
5	Tsuga (bladders)	1	
7	TCT	56	
8	Chamaecyparis	1	
9	Quercus	2	
	Sub-total:	100	
Aquatic pollen:			
19	Cyperaceae	92	
23	Typha/Sparganium (monads)	2	
	Sub-total:	94	
Herbs and shrubs:			
32	Artemisia	12	
34	Gramineae	1	
42	Umbelliferae	3	
50	Liliaceae	1	
	Sub-total:	17	
Other pollen:			
55	echinate unk., cf. #26	3	
57	unknowns	6	
	Sub-total:	9	
	Total pollen:	220	
Other microfossils:			
60	Botryococcus	1	
62	Pediastrum A	2	
63	Pediastrum N	3	
65	Pediastrum X	5	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	71	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 67

Sample depth = 15.000 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	36	
5	Tsuga (bladders)	1	
7	TCT	65	
8	Chamaecyparis	1	
18	Salix	1	
	Sub-total:	104	
Aquatic pollen:			
19	Cyperaceae	107	
	Sub-total:	107	
Herbs and shrubs:			
29	High-spine Compositae	1	
32	Artemisia	5	
42	Umbelliferae	1	
50	Liliaceae	1	
	Sub-total:	8	
Other pollen:			
55	echinate unk., cf. #26	2	
	Sub-total:	2	
	Total pollen:	221	
Other microfossils:			
59	Nuphar leaf hairs	11	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	79	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 71

Sample depth = 15.400 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	48	
2	Abies	4	
3	Picea	1	
7	TCT	63	
8	Chamaecyparis	2	
	Sub-total:	118	
Aquatic pollen:			
19	Cyperaceae	69	
23	Typha/Sparganium (monads)	1	
24	Nuphar	2	
	Sub-total:	72	
Herbs and shrubs:			
32	Artemisia	9	
34	Gramineae	3	
41	Rhamnaceae	1	
49	Cruciferae	1	
	Sub-total:	14	
Other pollen:			
57	unknowns	5	5
	Sub-total:	5	
	Total pollen:	209	
Other microfossils:			
59	Nuphar leaf hairs	17	
60	Botryococcus	2	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	90	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 75

Sample depth = 15.800 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	34	
3	Picea	1	
5	Tsuga (bladders)	3	
7	TCT	24	
78	Arceuthobium	1	
	Sub-total:	63	
Aquatic pollen:			
19	Cyperaceae	137	
	Sub-total:	137	
Herbs and shrubs:			
32	Artemisia	6	
34	Gramineae	2	
42	Umbelliferae	1	
50	Liliaceae	1	
	Sub-total:	10	
Other pollen:			
55	echinate unk., cf. #26	8	
57	unknowns	7	
	Sub-total:	15	
	Total pollen:	225	
Other microfossils:			
60	Botryococcus	2	
65	Pediastrum X	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	46	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 79

Sample depth = 16.200 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	35	
2	Abies	2	
3	Picea	3	
5	Tsuga (bladders)	1	
7	TCT	33	
	Sub-total:	74	
Aquatic pollen:			
19	Cyperaceae	32	
23	Typha/Sparganium (monads)	160	
24	Nuphar	1	
26	Potamogeton	2	
	Sub-total:	195	
Herbs and shrubs:			
28	Cheno-ams	14	
30	Low-spine Compositae	1	
32	Artemisia	4	
34	Gramineae	3	
39	Polygonaceae	1	
43	Caryophyllaceae	11	
91	Rumex	1	
95	Campanulaceae	1	
	Sub-total:	36	
Other pollen:			
55	echinate unk., cf. #26	3	
57	unknowns	6	
	Sub-total:	9	
	Total pollen:	314	
Other microfossils:			
60	Botryococcus	3	
63	Pediastrum N	1	
65	Pediastrum X	2	
74	Pediastrum, type Z	1	
84	Spirogyra zygospore	2	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	84	

Clear Lake, Lake County, California, Core 7
 Raw pollen count data for sample 80

Sample depth = 16.300 meters
 Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	25	
2	Abies	1	
3	Picea	1	
5	Tsuga (bladders)	1	
7	TCT	28	
	Sub-total:	56	
Aquatic pollen:			
19	Cyperaceae	30	
23	Typha/Sparganium (monads)	131	
24	Nuphar	1	
	Sub-total:	162	
Herbs and shrubs:			
28	Cheno-ams	17	
29	High-spine Compositae	6	
32	Artemisia	1	
34	Gramineae	1	
39	Polygonaceae	1	
43	Caryophyllaceae	8	
	Sub-total:	34	
Other pollen:			
55	echinate unk., cf. #26	3	
57	unknowns	4	
	Sub-total:	7	
	Total pollen:	259	
Other microfossils:			
60	Botryococcus	1	
65	Pediastrum X	3	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	47	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 81

Sample depth = 16.400 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	89	
2	Abies	3	
6	Tsuga (fringed)	2	
7	TCT	82	
9	Quercus	3	
15	Alnus	1	
78	Arceuthobium	1	
	Sub-total:	181	
Aquatic pollen:			
19	Cyperaceae	97	
23	Typha/Sparganium (monads)	1	
	Sub-total:	98	
Herbs and shrubs:			
29	High-spine Compositae	1	
32	Artemisia	13	
34	Gramineae	2	
41	Rhamnaceae	1	
42	Umbelliferae	1	
80	Labiatae	1	
	Sub-total:	19	
Other pollen:			
55	echinate unk., cf. #26	34	
57	unknowns	2	
	Sub-total:	36	
	Total pollen:	334	
Other microfossils:			
60	Botryococcus	3	
74	Pediastrum, type Z	1	
84	Spirogyra zygospore	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	79	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 83

Sample depth = 16.600 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	40	
2	Abies	2	
3	Picea	3	
7	TCT	88	
8	Chamaecyparis	1	
9	Quercus	4	
15	Alnus	2	
	Sub-total:	140	
Aquatic pollen:			
19	Cyperaceae	11	
24	Nuphar	3	
26	Potamogeton	30	
	Sub-total:	44	
Herbs and shrubs:			
28	Cheno-ams	1	
32	Artemisia	19	
42	Umbelliferae	1	
44	Galium	1	
	Sub-total:	22	
Other pollen:			
57	unknowns	1	
	Sub-total:	1	
	Total pollen:	207	
Other microfossils:			
59	Nuphar leaf hairs	184	16
60	Botryococcus	10	
65	Pediastrum X	1	
83	Pediastrum AA	46	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	50	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 85

Sample depth = 17.000 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	80	
2	Abies	5	
3	Picea	1	
5	Tsuga (bladders)	1	
6	Tsuga (fringed)	1	
7	TCT	82	
9	Quercus	1	
	Sub-total:	171	
Aquatic pollen:			
19	Cyperaceae	7	
24	Nuphar	9	
86	Menyanthes	3	
	Sub-total:	19	
Herbs and shrubs:			
32	Artemisia	19	
34	Gramineae	3	
	Sub-total:	22	
Other pollen:			
55	echinate unk., cf. #26	3	
57	unknowns	2	
	Sub-total:	5	
	Total pollen:	217	
Other microfossils:			
59	Nuphar leaf hairs	102	24
60	Botryococcus	11	
83	Pediastrum AA	42	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	102	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 89

Sample depth = 17.400 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	35	
2	Abies	2	
3	Picea	1	
4	Pseudotsuga	2	
6	Tsuga (fringed)	1	
7	TCT	51	
	Sub-total:	92	
Aquatic pollen:			
19	Cyperaceae	89	
86	Menyanthes	1	
	Sub-total:	90	
Herbs and shrubs:			
29	High-spine Compositae	2	
32	Artemisia	10	
34	Gramineae	2	
43	Caryophyllaceae	1	
48	Geraniaceae	10	
	Sub-total:	25	
Other pollen:			
55	echinate unk., cf. #26	6	
57	unknowns	5	
93	unk. cf. Artemisia	2	
	Sub-total:	13	
	Total pollen:	220	
Other microfossils:			
60	Botryococcus	6	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	167	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 94

Sample depth = 17.800 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	95	
2	Abies	1	
4	Pseudotsuga	1	
6	Tsuga (fringed)	1	
7	TCT	65	
8	Chamaecyparis	5	
9	Quercus	2	
18	Salix	1	
	Sub-total:	171	
Aquatic pollen:			
19	Cyperaceae	19	
26	Potamogeton	2	
86	Menyanthes	2	
	Sub-total:	23	
Herbs and shrubs:			
28	Cheno-ams	10	
29	High-spine Compositae	1	
32	Artemisia	13	
34	Gramineae	1	
42	Umbelliferae	2	
	Sub-total:	27	
Other pollen:			
55	echinate unk., cf. #26	9	
57	unknowns	1	
	Sub-total:	10	
	Total pollen:	231	
Other microfossils:			
59	Nuphar leaf hairs	6	
60	Botryococcus	2	
83	Pediastrum AA	49	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	75	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 101

Sample depth = 18.200 meters
Sample volume = 1.30 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	90	
2	Abies	4	
3	Picea	1	
7	TCT	77	
9	Quercus	7	
78	Arceuthobium	1	
	Sub-total:	180	
Aquatic pollen:			
19	Cyperaceae	5	
24	Nuphar	2	
26	Potamogeton	3	
86	Menyanthes	2	
	Sub-total:	12	
Herbs and shrubs:			
29	High-spine Compositae	1	
32	Artemisia	15	
41	Rhamnaceae	1	
	Sub-total:	17	
Other pollen:			
13	cf. Tilia	1	
57	unknowns	1	
	Sub-total:	2	
	Total pollen:	211	
Other microfossils:			
59	Nuphar leaf hairs	100	20
60	Botryococcus	35	
64	Pediastrum O	7	
83	Pediastrum AA	101	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	63	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 204

Sample depth = 18.570 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	62	
2	Abies	10	
7	TCT	94	
9	Quercus	5	
92	Sambucus	1	
	Sub-total:	172	
Aquatic pollen:			
19	Cyperaceae	12	
24	Nuphar	5	
26	Potamogeton	4	
	Sub-total:	21	
Herbs and shrubs:			
32	Artemisia	10	
34	Gramineae	3	
41	Rhamnaceae	1	
42	Umbelliferae	1	
	Sub-total:	15	
Other pollen:			
57	unknowns	1	
	Sub-total:	1	
	Total pollen:	209	
Other microfossils:			
59	Nuphar leaf hairs	100	49
60	Botryococcus	8	
65	Pediastrum X	1	
74	Pediastrum, type Z	31	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	113	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 208

Sample depth = 19.000 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	67	
2	Abies	2	
3	Picea	1	
4	Pseudotsuga	1	
7	TCT	97	
9	Quercus	2	
18	Salix	1	
	Sub-total:	171	
Aquatic pollen:			
19	Cyperaceae	3	
24	Nuphar	1	
26	Potamogeton	12	
86	Menyanthes	1	
	Sub-total:	17	
Herbs and shrubs:			
28	Cheno-ams	1	
30	Low-spine Compositae	1	
32	Artemisia	13	
34	Gramineae	1	
50	Liliaceae	1	
	Sub-total:	17	
Other pollen:			
55	echinate unk., cf. #26	2	
57	unknowns	2	
	Sub-total:	4	
	Total pollen:	209	
Other microfossils:			
59	Nuphar leaf hairs	100	27
60	Botryococcus	40	
64	Pediastrum O	6	
65	Pediastrum X	20	
74	Pediastrum, type Z	43	
94	Pediastrum CC	6	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	83	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 211

Sample depth = 19.400 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	81	
2	Abies	1	
6	Tsuga (fringed)	2	
7	TCT	74	
9	Quercus	5	
76	Sequoia	1	
	Sub-total:	164	
Aquatic pollen:			
19	Cyperaceae	19	
26	Potamogeton	1	
	Sub-total:	20	
Herbs and shrubs:			
29	High-spine Compositae	1	
32	Artemisia	8	
34	Gramineae	1	
	Sub-total:	10	
Other pollen:			
13	cf. Tilia	1	
55	echinate unk., cf. #26	1	
57	unknowns	6	
	Sub-total:	8	
	Total pollen:	202	
Other microfossils:			
59	Nuphar leaf hairs	4	
60	Botryococcus	5	
74	Pediastrum, type Z	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	83	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 215

Sample depth = 19.800 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	52	
2	Abies	2	
3	Picea	2	
7	TCT	83	
9	Quercus	4	
	Sub-total:	143	
Aquatic pollen:			
19	Cyperaceae	17	
24	Nuphar	1	
26	Potamogeton	1	
86	Menyanthes	6	
	Sub-total:	25	
Herbs and shrubs:			
28	Cheno-ams	2	
29	High-spine Compositae	3	
30	Low-spine Compositae	1	
32	Artemisia	9	
34	Gramineae	2	
42	Umbelliferae	2	
50	Liliaceae	1	
	Sub-total:	20	
Other pollen:			
55	echinate unk., cf. #26	16	
57	unknowns	2	
	Sub-total:	18	
	Total pollen:	206	
Other microfossils:			
59	Nuphar leaf hairs	40	
60	Botryococcus	8	
72	Large, fringed trilete spore	1	
83	Pediastrum AA	11	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	84	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 218

Sample depth = 20.100 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	54	
2	Abies	1	
5	Tsuga (bladders)	1	
7	TCT	42	
9	Quercus	2	
	Sub-total:	100	
Aquatic pollen:			
19	Cyperaceae	58	
22	Typha (tetrads)	7	
23	Typha/Sparganium (monads)	7	
	Sub-total:	72	
Herbs and shrubs:			
28	Cheno-ams	19	
32	Artemisia	4	
43	Caryophyllaceae	1	
	Sub-total:	24	
Other pollen:			
57	unknowns	9	
93	unk. cf. Artemisia	1	
	Sub-total:	10	
	Total pollen:	206	
Other microfossils:			
65	Pediastrum X	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	110	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 221

Sample depth = 20.200 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	67	
2	Abies	8	
3	Picea	2	
7	TCT	84	
9	Quercus	2	
15	Alnus	1	
	Sub-total:	164	
Aquatic pollen:			
19	Cyperaceae	6	
24	Nuphar	2	
25	Rorippa	1	
26	Potamogeton	3	
86	Menyanthes	8	
87	Utricularia	1	
	Sub-total:	21	
Herbs and shrubs:			
29	High-spine Compositae	2	
30	Low-spine Compositae	3	
32	Artemisia	12	
34	Gramineae	1	
42	Umbelliferae	1	
89	Sarcobatus	1	
98	Primulaceae	1	
	Sub-total:	21	
Other pollen:			
53	cf. Tilia, 4 pores	1	
55	echinate unk., cf. #26	1	
57	unknowns	1	
	Sub-total:	3	
	Total pollen:	209	
Other microfossils:			
59	Nuphar leaf hairs	100	19
60	Botryococcus	11	
63	Pediastrum N	1	
64	Pediastrum O	3	
65	Pediastrum X	1	
70	Trilete spores	1	
74	Pediastrum, type Z	22	
94	Pediastrum CC	5	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	56	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 223

Sample depth = 20.610 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	64	
2	Abies	1	
4	Pseudotsuga	1	
6	Tsuga (fringed)	1	
7	TCT	79	
9	Quercus	5	
16	Fraxinus	2	
18	Salix	1	
	Sub-total:	154	
Aquatic pollen:			
19	Cyperaceae	6	
20	Brasenia	4	
24	Nuphar	6	
26	Potamogeton	16	
	Sub-total:	32	
Herbs and shrubs:			
29	High-spine Compositae	3	
30	Low-spine Compositae	1	
32	Artemisia	9	
34	Gramineae	1	
41	Rhamnaceae	1	
42	Umbelliferae	1	
	Sub-total:	16	
Other pollen:			
57	unknowns	2	
	Sub-total:	2	
	Total pollen:	204	
Other microfossils:			
59	Nuphar leaf hairs	156	20
60	Botryococcus	42	
64	Pediastrum O	2	
65	Pediastrum X	23	
74	Pediastrum, type Z	33	
94	Pediastrum CC	8	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	100	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 230

Sample depth = 21.030 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	57	
2	Abies	2	
3	Picea	2	
4	Pseudotsuga	1	
6	Tsuga (fringed)	1	
7	TCT	73	
9	Quercus	13	
10	Lithocarpus	1	
15	Alnus	1	
78	Arceuthobium	1	
	Sub-total:	152	
Aquatic pollen:			
19	Cyperaceae	19	
24	Nuphar	10	
26	Potamogeton	8	
75	Isoetes	1	
86	Menyanthes	1	
87	Utricularia	1	
	Sub-total:	40	
Herbs and shrubs:			
28	Cheno-ams	1	
29	High-spine Compositae	1	
30	Low-spine Compositae	1	
32	Artemisia	4	
41	Rhamnaceae	1	
	Sub-total:	8	
Other pollen:			
13	cf. Tilia	2	
55	echinate unk., cf. #26	1	
57	unknowns	1	
	Sub-total:	4	
	Total pollen:	204	
Other microfossils:			
59	Nuphar leaf hairs	100	48
60	Botryococcus	41	
64	Pediastrum O	8	
65	Pediastrum X	15	
83	Pediastrum AA	15	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	203	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 234

Sample depth = 21.400 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	48	
2	Abies	1	
3	Picea	2	
4	Pseudotsuga	1	
6	Tsuga (fringed)	2	
7	TCT	66	
9	Quercus	5	
15	Alnus	1	
	Sub-total:	126	
Aquatic pollen:			
19	Cyperaceae	63	
22	Typha (tetrads)	1	
23	Typha/Sparganium (monads)	1	
26	Potamogeton	1	
	Sub-total:	66	
Herbs and shrubs:			
28	Cheno-ams	1	
29	High-spine Compositae	3	
32	Artemisia	4	
	Sub-total:	8	
Other pollen:			
55	echinate unk., cf. #26	1	
57	unknowns	10	
	Sub-total:	11	
	Total pollen:	211	
Other microfossils:			
60	Botryococcus	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	95	

Clear Lake, Lake County, California, Core 7

Raw pollen count data for sample 238

Sample depth = 21.800 meters

Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	83	
2	Abies	4	
4	Pseudotsuga	1	
5	Tsuga (bladders)	2	
6	Tsuga (fringed)	3	
7	TCT	57	
9	Quercus	1	
18	Salix	1	
78	Arceuthobium	1	
	Sub-total:	153	
Aquatic pollen:			
19	Cyperaceae	11	
24	Nuphar	7	
26	Potamogeton	11	
	Sub-total:	29	
Herbs and shrubs:			
29	High-spine Compositae	1	
31	Liguliflorae	1	
32	Artemisia	7	
42	Umbelliferae	6	
	Sub-total:	15	
Other pollen:			
55	echinate unk., cf. #26	2	
57	unknowns	3	
	Sub-total:	5	
	Total pollen:	202	
Other microfossils:			
59	Nuphar leaf hairs	100	22
60	Botryococcus	19	
74	Pediastrum, type Z	51	
94	Pediastrum CC	11	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	71	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 241

Sample depth = 22.200 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	35	
2	Abies	2	
3	Picea	2	
7	TCT	66	
8	Chamaecyparis	1	
	Sub-total:	106	
Aquatic pollen:			
19	Cyperaceae	85	
23	Typha/Sparganium (monads)	1	
26	Potamogeton	1	
86	Menyanthes	8	
	Sub-total:	95	
Herbs and shrubs:			
29	High-spine Compositae	1	
32	Artemisia	1	
34	Gramineae	1	
42	Umbelliferae	4	
	Sub-total:	7	
Other pollen:			
57	unknowns	2	
	Sub-total:	2	
	Total pollen:	210	
Other microfossils:			
59	Nuphar leaf hairs	16	
60	Botryococcus	4	
65	Pediastrum X	3	
74	Pediastrum, type Z	6	
94	Pediastrum CC	17	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	84	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 246

Sample depth = 22.600 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	56	
2	Abies	3	
3	Picea	1	
4	Pseudotsuga	1	
7	TCT	90	
9	Quercus	1	
18	Salix	1	
78	Arceuthobium	1	
	Sub-total:	154	
Aquatic pollen:			
19	Cyperaceae	32	
24	Nuphar	7	
	Sub-total:	39	
Herbs and shrubs:			
32	Artemisia	7	
	Sub-total:	7	
Other pollen:			
57	unknowns	4	
	Sub-total:	4	
	Total pollen:	204	
Other microfossils:			
59	Nuphar leaf hairs	100	30
60	Botryococcus	3	
83	Pediastrum AA	9	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	76	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 250

Sample depth = 23.100 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	70	
2	Abies	2	
5	Tsuga (bladders)	3	
7	TCT	70	
9	Quercus	1	
78	Arceuthobium	2	
	Sub-total:	148	
Aquatic pollen:			
19	Cyperaceae	43	
22	Typha (tetrads)	1	
24	Nuphar	3	
26	Potamogeton	3	
	Sub-total:	50	
Herbs and shrubs:			
28	Cheno-ams	1	
29	High-spine Compositae	2	
32	Artemisia	5	
34	Gramineae	2	
	Sub-total:	10	
Other pollen:			
93	unk. cf. Artemisia	6	
	Sub-total:	6	
	Total pollen:	214	
Other microfossils:			
59	Nuphar leaf hairs	185	20
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	63	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 254

Sample depth = 23.500 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	33	
2	Abies	1	
3	Picea	1	
7	TCT	41	
9	Quercus	4	
18	Salix	2	
	Sub-total:	82	
Aquatic pollen:			
19	Cyperaceae	65	
21	Myriophyllum	1	
23	Typha/Sparganium (monads)	3	
26	Potamogeton	38	
27	Sagittaria	1	
	Sub-total:	108	
Herbs and shrubs:			
32	Artemisia	4	
34	Gramineae	1	
43	Caryophyllaceae	2	
45	Leguminosae	1	
46	Thalictrum	1	
49	Cruciferae	1	
	Sub-total:	10	
Other pollen:			
57	unknowns	4	
	Sub-total:	4	
	Total pollen:	204	
Other microfossils:			
59	Nuphar leaf hairs	9	
60	Botryococcus	4	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	85	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 257

Sample depth = 23.900 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	53	
2	Abies	1	
4	Pseudotsuga	1	
7	TCT	53	
9	Quercus	4	
	Sub-total:	112	
Aquatic pollen:			
19	Cyperaceae	95	
	Sub-total:	95	
Herbs and shrubs:			
32	Artemisia	4	
89	Sarcobatus	1	
90	Violaceae	1	
	Sub-total:	6	
Other pollen:			
54	4-pored unk., cf. #175	1	
57	unknowns	1	
	Sub-total:	2	
	Total pollen:	215	
Other microfossils:			
60	Botryococcus	3	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	76	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 261

Sample depth = 24.300 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	53	
3	Picea	1	
4	Pseudotsuga	1	
5	Tsuga (bladders)	1	
7	TCT	56	
9	Quercus	3	
	Sub-total:	115	
Aquatic pollen:			
19	Cyperaceae	105	
24	Nuphar	8	
	Sub-total:	113	
Herbs and shrubs:			
29	High-spine Compositae	1	
32	Artemisia	16	
34	Gramineae	3	
42	Umbelliferae	1	
49	Cruciferae	2	
	Sub-total:	23	
Other pollen:			
13	cf. Tilia	1	
53	cf. Tilia, 4 pores	1	
55	echinate unk., cf. #26	1	
57	unknowns	1	
	Sub-total:	4	
	Total pollen:	255	
Other microfossils:			
59	Nuphar leaf hairs	2	
60	Botryococcus	2	
83	Pediastrum AA	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	59	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 264

Sample depth = 24.700 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	70	
2	Abies	4	
7	TCT	85	
9	Quercus	10	
15	Alnus	1	
	Sub-total:	170	
Aquatic pollen:			
19	Cyperaceae	15	
24	Nuphar	4	
26	Potamogeton	1	
	Sub-total:	20	
Herbs and shrubs:			
28	Cheno-ams	1	
29	High-spine Compositae	4	
32	Artemisia	5	
34	Gramineae	1	
42	Umbelliferae	3	
43	Caryophyllaceae	1	
	Sub-total:	15	
Other pollen:			
57	unknowns	2	
	Sub-total:	2	
	Total pollen:	207	
Other microfossils:			
59	Nuphar leaf hairs	100	38
60	Botryococcus	1	
63	Pediastrum N	1	
65	Pediastrum X	1	
74	Pediastrum, type Z	22	
94	Pediastrum CC	2	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	122	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 268

Sample depth = 25.100 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	79	
2	Abies	2	
3	Picea	1	
4	Pseudotsuga	1	
7	TCT	63	
9	Quercus	4	
10	Lithocarpus	1	
15	Alnus	1	
18	Salix	1	
77	Corylus	1	
	Sub-total:	154	
Aquatic pollen:			
19	Cyperaceae	33	
23	Typha/Sparganium (monads)	1	
24	Nuphar	1	
26	Potamogeton	1	
	Sub-total:	36	
Herbs and shrubs:			
29	High-spine Compositae	1	
32	Artemisia	6	
34	Gramineae	1	
41	Rhamnaceae	1	
42	Umbelliferae	1	
99	Hedera	1	
	Sub-total:	11	
Other pollen:			
52	4-colpate reticulate unk.	1	
57	unknowns	7	
	Sub-total:	8	
	Total pollen:	209	
Other microfossils:			
59	Nuphar leaf hairs	100	47
74	Pediastrum, type Z	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	84	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 272

Sample depth = 25.500 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	36	
2	Abies	2	
3	Picea	2	
7	TCT	54	
9	Quercus	8	
12	Juglans	1	
16	Fraxinus	1	
18	Salix	1	
	Sub-total:	105	
Aquatic pollen:			
19	Cyperaceae	37	
22	Typha (tetrads)	5	
23	Typha/Sparganium (monads)	9	
24	Nuphar	7	
26	Potamogeton	10	
96	Nymphaea (cf. Kapp)	1	
	Sub-total:	69	
Herbs and shrubs:			
28	Cheno-ams	9	
32	Artemisia	9	
34	Gramineae	2	
41	Rhamnaceae	1	
43	Caryophyllaceae	1	
95	Campanulaceae	1	
	Sub-total:	23	
Other pollen:			
55	echinate unk., cf. #26	3	
57	unknowns	8	
73	cf. Pedicularis	1	
	Sub-total:	12	
	Total pollen:	209	
Other microfossils:			
59	Nuphar leaf hairs	49	
60	Botryococcus	3	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	80	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 275

Sample depth = 26.000 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	75	
2	Abies	9	
4	Pseudotsuga	1	
5	Tsuga (bladders)	1	
7	TCT	66	
9	Quercus	6	
12	Juglans	1	
	Sub-total:	159	
Aquatic pollen:			
19	Cyperaceae	15	
24	Nuphar	10	
	Sub-total:	25	
Herbs and shrubs:			
28	Cheno-ams	1	
29	High-spine Compositae	3	
32	Artemisia	21	
42	Umbelliferae	2	
50	Liliaceae	1	
	Sub-total:	28	
Other pollen:			
13	cf. Tilia	2	
55	echinate unk., cf. #26	1	
57	unknowns	2	
	Sub-total:	5	
	Total pollen:	217	
Other microfossils:			
59	Nuphar leaf hairs	20	
60	Botryococcus	1	
65	Pediastrum X	27	
71	Dryopteris-type	1	
83	Pediastrum AA	29	
85	Pediastrum BB	3	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	58	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 281

Sample depth = 26.400 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	33	
2	Abies	3	
5	Tsuga (bladders)	1	
7	TCT	40	
9	Quercus	2	
	Sub-total:	79	
Aquatic pollen:			
19	Cyperaceae	87	
21	Myriophyllum	2	
22	Typha (tetrads)	10	
23	Typha/Sparganium (monads)	2	
24	Nuphar	3	
26	Potamogeton	6	
	Sub-total:	110	
Herbs and shrubs:			
28	Cheno-ams	2	
29	High-spine Compositae	1	
32	Artemisia	8	
34	Gramineae	1	
39	Polygonaceae	1	
42	Umbelliferae	1	
91	Rumex	1	
	Sub-total:	15	
Other pollen:			
55	echinate unk., cf. #26	1	
57	unknowns	2	
	Sub-total:	3	
	Total pollen:	207	
Other microfossils:			
59	Nuphar leaf hairs	30	
60	Botryococcus	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	154	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 290

Sample depth = 26.800 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	44	
2	Abies	3	
4	Pseudotsuga	1	
7	TCT	59	
9	Quercus	3	
78	Arceuthobium	1	
	Sub-total:	111	
Aquatic pollen:			
19	Cyperaceae	58	
21	Myriophyllum	1	
23	Typha/Sparganium (monads)	3	
24	Nuphar	4	
26	Potamogeton	1	
	Sub-total:	67	
Herbs and shrubs:			
28	Cheno-ams	6	
29	High-spine Compositae	2	
32	Artemisia	3	
42	Umbelliferae	3	
50	Liliaceae	1	
	Sub-total:	15	
Other pollen:			
54	4-pored unk., cf. #175	7	
55	echinate unk., cf. #26	3	
57	unknowns	8	
	Sub-total:	18	
	Total pollen:	211	
Other microfossils:			
59	Nuphar leaf hairs	51	
64	Pediastrum O	1	
83	Pediastrum AA	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	78	

Clear Lake, Lake County, California, Core 7
Raw pollen count data for sample 294

Sample depth = 27.100 meters
Sample volume = 2.19 cubic centimeters

Variable number	Variable name	Count	Tracer sub-counts
Arboreal pollen:			
1	Pinus	67	
2	Abies	6	
4	Pseudotsuga	1	
5	Tsuga (bladders)	2	
7	TCT	62	
9	Quercus	14	
14	Castanopsis	1	
77	Corylus	1	
	Sub-total:	154	
Aquatic pollen:			
19	Cyperaceae	13	
24	Nuphar	6	
26	Potamogeton	1	
27	Sagittaria	1	
75	Isoetes	3	
	Sub-total:	24	
Herbs and shrubs:			
28	Cheno-ams	5	
29	High-spine Compositae	2	
32	Artemisia	8	
33	Ericaceae	1	
34	Gramineae	1	
41	Rhamnaceae	1	
49	Cruciferae	1	
	Sub-total:	19	
Other pollen:			
13	cf. Tilia	2	
52	4-colpate reticulate unk.	1	
57	unknowns	5	
	Sub-total:	8	
	Total pollen:	205	
Other microfossils:			
59	Nuphar leaf hairs	100	26
65	Pediastrum X	6	
83	Pediastrum AA	2	
84	Spirogyra zygospore	1	
Exotic tracers (added to sample):			
58	Eucalyptus (tracer)	102	

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