

APPENDIX A - TREE SURVEY

**OAKLAND ZOO IN KNOWLAND PARK MASTER PLAN
DOCUMENTATION FOR TREE SURVEY, 1995 AND UPDATED IN 1997**

In 1995, a tree survey was conducted to identify the number of trees that could be affected by project development. Trees were surveyed within the vicinity of the California 1820 Exhibit area and the Center for Science and Environmental Education. The preliminary site plan has since been revised resulting in changes in the location of the Center for Science and Environmental Education, Interpretive Center, Off-site Breeding Area, fence lines, and Shuttle Road. A second tree survey was conducted in January 1997 to identify the number of trees that could be affected by the site plan revisions. The total number of trees surveyed in the proposed areas of development are presented in the following spreadsheets; as well as spreadsheets presenting a preliminary list of trees that may be removed.

Field procedures are summarized below:

1. DBH measurements were taken with a centimeter DBH tape, so conversions may have some slight deviations.
2. Per Oakland tree ordinance survey, all trees whose sum of DBH stem measurements added up to 4 inches for oaks, and 9 inches for non-oaks were surveyed. (Several trees that were too small to meet the criteria were inadvertently included.)
3. Conventions used:
 - only stems larger than 1.6 in (4 cm) were measured.
 - if a stem was horizontal for a long distance, a diameter at 4-6 feet along the stem was taken, rather than at 4-4.5 ft off the ground, especially if the stem branched above.
 - if a diameter was clearly smaller if taken below a branching, this value was used, even if it was below breast height.
 - DBH were taken at or slightly below 4.5 feet, rather than above it.
 - stems with a visible connection, even at ground level, were considered a single tree.
4. Some oddities about the tree tags: first, there were some duplications of tag numbers. One, nos. 175-203, was used in the Environmental Education Center area. The other, nos. 175-200, was used along the Shuttle Road. Tag nos. 201-203 were missing from this group. Second, several tags were either missing from the set or, in one instance, lost before it was applied to a tree. Missing tags are noted in the printout.
5. Tags were generally put at eye level, although in the bison and tule elk enclosure, tags are higher and in a place where bison and tule elk would find them difficult to rub against.
6. Nearly all tags are the round, stamped aluminum type. A few in the bison enclosure are rectangular and are nailed in at both ends.

OAKLAND ZOO IN KNOWLAND PARK TREE SURVEY

LAST DATE UPDATED: JAN. 23, 1997

ACACIA=ACACIA SP. - ACACIA
 PIRA-PINUS RADIATA - MONTEREY PINE
 QUAG-QUERCUS AGRIFOLIA - COAST LIVE OAK
 PRUNUS-PRUNUS SP-PROBABLY P. DULCIS - ALMOND
 UMCA-UMBELLULARIA CALIFORNICA - CALIFORNIA BAY
 PICO-PINUS COULTERI - COULTER PINE
 PSME-PSEUDOTSUGA MENZIESII - DOUGLAS-FIR
 SAME-SAMBUCES MEXICANA - ELDERBERRY
 OLIVE-OLEAGNUS ANGUSTIFOLIUS - RUSSIAN OLIVE

TAG NO.	SPECIES	LOCATION	NO. STEMS	TOTAL DBH	DBH, IN INCHES, EACH STEM SEPARATE				
1	PIRA	PAVED ACCESS	4	60.4	24.4	12.8	8.8	14.4	
2	ACACIA	PAVED ACCESS	1	10.4	10.4				
3	ACACIA	PAVED ACCESS	2	8.7	8.7				TOO SMALL; LESS THAN 9 IN DBH
4	ACACIA	PAVED ACCESS	1	15.2	15.2				
5	PIRA	PAVED ACCESS	1	23.2	23.2				
6	PIRA	PAVED ACCESS	1	35.8	35.8				
7	QUAG	PAVED ACCESS	4	26.2	8.1	3.0	6.5	8.6	
8	PRUNUS	PAVED ACCESS	3	12.4	7.4	3.1	2.0		
9	PIRA	PAVED ACCESS	1	13.7	13.7				
10	PIRA	PAVED ACCESS	1	19.6	19.6				
11	PIRA	PAVED ACCESS	6	58.5	15.6	12.0	5.9	6.1	10.0 8.9
12	PIRA	PAVED ACCESS	1	32.5	32.5				
13	QUAG	SHUTTLE RD	1	6.5	6.5				
14	QUAG	SHUTTLE RD	2	9.7	5.9	3.9			
15	QUAG	SHUTTLE RD	2	3.4	3.4				TOO SMALL; LESS THAN 4 IN DBH
16	PICO	SHUTTLE RD	1	9.7	9.7				
17	PICO	SHUTTLE RD	2	12.6	8.2	4.3			
18	PIRA	SHUTTLE RD	1	9.7	9.7				
19	PIRA	SHUTTLE RD	5	30.6	4.8	7.1	8.5	4.9	5.3
20	PIRA	SHUTTLE RD	1	11.7	11.7				
21	PIRA	SHUTTLE RD	1	10.7	10.7				
22	PIRA	SHUTTLE RD	1	17.3	17.3				
23	PIRA	SHUTTLE RD	1	10.2	10.2				
24	PIRA	SHUTTLE RD	1	14.6	14.6				
25	PIRA	SHUTTLE RD	1	20.2	20.2				
26	PIRA	SHUTTLE RD	1	19.9	19.9				
27	PIRA	SHUTTLE RD	1	10.9	10.9				
28	QUAG	SHUTTLE RD	1	6.6	6.6				
29	PIRA	SHUTTLE RD	1	19.0	19.0				
30	PIRA	SHUTTLE RD	1	15.5	15.5				
31	QUAG	SHUTTLE RD	3	11.7	4.4	4.2	3.1		
32	PIRA	SHUTTLE RD	1	22.9	22.9				
33	QUAG	SHUTTLE RD	4	20.7	8.0	5.9	3.1	3.7	
34	QUAG	SHUTTLE RD	2	12.9	9.2	3.7			
35	QUAG	NEW BISON	1	13.6	13.6				
36	QUAG	NEW BISON	3	14.3	4.0	3.7	6.6		
37	QUAG	NEW BISON	2	19.9	7.7	12.2			
38	QUAG	NEW BISON	1	6.0	6.0				
39	QUAG	NEW BISON	7	27.5	5.7	4.4	3.3	3.3	2.5 4.7 3.5
40	QUAG	NEW BISON	3	26.4	12.9	10.6	2.9		
41	QUAG	SHUTTLE RD	5	36.6	8.7	3.7	2.3	8.6	13.3
42	QUAG	SHUTTLE RD	1	16.4	16.4				
43	QUAG	SHUTTLE RD	3	17.0	6.1	5.7	5.2		
44	QUAG	TOP, S OF RD	3	21.9	7.9	7.6	6.3		
45	QUAG	TOP, S OF RD	1	9.7	9.7				
46	QUAG	TOP, S OF RD	2	4.4	2.2	2.2			
47	QUAG	TOP, S OF RD	2	15.9	6.3	9.6			
48	QUAG	TOP, S OF RD	2	5.8	3.6	2.2			
49	UMCA	TOP, S OF RD	3	12.1	3.9	3.9	4.3		
50	QUAG	TOP, S OF RD	1	10.0	10.0				
51	UMCA	TOP, S OF RD	1	10.3	10.3				
52	UMCA	TOP, S OF RD	2	6.7	6.7				TOO SMALL; LESS THAN 9 IN DBH
53	QUAG	TOP, S OF RD	1	4.7	4.7				

TAG NO.	SPECIES	LOCATION	NO. STEMS	TOTAL		DBH, IN INCHES, EACH STEM SEPARATE									
				DBH	DBH										
54	UMCA	TOP, S OF RD	5	22.0	3.7	4.7	4.4	5.4	3.7						
55	UMCA	TOP, S OF RD	3	9.4	3.9	2.6	3.0								
56	UMCA	TOP, S OF RD	3	10.7	4.3	3.2	3.2								
57	QUAG	TOP, S OF RD	1	10.2	10.2										
58	QUAG	TOP, S OF RD	7	28.7	5.9	3.9	2.2	5.7	3.7	4.4	2.7				
59	QUAG	TOP, S OF RD	1	6.8	6.8										
60	QUAG	TOP, S OF RD	1	5.9	5.9										
61	QUAG	TOP, S OF RD	2	15.6	6.3	9.2									
62	UMCA	TOP, S OF RD	5	12.8	2.6	1.9	1.8	3.2	3.4						
63	QUAG	TOP, S OF RD	2	22.1	14.6	7.5									
64	QUAG	TOP, S OF RD	3	13.5	4.1	2.1	7.2								
65	SAME	TOP, S OF RD	6	20.0	2.8	4.4	6.9	1.6	1.6	2.8					
66	SAME	TOP, S OF RD	4	13.6	4.0	2.4	3.3	3.9							
67	QUAG	TOP, S OF RD	2	10.7	7.6	3.1									
68	QUAG	TOP, S OF RD	2	13.2	5.7	7.5									
69	QUAG	TOP, S OF RD	1	13.1	13.1										
70	QUAG	TOP, S OF RD	2	26.3	16.1	10.2									
71	QUAG	TOP, S OF RD	1	4.1	4.1										
72	QUAG	TOP, S OF RD	1	4.5	4.5										
73	QUAG	TOP, S OF RD	6	72.7	13.5	14.3	11.1	13.2	10.6	10.1					
74	QUAG	TOP, S OF RD	2	11.3	4.1	7.2									
75	QUAG	TOP, S OF RD	3	12.3	4.3	4.6	3.3								
76	QUAG	E. DRAW, TOP	1	13.4	13.4										
77	QUAG	E. DRAW, TOP	1	13.3	13.3										
78	QUAG	E. DRAW, TOP	2	10.0	4.5	5.5									
79	QUAG	E. DRAW, TOP	3	16.1	6.6	3.9	5.6								
80	QUAG	E. DRAW, TOP	3	24.7	10.5	9.6	4.6								
81	UMCA	E. DRAW, TOP	3	11.1	3.7	3.1	4.3								
82	UMCA	E. DRAW, TOP	7	14.7	2.4	2.3	1.9	2.4	2.1	2.0	1.7				
83	QUAG	E. DRAW, TOP	4	31.0	10.5	9.9	4.8	5.8							
84	QUAG	E. DRAW, TOP	2	17.4	10.8	6.6									
85	PIRA	E. DRAW, TOP	1	13.0	13.0										
86	UMCA	E. DRAW, TOP	7	14.6	1.9	2.0	2.6	2.2	2.6	1.7	1.6				
87	OLIVE	ENV.ED.CTR.	8	30.9	4.1	2.2	4.3	2.1	4.1	3.1	4.9	6.0			
88	OLIVE	ENV.ED.CTR.	3	11.6	4.4	3.1	4.0								
89	OLIVE	ENV.ED.CTR.	13	50.8	7.0	6.1	4.0	3.8	2.4	1.7	2.4	1.9	3.9	3.1	5.7
90	PIRA	ENV.ED.CTR.	1	23.8	23.8										5.6
91	QUAG	ENV.ED.CTR.	2	9.4	4.6	4.8									
92	PIRA	ENV.ED.CTR.	1	22.5	22.5										
93	PIRA	ENV.ED.CTR.	1	23.8	23.8										
94	QUAG	ENV.ED.CTR.	3	30.7	10.9	11.7	8.1								
95	QUAG	ENV.ED.CTR.	3	23.6	4.1	11.2	8.3								
96	QUAG	ENV.ED.CTR.	2	6.2	4.3	1.9									
101	QUAG	N OF TOP ACC. RD	3	23.6	7.7	12.3	3.6								
102	QUAG	N OF TOP ACC. RD	8	36.7	7.1	3.4	6.9	8.3	3.0	3.1	2.6	2.2			
103	QUAG	N OF TOP ACC. RD	2	26.7	14.7	12.0									
104	QUAG	N OF TOP ACC. RD	2	25.7	12.8	12.9									
105	QUAG	N OF TOP ACC. RD	1	10.4	10.4										
106	QUAG	N OF TOP ACC. RD	2	12.0	2.9	9.1									
107	QUAG	N OF TOP ACC. RD	3	31.9	9.3	11.7	10.8								
108	QUAG	N OF TOP ACC. RD	2	13.5	7.4	6.1									
109	QUAG	N OF TOP ACC. RD	2	20.6	14.1	6.5									
110	QUAG	N OF TOP ACC. RD	4	17.7	3.7	5.0	4.1	4.8							
111	UMCA	E OF DOG AREA	2	10.7	5.5	5.2									
112	QUAG	E OF DOG AREA	1	8.5	8.5										
113	QUAG	E OF DOG AREA	1	13.5	13.5										
114	QUAG	E OF DOG AREA	3	7.0	2.6	2.1	2.2								
115	QUAG	E OF DOG AREA	2	15.4	7.8	7.6									
116	QUAG	E OF DOG AREA	1	8.0	8.0										
117	QUAG	E OF DOG AREA	3	12.7	4.9	4.8	3.0								
118	QUAG	E OF DOG AREA	5	15.3	3.9	2.2	2.1	1.9	5.2						
119	QUAG	E OF DOG AREA	4	15.5	4.8	4.1	4.6	2.0							
120	QUAG	E OF DOG AREA	1	9.0	9.0										
121	QUAG	E OF DOG AREA	5	29.9	7.5	6.7	2.6	5.9	7.3						

TAG NO.	SPECIES	LOCATION	NO. STEMS	TOTAL DBH	DBH, IN INCHES, EACH STEM SEPARATE							
122	QUAG	E OF DOG AREA	1	5.7	5.7							
123	QUAG	E OF DOG AREA	3	19.8	5.0	6.7	8.0					
124	QUAG	E OF DOG AREA	4	35.4	9.6	5.5	12.0	8.4				
125	QUAG	E OF DOG AREA	1	15.6	15.6							
126	QUAG	E OF DOG AREA	5	48.3	10.8	4.3	7.9	15.9	9.3			
127	QUAG	E OF DOG AREA	6	19.8	4.0	2.3	4.1	3.2	2.0	4.2		
128	QUAG	E OF DOG AREA	4	20.3	5.3	4.6	4.5	5.9				
129	QUAG	SHUTTLE RD W SIDE	4	13.9	3.0	4.1	4.4	2.4				
130	QUAG	SHUTTLE RD W SIDE	4	10.6	1.6	2.5	2.7	3.9				
131	QUAG	SHUTTLE RD W SIDE	4	31.6	9.4	9.4	5.9	6.9				
132	QUAG	SHUTTLE RD W SIDE	3	10.4	4.4	3.5	2.5					
133	QUAG	SHUTTLE RD W SIDE	3	16.1	4.4	7.1	4.6					
134	QUAG	SHUTTLE RD W SIDE	1	14.6	14.6							
135	QUAG	SHUTTLE RD W SIDE	1	8.5	8.5							
136	QUAG	SHUTTLE RD W SIDE	1	28.3	28.3							
137	QUAG	SHUTTLE RD W SIDE	5	42.7	8.9	16.0	4.1	8.1	5.6			
138	QUAG	SHUTTLE RD W SIDE	2	15.0	10.1	4.9						
139	QUAG	SHUTTLE RD W SIDE	3	10.7	5.2	2.5	3.0					
140	QUAG	SHUTTLE RD W SIDE	4	49.8	10.4	12.2	13.0	14.3				
141	QUAG	SHUTTLE RD W SIDE	2	12.4	3.0	9.4						
142	QUAG	SHUTTLE RD W SIDE	2	5.2	3.6	1.6						
143	QUAG	SHUTTLE RD W SIDE	2	19.4	13.1	6.3						
144	QUAG	SHUTTLE RD W SIDE	3	32.2	9.3	12.6	10.3					
145	QUAG	SHUTTLE RD W SIDE	7	35.8	2.9	7.4	5.4	4.2	6.7	6.5	2.7	
146	QUAG	SHUTTLE RD W SIDE	4	50.6	13.5	9.2	14.9	13.0				
147		NO TAG										
148	QUAG	SHUTTLE RD W SIDE	3	16.7	5.6	6.7	4.3					
149	QUAG	SHUTTLE RD W SIDE	1	6.9	6.9							
150	QUAG	SHUTTLE RD W SIDE	2	19.5	14.7	4.8						
151	QUAG	SHUTTLE RD W SIDE	4	32.8	12.6	10.4	4.5	5.3				
152	QUAG	SHUTTLE RD W SIDE	4	57.6	13.6	14.5	13.1	16.4				
153	QUAG	SHUTTLE RD W SIDE	1	7.9	7.9							
154	QUAG	SHUTTLE RD W SIDE	2	7.4	3.6	3.9						
155	QUAG	SHUTTLE RD W SIDE	2	23.0	12.8	10.2						
156	QUAG	SHUTTLE RD W SIDE	1	18.8	18.8							
157	QUAG	SHUTTLE RD W SIDE	2	49.0	16.9	32.1						
158	QUAG	SHUTTLE RD W SIDE	7	38.4	4.8	4.0	4.9	2.4	5.6	8.7	8.1	
159	QUAG	SHUTTLE RD W SIDE	1	5.0	5.0							
160	QUAG	SHUTTLE RD W SIDE	1	5.0	5.0							
161	QUAG	SHUTTLE RD W SIDE	2	33.0	10.6	22.5						
162	QUAG	SHUTTLE RD W SIDE	1	20.1	20.1							
163	QUAG	SHUTTLE RD W SIDE	3	26.9	10.2	7.5	9.2					
164	QUAG	SHUTTLE RD W SIDE	2	21.1	9.1	12.0						
165	QUAG	SHUTTLE RD W SIDE	4	53.2	15.4	15.9	12.7	9.3				
166	QUAG	SHUTTLE RD W SIDE	8	47.8	5.3	5.7	8.9	4.8	6.5	6.1	6.2	4.3
167	QUAG	SHUTTLE RD W SIDE	3	26.9	10.4	11.4	5.1					
168	QUAG	SHUTTLE RD W SIDE	4	59.3	14.3	12.0	15.9	17.0				
169	QUAG	SHUTTLE RD W SIDE	1	12.0	12.0							
170	QUAG	SHUTTLE RD W SIDE	1	15.7	15.7							
171	QUAG	SHUTTLE RD W SIDE	3	51.9	10.6	13.0	28.3					
172	QUAG	SHUTTLE RD W SIDE	6	43.1	8.3	7.1	7.3	6.8	7.2	6.5		
173	QUAG	SHUTTLE RD W SIDE	4	35.1	9.4	2.9	5.9	16.9				
174	QUAG	SHUTTLE RD W SIDE	1	7.2	7.2							
175	ACACIA	ENV. ED. CTR.	1	21.1	21.1							
176	ACACIA	ENV. ED. CTR.	1	31.1	31.1							
177	PIRA	ENV. ED. CTR.	1	12.9	12.9							
178	ACACIA	ENV. ED. CTR.	1	22.5	22.5							
179	ACACIA	ENV. ED. CTR.	1	21.3	21.3							
180	ACACIA	ENV. ED. CTR.	1	16.9	16.9							
181	ACACIA	ENV. ED. CTR.	6	23.1	5.4	3.7	4.8	2.3	4.4	2.5		
182	ACACIA	ENV. ED. CTR.	4	11.5	3.6	1.5	2.6	3.9				
183	ACACIA	ENV. ED. CTR.	3	15.3	4.4	5.6	5.4					
184	ACACIA	ENV. ED. CTR.	2	9.1	3.9	5.2						
185	ACACIA	ENV. ED. CTR.	3	21.4	12.7	5.3	3.4					

TAG NO.	SPECIES	LOCATION	NO. STEMS	TOTAL DBH DBH, IN INCHES, EACH STEM SEPARATE						
				DBH	DBH	DBH	DBH	DBH	DBH	DBH
186	ACACIA	ENV. ED. CTR.	2	12.6	8.9	3.7				
187	PIRA	ENV. ED. CTR.	1	12.9	12.9					
188	PIRA	ENV. ED. CTR.	1	11.9	11.9					
189	PIRA	ENV. ED. CTR.	1	9.6	9.6					
190	PIRA	ENV. ED. CTR.	1	14.2	14.2					
191	PIRA	ENV. ED. CTR.	1	15.0	15.0					
192	PIRA	ENV. ED. CTR.	1	13.3	13.3					
193	PIRA	ENV. ED. CTR.	1	17.5	17.5					
194	PIRA	ENV. ED. CTR.	1	13.2	13.2					
195	PIRA	ENV. ED. CTR.	1	31.7	31.7					
196	OLIVE	ENV. ED. CTR.	6	19.8	4.7	2.0	3.1	3.7	2.7	3.6
197	ACACIA	ENV. ED. CTR.	4	16.6	4.1	4.8	4.6	3.1		
198	PIRA	ENV. ED. CTR.	1	16.6	16.6					
199	PIRA	ENV. ED. CTR.	1	23.1	23.1					
200	PIRA	ENV. ED. CTR.	1	18.8	18.8					
201	PIRA	ENV. ED. CTR.	1	60.3	60.3					
202	PIRA	ENV. ED. CTR.	1	55.7	55.7					
203	OLIVE	ENV. ED. CTR.	5	26.2	5.5	4.0	6.7	3.5	6.4	
175	QUAG	SHUTTLE RD W SIDE	3	24.3	4.8	10.4	9.1			
176	QUAG	SHUTTLE RD W SIDE	4	25.5	7.9	3.1	7.0	7.5		
177	QUAG	SHUTTLE RD W SIDE	3	22.8	7.7	10.1	5.0			
178	QUAG	SHUTTLE RD W SIDE	1	12.2	12.2					
179	QUAG	SHUTTLE RD W SIDE	2	18.0	9.7	8.3				
180	QUAG	SHUTTLE RD W SIDE	2	8.6	5.4	3.2				
181	QUAG	SHUTTLE RD W SIDE	2	8.5	4.8	3.8				
182	QUAG	SHUTTLE RD W SIDE	4	17.6	5.9	3.7	3.9	4.1		
183	QUAG	SHUTTLE RD W SIDE	1	9.0	9.0					
184	QUAG	SHUTTLE RD W SIDE	1	8.1	8.1					
185	QUAG	SHUTTLE RD W SIDE	1	12.2	12.2					
186	QUAG	SHUTTLE RD W SIDE	7	94.1	11.5	13.3	14.3	10.4	12.5	12.7 19.5
187	QUAG	SHUTTLE RD W SIDE	1	19.6	19.6					
188	QUAG	SHUTTLE RD W SIDE	5	80.8	8.5	10.9	20.2	16.7	24.4	
189	QUAG	SHUTTLE RD W SIDE	3	40.2	13.9	8.9	17.4			
190	QUAG	SHUTTLE RD W SIDE	3	18.2	6.8	3.0	8.4			
191	QUAG	SHUTTLE RD W SIDE	5	49.2	6.9	7.9	15.0	10.2	9.1	
192	QUAG	SHUTTLE RD W SIDE	6	65.3	14.7	7.8	9.5	9.2	15.2	8.9
193	QUAG	SHUTTLE RD W SIDE	2	4.4	2.8	1.7				
194	QUAG	SHUTTLE RD W SIDE	2	23.8	11.6	12.2				
195	QUAG	SHUTTLE RD W SIDE	1	16.6	16.6					
196	QUAG	SHUTTLE RD W SIDE	4	51.1	18.2	5.4	16.1	11.5		
197	QUAG	SHUTTLE RD W SIDE	1	16.4	16.4					
198	QUAG	SHUTTLE RD W SIDE	4	24.7	7.2	6.7	4.8	6.1		
199	QUAG	SHUTTLE RD W SIDE	3	7.1	2.6	2.0	2.6			
200	QUAG	SHUTTLE RD E SIDE	6	69.8	9.8	10.7	18.9	5.9	11.4	13.0
201-203--NO TAGS IN THIS GROUP										
204	QUAG	SHUTTLE RD E SIDE	4	58.8	16.8	11.8	14.4	15.7		
205	QUAG	SHUTTLE RD E SIDE	1	14.5	14.5					
206	QUAG	SHUTTLE RD E SIDE	3	45.2	12.7	13.1	19.4			
207	QUAG	SHUTTLE RD E SIDE	3	32.9	8.7	12.8	11.5			
208	QUAG	SHUTTLE RD E SIDE	4	47.5	18.3	8.5	6.5	14.3		
209	QUAG	SHUTTLE RD E SIDE	4	48.7	10.6	15.8	11.9	10.4		
210	QUAG	SHUTTLE RD E SIDE	6	80.9	12.0	22.2	12.6	12.3	13.5	8.3
211	QUAG	SHUTTLE RD E SIDE	2	47.7	21.3	26.4				
212	QUAG	SHUTTLE RD E SIDE	4	42.7	8.8	15.2	8.5	10.2		
213	QUAG	SHUTTLE RD E SIDE	3	30.9	10.8	9.8	10.3			
214	QUAG	SHUTTLE RD E SIDE	3	45.0	10.7	12.6	21.7			
215	QUAG	SHUTTLE RD E SIDE	1	4.6	4.6					
216	QUAG	SHUTTLE RD E SIDE	1	40.9	40.9					
217	QUAG	SHUTTLE RD E SIDE	3	47.3	15.0	15.4	17.0			
218	QUAG	SHUTTLE RD E SIDE	3	34.7	10.6	9.9	14.3			
219	QUAG	SHUTTLE RD E SIDE	5	31.7	5.1	4.4	3.7	8.3	10.2	
220	QUAG	1820 EXHIBIT	3	30.3	15.5	2.4	12.4			
221	QUAG	1820 EXHIBIT	2	6.1	3.9	2.2				
222	PRUNUS	1820 EXHIBIT	1	13.0	13.0					

TAG NO.	SPECIES	LOCATION	NO. STEMS	TOTAL DBH, IN INCHES, EACH STEM SEPARATE						
				DBH	DBH	DBH	DBH	DBH	DBH	DBH
223	QUAG	1820 EXHIBIT	1	6.5	6.5					
224	QUAG	1820 EXHIBIT	1	6.5	6.5					
225	QUAG	1820 EXHIBIT	2	13.1	5.3	7.9				
226	QUAG	1820 EXHIBIT	1	13.9	13.9					
227	QUAG	1820 EXHIBIT	4	19.2	6.7	7.6	2.5	2.4		
228	QUAG	1820 EXHIBIT	3	15.2	5.5	3.1	6.5			
229	QUAG	1820 EXHIBIT	1	15.9	15.9					
230	QUAG	1820 EXHIBIT	1	20.7	20.7					
231	QUAG	1820 EXHIBIT	4	28.7	11.8	8.7	6.0	2.2		
232	QUAG	1820 EXHIBIT	1	6.3	6.3					
233	QUAG	1820 EXHIBIT	2	12.8	9.5	3.3				
234	QUAG	1820 EXHIBIT	2	13.1	4.4	8.7				
235	QUAG	1820 EXHIBIT	1	5.7	5.7					
236	QUAG	1820 EXHIBIT	1	9.6	9.6					
237	QUAG	1820 EXHIBIT	1	4.1	4.1					
238	QUAG	1820 EXHIBIT	5	71.1	9.9	17.5	16.9	7.2	19.6	
239	QUAG	1820 EXHIBIT	1	9.4	9.4					
240	QUAG	1820 EXHIBIT	1	14.3	14.3					
241	QUAG	1820 EXHIBIT	1	10.2	10.2					
242	QUAG	1820 EXHIBIT	1	7.4	7.4					
243	QUAG	1820 EXHIBIT	2	10.1	7.0	3.1				
244	QUAG	2ND RAVINE, S	4	41.2	13.2	8.7	14.1	5.3		
245	QUAG	2ND RAVINE, S	4	44.2	14.3	11.1	10.4	8.4		
246	QUAG	2ND RAVINE, S	1	6.3	6.3					
247	QUAG	2ND RAVINE, S	4	37.1	16.3	8.7	6.1	6.0		
248	QUAG	2ND RAVINE, S	1	9.4	9.4					
249	UMCA	2ND RAVINE, S	2	5.3	5.3					TOO SMALL; LESS THAN 9 IN
250	QUAG	2ND RAVINE, S	1	11.1	11.1					
251	UMCA	2ND RAVINE, S	2	15.0	6.5	8.5				
252	QUAG	2ND RAVINE, S	1	12.6	12.6					
253	QUAG	2ND RAVINE, S	1	9.0	9.0					
254	QUAG	2ND RAVINE, S	1	10.2	10.2					
255	QUAG	2ND RAVINE, S	1	6.9	6.9					
256	QUAG	2ND RAVINE, S	1	24.4	24.4					
257	QUAG	2ND RAVINE, S	1	7.4	7.4					
258	UMCA	2ND RAVINE, S	7	68.7	4.6	13.7	8.5	7.0	15.6	11.6 7.6
259	UMCA	2ND RAVINE, S	4	61.1	17.1	14.8	14.6	14.6		
260	QUAG	2ND RAVINE, S	1	11.5	11.5					
261	QUAG	2ND RAVINE, S	1	8.0	8.0					
262	QUAG	2ND RAVINE, S	1	14.3	14.3					
263	QUAG	BISON, E SIDE	5	56.6	10.6	10.7	8.2	12.3	14.8	
264	QUAG	BISON, E SIDE	7	98.3	12.8	20.2	12.3	9.7	11.1	14.2 18.1
265	QUAG	BISON, E SIDE	1	19.2	19.2					
266	QUAG	BISON, E SIDE	1	23.8	23.8					
267	QUAG	BISON, E SIDE	3	61.5	13.4	34.1	14.0			
268	QUAG	BISON, E SIDE	2	40.0	31.1	8.9				
269	QUAG	BISON, E SIDE	1	26.4	26.4					
270	QUAG	BISON, E SIDE	2	28.0	14.4	13.6				
271	QUAG	BISON, E SIDE	1	7.2	7.2					
272	QUAG	BISON, E SIDE	1	14.4	14.4					
273	QUAG	BISON, E SIDE	3	27.5	11.6	12.0	3.9			
274	QUAG	BISON, E SIDE	1	20.9	20.9					
275	QUAG	BISON, E SIDE	2	24.7	11.3	13.4				
276	QUAG	BISON W SIDE	4	42.3	11.9	7.8	11.3	11.3		
277	QUAG	BISON W SIDE	3	29.8	11.8	8.1	9.9			
278	QUAG	BISON W SIDE	2	27.7	20.5	7.2				
279	QUAG	BISON W SIDE	2	27.2	17.2	10.1				
280	QUAG	BISON W SIDE	1	12.6	12.6					
281	QUAG	BISON W SIDE	1	7.5	7.5					
282	QUAG	BISON W SIDE	1	15.4	15.4					
283	QUAG	BISON W SIDE	2	35.4	17.7	17.7				
284	QUAG	BISON W SIDE	1	22.2	22.2					
285	QUAG	BISON W SIDE	1	9.3	9.3					
286	QUAG	BISON W SIDE	1	20.4	20.4					

TAG NO.	SPECIES	LOCATION	NO. STEMS	TOTAL DBH, IN INCHES, EACH STEM SEPARATE			
				DBH	DBH	DBH	DBH
287	QUAG	BISON W SIDE	2	17.0	5.5	11.5	
288	QUAG	BISON W SIDE	3	30.1	8.1	10.4	11.6
289	QUAG	BISON W SIDE	1	12.3	12.3		
290	QUAG	BISON W SIDE	1	11.1	11.1		
291	QUAG	BISON W SIDE	2	21.5	16.9	4.6	
292	QUAG	BISON W SIDE	2	10.6	6.8	3.8	
293	QUAG	BISON W SIDE	2	16.7	12.7	3.9	
294	QUAG	BISON W SIDE	2	10.6	4.9	5.6	
295	QUAG	BISON W SIDE	1	7.1	7.1		
296	QUAG	BISON W SIDE	2	16.0	8.9	7.1	
297	QUAG	BISON W SIDE	2	34.4	16.3	18.2	
298	QUAG	BISON W SIDE	2	17.2	10.7	6.5	
299	QUAG	BISON W SIDE	1	12.2	12.2		
300		NO TAG					
301	QUAG	BISON W SIDE	1	8.9	8.9		
302	QUAG	BISON W SIDE	2	36.1	17.6	18.6	
303	QUAG	BISON W SIDE	1	7.7	7.7		
304	QUAG	BISON W SIDE	2	12.0	5.7	6.3	
305	QUAG	BISON W SIDE	3	16.7	7.6	6.1	3.1
306	QUAG	BISON W SIDE	2	10.3	6.9	3.4	
307	QUAG	BISON W SIDE	1	4.4	4.4		
308	QUAG	BISON W SIDE	2	20.2	10.7	9.4	
309	QUAG	BISON W SIDE	1	11.2	11.2		
310	QUAG	BISON W SIDE	3	20.4	7.1	6.1	7.2
311	QUAG	BISON W SIDE	3	21.8	8.9	9.6	3.4
312	QUAG	BISON W SIDE	3	21.1	6.5	6.8	7.9
313	QUAG	BISON W SIDE	2	13.1	3.3	9.8	
314	QUAG	BISON W SIDE	3	28.0	6.1	10.3	11.6
315	QUAG	BISON W SIDE	2	15.3	7.6	7.6	
316	QUAG	BISON W SIDE	2	15.5	4.8	10.7	
317	QUAG	BISON W SIDE	3	27.0	9.7	11.9	5.5
318	QUAG	BISON W SIDE	3	18.0	5.0	8.9	4.0
319	QUAG	BISON W SIDE	1	8.3	8.3		
320	QUAG	BISON W SIDE	1	5.7	5.7		
321	QUAG	BISON W SIDE	2	33.7	18.6	15.1	
322	QUAG	2ND RAVINE, S	1	15.1	15.1		
323	QUAG	2ND RAVINE, S	4	39.8	15.8	6.2	7.9 9.9
324	QUAG	2ND RAVINE, S	2	13.4	7.7	5.7	
325	QUAG	2ND RAVINE, S	4	35.7	8.2	3.9	15.2 8.5
326	QUAG	2ND RAVINE, S	1	11.1	11.1		
327	QUAG	2ND RAVINE, S	2	32.2	10.6	21.6	
328	QUAG	2ND RAVINE, S	1	11.1	11.1		
329	QUAG	2ND RAVINE, S	1	10.9	10.9		
330	QUAG	2ND RAVINE, S	2	12.0	3.8	8.1	
331	QUAG	2ND RAVINE, S	1	9.3	9.3		
332	QUAG	2ND RAVINE, S	1	24.2	24.2		
333	UMCA	2ND RAVINE, S	1	19.2	19.2		
334	QUAG	2ND RAVINE, S	1	15.2	15.2		
335	QUAG	2ND RAVINE, S	1	7.0	7.0		
336	QUAG	2ND RAVINE, S	2	6.5	4.5	2.0	
337	QUAG	2ND RAVINE, S	1	4.2	4.2		
338	QUAG	2ND RAVINE, S	1	4.4	4.4		
339	QUAG	2ND RAVINE, S	1	15.2	15.2		
340	QUAG	2ND RAVINE, S	1	16.4	16.4		
341	QUAG	2ND RAVINE, S	2	28.7	13.2	15.5	
342	QUAG	2ND RAVINE, S	3	37.1	10.2	20.4	6.5
343	UMCA	2ND RAVINE, S	2	13.1	7.8	5.3	
344	QUAG	2ND RAVINE, S	2	36.6	21.1	15.6	
345	QUAG	2ND RAVINE, S	2	31.3	10.9	20.4	
346	QUAG	2ND RAVINE, S	3	18.3	4.5	8.9	5.0
347	QUAG	2ND RAVINE, S	1	5.8	5.8		
348	QUAG	2ND RAVINE, S	1	19.3	19.3		
349	QUAG	2ND RAVINE, S	1	11.7	11.7		
350	QUAG	2ND RAVINE, S	2	29.2	16.7	12.5	

TAG NO.	SPECIES	LOCATION	NO. STEMS	TOTAL DBH	DBH, IN INCHES, EACH STEM SEPARATE				
351	QUAG	2ND RAVINE, S	1	7.0	7.0				
352	QUAG	2ND RAVINE, S	1	12.2	12.2				
353	QUAG	2ND RAVINE, S	2	5.5	3.8	1.7			
354	QUAG	2ND RAVINE, S	1	4.3	4.3				
355	QUAG	2ND RAVINE, S	1	13.6	13.6				
356	QUAG	2ND RAVINE, S	4	42.7	12.2	9.8	10.0	10.7	
357	QUAG	2ND RAVINE, S	1	29.4	29.4				
358	QUAG	2ND RAVINE, S	2	20.4	10.2	10.2			
359	QUAG	2ND RAVINE, S	1	22.9	22.9				
360	QUAG	2ND RAVINE, S	4	77.2	20.3	16.5	24.9	15.5	
361	QUAG	2ND RAVINE, S	1	10.9	10.9				
362	OLIVE	2ND RAVINE, S	3	13.0	3.0	3.5	6.5		
363	QUAG	2ND RAVINE, S	2	5.7	3.3	2.4			
364	QUAG	2ND RAVINE, S	3	34.3	15.4	10.7	8.1		
365	QUAG	2ND RAVINE, S	2	28.5	14.1	14.4			
366	QUAG	2ND RAVINE, S	2	30.2	17.0	13.2			
367	QUAG	2ND RAVINE, S	3	26.1	14.3	4.6	7.2		
368	QUAG	2ND RAVINE, S	1	13.5	13.5				
369	QUAG	2ND RAVINE, S	2	21.5	12.6	8.9			
370	QUAG	2ND RAVINE, S	3	29.3	13.0	10.1	6.2		
371	QUAG	2ND RAVINE, S	3	25.2	15.1	6.6	3.5		
372	QUAG	2ND RAVINE, S	1	8.7	8.7				
373	QUAG	2ND RAVINE, S	3	29.1	10.0	9.8	9.3		
374	QUAG	2ND RAVINE, S	4	59.5	14.2	15.7	17.9	11.7	
375	QUAG	2ND RAVINE, S	2	20.9	13.5	7.4			
376	QUAG	2ND RAVINE, S	3	20.4	6.1	11.2	3.1		
377	QUAG	2ND RAVINE, S	2	13.8	10.1	3.7			
378	QUAG	2ND RAVINE, S	2	15.2	8.1	7.1			
379	QUAG	2ND RAVINE, S	1	8.6	8.6				
380	QUAG	2ND RAVINE, S	4	50.7	16.9	8.1	12.6	13.1	
381	QUAG	2ND RAVINE, S	1	7.0	7.0				
382	QUAG	2ND RAVINE, S	1	6.4	6.4				
383	QUAG	2ND RAVINE, S	5	60.7	11.0	8.4	16.6	11.6	13.0
384	QUAG	2ND RAVINE, S	1	22.3	22.3				
385	QUAG	2ND RAVINE, S	1	17.5	17.5				
386	QUAG	2ND RAVINE, S	4	21.5	5.9	5.8	7.2	2.6	
387	QUAG	2ND RAVINE, S	2	19.2	11.6	7.6			
388	QUAG	2ND RAVINE, S	4	19.8	8.4	4.5	2.8	4.1	
389	QUAG	2ND RAVINE, S	1	9.7	9.7				
390	QUAG	2ND RAVINE, S	2	42.3	9.1	33.3			
391	QUAG	2ND RAVINE, S	2	5.9	3.1	2.8			
392	QUAG	2ND RAVINE, S	2	24.4	11.0	13.4			
393	QUAG	2ND RAVINE, S	2	19.9	11.3	8.5			
394	QUAG	2ND RAVINE, S	2	15.6	11.5	4.1			
395	QUAG	2ND RAVINE, S	1	4.8	4.8				
396	QUAG	2ND RAVINE, S	1	7.1	7.1				
397	QUAG	2ND RAVINE, S	2	14.2	7.2	6.9			
398	QUAG	2ND RAVINE, S	3	38.1	13.6	14.0	10.5		
399	QUAG	2ND RAVINE, S	1	9.2	9.2				
400	QUAG	BISON, W SIDE	2	21.5	10.0	11.5			
401	QUAG	BISON, W SIDE	1	11.3	11.3				
402	QUAG	BISON, W SIDE	2	3.7	3.7				TOO SMALL; LESS THAN 4 IN DBH
403	QUAG	BISON, W SIDE	2	15.3	8.7	6.6			
404	QUAG	BISON, W SIDE	1	7.8	7.8				
405	QUAG	BISON, W SIDE	1	13.5	13.5				
406	QUAG	BISON, W SIDE	2	10.5	5.0	5.5			
407	QUAG	BISON, W SIDE	1	9.6	9.6				
408	QUAG	BISON, W SIDE	1	6.4	6.4				
409	QUAG	BISON, W SIDE	1	8.9	8.9				
410	QUAG	BISON, W SIDE	2	18.7	8.8	9.8			
411	QUAG	BISON, W SIDE	1	7.1	7.1				
412	QUAG	BISON, W SIDE	1	10.3	10.3				
413	QUAG	BISON, W SIDE	1	15.7	15.7				
414	QUAG	BISON, W SIDE	1	9.1	9.1				

TAG NO.	SPECIES	LOCATION	NO. STEMS	TOTAL DBH	DBH, IN INCHES, EACH STEM SEPARATE			
415	QUAG	BISON, W SIDE	3	16.3	3.0	7.1	6.3	
416	QUAG	BISON, W SIDE	1	16.5	16.5			
417	QUAG	BISON, W SIDE	1	7.6	7.6			
418	QUAG	BISON, W SIDE	1	7.2	7.2			
419	QUAG	BISON, W SIDE	2	32.0	18.8	13.2		
420	QUAG	BISON, W SIDE	1	12.3	12.3			
421	QUAG	BISON, W SIDE	1	13.0	13.0			
422	QUAG	BISON, W SIDE	2	19.1	8.7	10.4		
423	QUAG	BISON, W SIDE	1	11.2	11.2			
424	QUAG	BISON, W SIDE	1	7.9	7.9			
425	QUAG	BISON, W SIDE	2	12.4	8.8	3.6		
426	QUAG	BISON, W SIDE	1	9.8	9.8			
427	QUAG	BISON, W SIDE	1	8.7	8.7			
428	QUAG	BISON, W SIDE	2	18.9	8.1	10.8		
429	QUAG	BISON, W SIDE	1	17.9	17.9			
430	QUAG	BISON, W SIDE	1	8.7	8.7			
431	QUAG	BISON, W SIDE	2	23.9	10.4	13.4		
432	QUAG	BISON, W SIDE	2	3.7	3.7			TOO SMALL; LESS THAN 4 IN DBH
433	QUAG	BISON, W SIDE	1	10.9	10.9			
434	QUAG	BISON, W SIDE	1	17.6	17.6			
435	QUAG	BISON, W SIDE	1	9.1	9.1			
436	QUAG	BISON, W SIDE	1	7.2	7.2			
437	QUAG	BISON, W SIDE	2	13.7	4.9	8.7		
438	QUAG	BISON, W SIDE	2	11.7	7.7	4.0		
439	QUAG	BISON, W SIDE	1	5.0	5.0			
440	QUAG	BISON, W SIDE	1	8.9	8.9			
441	QUAG	BISON, W SIDE	1	16.8	16.8			
442	QUAG	BISON, W SIDE	1	8.9	8.9			
443	QUAG	BISON, W SIDE	1	16.8	16.8			
444	QUAG	BISON, W SIDE	2	20.0	10.3	9.7		
445	QUAG	BISON, W SIDE	4	64.3	8.4	14.1	18.9	22.9
446	QUAG	BISON, W SIDE	2	35.3	16.3	19.1		
447	QUAG	BISON, W SIDE	1	11.7	11.7			
448	QUAG	BISON, W SIDE	1	11.5	11.5			
449	QUAG	BISON, W SIDE	3	35.2	13.2	6.4	15.6	
450	QUAG	BISON, W SIDE	1	15.7	15.7			
451	QUAG	BISON, W SIDE	2	14.9	6.7	8.2		
452	QUAG	BISON, W SIDE	2	33.4	12.5	20.9		
453	QUAG	BISON, W SIDE	1	13.2	13.2			
454	QUAG	BISON, W SIDE	1	20.1	20.1			
455	QUAG	BISON, W SIDE	2	27.7	10.8	16.9		
456	QUAG	BISON, W SIDE	1	16.6	16.6			
457	QUAG	BISON, IN BROOM	3	38.0	16.1	11.2	10.6	
458	QUAG	BISON, IN BROOM	3	38.3	10.3	10.0	18.1	
459	QUAG	BISON, W SIDE	3	34.3	11.9	10.2	12.2	
460	QUAG	BISON, W SIDE	1	9.4	9.4			
461	QUAG	BISON, W SIDE	1	9.6	9.6			
462	QUAG	BISON, W SIDE	2	35.7	16.8	18.9		
463	QUAG	BISON, W SIDE	1	12.5	12.5			
464	QUAG	BISON, W SIDE	2	15.1	9.3	5.9		
465	QUAG	BISON, W SIDE	2	21.4	9.1	12.3		
466	QUAG	BISON, W SIDE	2	21.3	12.7	8.6		
467	QUAG	BISON, W SIDE	1	12.7	12.7			
468	QUAG	BISON, W SIDE	3	64.6	20.6	18.6	25.3	
469	QUAG	BISON, W, BROOM	2	12.7	7.6	5.1		
470	QUAG	BISON, ON ROAD	1	18.4	18.4			
471	QUAG	BISON, ON ROAD	4	61.4	9.8	14.5	15.5	21.5
472	QUAG	BISON, ON ROAD	4	67.5	10.8	13.1	18.7	24.9
473	QUAG	BISON, ON ROAD	1	25.6	25.6			
474	ACACIA	TOP OF SKY RIDE	1	16.9	16.9			
475	ACACIA	TOP OF SKY RIDE	1	11.5	11.5			
476	QUAG	BISON, W SIDE	1	18.2	18.2			
477	QUAG	BISON, W SIDE	1	11.4	11.4			
478	QUAG	BISON, W SIDE	1	13.7	13.7			

TAG NO.	SPECIES	LOCATION	NO.	TOTAL										
			STEMS	DBH	DBH, IN INCHES, EACH STEM SEPARATE									
479	QUAG	BISON, W SIDE	1	14.6	14.6									
480	QUAG	BISON, W SIDE	1	23.6	23.6									
481	QUAG	BISON, W SIDE	6	71.3	10.6	20.2	12.9	10.0	7.1	10.4				
482	ACACIA	TOP OF SKY RIDE	4	17.8	4.7	5.1	4.0	3.9						
483	ACACIA	TOP OF SKY RIDE	10	36.8	3.8	4.0	5.7	4.4	2.6	2.9	2.2	4.8	2.5	3.9
484	PIRA	TOP OF SKY RIDE	1	23.0	23.0									
485	PIRA	TOP OF SKY RIDE	1	10.7	10.7									
486	PIRA	TOP OF SKY RIDE	1	19.4	19.4									
487	PIRA	TOP OF SKY RIDE	2	26.1	15.6	10.5								
488	PIRA	TOP OF SKY RIDE	1	12.4	12.4									
489	PIRA	TOP OF SKY RIDE	1	12.2	12.2									
490	PIRA	TOP OF SKY RIDE	2	18.6	10.3	8.3								
491	PIRA	TOP OF SKY RIDE	2	17.9	17.9									
492	ACACIA	TOP OF SKY RIDE	4	18.1	4.4	3.3	4.7	5.7						
493	ACACIA	TOP OF SKY RIDE	2	12.5	6.3	6.3								
494	ACACIA	TOP OF SKY RIDE	1	10.6	10.6									
495	OLIVE	ENV.ED.CTR.	3	14.2	5.1	6.5	2.6							
496	ACACIA	ENV.ED.CTR.	2	9.1	4.4	4.7								
497	ACACIA	ENV.ED.CTR.	7	25.4	5.9	2.3	4.3	2.0	4.3	3.9	2.7			
498	ACACIA	ENV.ED.CTR.	6	21.2	3.2	4.0	2.2	5.5	3.1	3.1				
499	QUAG	ENV.ED.CTR.	1	24.0	24.0									
500	ACACIA	ENV.ED.CTR.	1	9.4	9.4									
501	QUAG	UPR OLD BISON ENCL	7	68.8	8.0	8.3	6.3	10.4	18.3	6.5	11.0			
502	QUAG	UPR OLD BISON ENCL	2	28.9	10.2	18.7								
503	QUAG	UPR OLD BISON ENCL	4	36.2	6.4	9.3	13.7	6.8						
504	QUAG	NEW BISON ENCL	4	67.3	22.2	18.8	15.1	11.2						
505	QUAG	NEW BISON ENCL	4	48.7	13.1	14.2	9.2	12.2						
506	QUAG	NEW BISON ENCL	1	21.5	21.5									
507	QUAG	NEW BISON ENCL	2	22.1	12.9	9.2								
508	QUAG	NEW BISON ENCL	2	23.5	9.7	13.8								
509	QUAG	NEW BISON ENCL	4	42.2	7.5	12.9	6.1	15.7						
510	QUAG	NEW BISON ENCL	2	17.1	8.3	8.8								
511	QUAG	NEW BISON ENCL	2	27.4	8.9	18.5								
512	UMCA	NEW BISON ENCL	3	18.7	7.3	5.5	5.9							
513	QUAG	NEW BISON ENCL	3	32.5	12.2	13.6	6.7							
514	QUAG	NEW BISON ENCL	3	54.1	8.9	14.5	20.7							
515	QUAG	NEW BISON ENCL	3	15.1	5.4	6.7	3.0							
516	QUAG	NEW BISON ENCL	3	23.3	8.6	7.6	7.1							
517	QUAG	NEW BISON ENCL	2	17.5	7.9	9.6								
518	QUAG	NEW BISON ENCL	2	44.7	35.8	8.9								
519	QUAG	NEW BISON ENCL	2	32.5	17.8	14.7								
520	QUAG	NEW BISON ENCL	9	100.2	7.1	8.5	4.3	11.3	12.8	11.1	15.4	15.5	14.2	
521	QUAG	NEW BISON ENCL	3	41.4	11.9	14.8	14.7							
522	QUAG	NEW BISON ENCL	2	21.2	10.0	11.2								
523	QUAG	NEW BISON ENCL	3	32.4	13.5	9.1	9.8							
524	QUAG	NEW BISON ENCL	1	20.5	20.5									
525	QUAG	NEW BISON ENCL	3	41.7	17.2	11.8	12.7							
526	QUAG	NEW BISON ENCL	2	33.6	16.8	16.8								
527	QUAG	NEW BISON ENCL	2	29.3	17.1	12.2								
528	QUAG	NEW BISON ENCL	6	18.8	2.3	1.8	4.1	4.1	4.7	1.8				
529	QUAG	NEW BISON ENCL	1	6.0	6.0									
530	QUAG	NEW BISON ENCL	2	32	21.1	10.9								
531	QUAG	NEW BISON ENCL	2	26.2	9.3	16.9								
532	QUAG	NEW BISON ENCL	1	9.7	9.7									
533	QUAG	NEW BISON ENCL	2	20.0	11.0	9.0								
534	QUAG	NEW BISON ENCL	3	26.6	10.2	9.5	6.9							
535	QUAG	NEW BISON ENCL	3	26.5	7.6	9.1	9.8							
536	QUAG	NEW BISON ENCL	5	73.6	7.7	14.7	11.1	13.3	26.8					
537	QUAG	NEW BISON ENCL	2	27.2	14.6	12.6								
538	QUAG	NEW BISON ENCL	2	9.2	6.6	2.6								
539	QUAG	NEW BISON ENCL	2	13.9	7.2	6.7								
540	QUAG	NEW BISON ENCL	3	26.1	10.8	7.0	8.3							
541	QUAG	2ND RAVINE, BISON ENCL	1	8.5	8.5									
542	QUAG	2ND RAVINE, BISON ENCL	1	6.6	6.6									

TAG NO.	SPECIES	LOCATION	NO. STEMS	TOTAL DBH	DBH, IN INCHES, EACH STEM SEPARATE			
543	QUAG	2ND RAVINE, BISON ENCL	1	7.0	7.0			
544	QUAG	2ND RAVINE, BISON ENCL	1	4.1	4.1			
545	UMCA	2ND RAVINE, BISON ENCL	1	7.2	7.2			TOO SMALL; LESS THAN 9 IN. DBH
546	QUAG	2ND RAVINE, BISON ENCL	2	21.4	8.5	12.9		
547	QUAG	2ND RAVINE, BISON ENCL	3	54.9	24.4	14.3	16.2	
548	QUAG	2ND RAVINE, BISON ENCL	2	15.7	7.9	7.8		
549	QUAG	2ND RAVINE, BISON ENCL	1	4.2	4.2			
550	QUAG	2ND RAVINE, BISON ENCL	1	8.1	8.1			
551	QUAG	2ND RAVINE, BISON ENCL	3	19.7	9.9	3.7	6.1	
552	QUAG	2ND RAVINE, BISON ENCL	1	17.5	17.5			
553	QUAG	2ND RAVINE, BISON ENCL	2	22.7	18.1	4.6		
554	QUAG	2ND RAVINE, BISON ENCL	2	10.3	5.9	4.4		
555	QUAG	CTR RAVINE, BISON ENCL	1	13.9	13.9			
556	QUAG	CTR RAVINE, BISON ENCL	1	10.8	10.8			
557	QUAG	CTR RAVINE, BISON ENCL	2	9.6	4.9	4.7		
558	QUAG	CTR RAVINE, BISON ENCL	1	14.5	14.5			
559	QUAG	CTR RAVINE, BISON ENCL	3	21.0	11.2	4.1	5.7	
560	QUAG	CTR RAVINE, BISON ENCL	1	4.3	4.3			
561	QUAG	CTR RAVINE, BISON ENCL	3	8.9	2.2	3.5	3.2	
562	QUAG	CTR RAVINE, BISON ENCL	2	20.7	10.3	10.4		
563	QUAG	CTR RAVINE, BISON ENCL	1	4.2	4.2			
564	QUAG	UPPER, N END BISON	2	16.8	8.0	8.8		
565	QUAG	UPPER, N END BISON	2	21.6	9.1	12.5		
566	QUAG	UPPER, N END BISON	1	8.7	8.7			
567	QUAG	UPPER, N END BISON	2	33.4	16.1	17.3		
568	QUAG	UPPER, N END BISON	3	38.6	12.4	11.5	14.7	
569	QUAG	UPPER, N END BISON	2	28.5	14.6	13.9		
570	QUAG	UPPER, N END BISON	1	12.5	12.5			
571	QUAG	UPPER, N END BISON	1	18.5	18.5			
572	QUAG	UPPER, N END BISON	1	13.3	13.3			
573	QUAG	UPPER, N END BISON	1	12.9	12.9			
574	QUAG	UPPER, N END BISON	1	14.3	14.3			
575	QUAG	UPPER, N END BISON	1	16.8	16.8			
576	QUAG	UPPER, N END BISON	3	30.3	12.0	10.2	8.1	
577	QUAG	UPPER, N END BISON	1	4.4	4.4			
578	QUAG	UPPER, N END BISON	2	32.0	17.6	14.4		
579	QUAG	UPPER, N END BISON	1	14.8	14.8			
580	QUAG	UPPER, N END BISON	2	16.2	9.2	7.0		
581	QUAG	UPPER, N END BISON	4	30.1	9.1	6.2	9.1	5.7
582	QUAG	UPPER, N END BISON	1	20.0	20.0			
583	QUAG	UPPER, N END BISON	4	53.5	12.4	19.5	8.4	11.4
584	QUAG	UPPER, N END BISON	1	5.9	5.9			
585	QUAG	UPPER, N END BISON	3	22.5	7.0	6.6	8.9	
586	UMCA	UPPER, N END BISON	1	5.9	5.9			TOO SMALL; LESS THAN 9 IN. DBH
587	QUAG	UPPER, N END BISON	3	28.7	24.0	2.7	2.0	
588	QUAG	SHUTTLE ROAD	3	23.5	9.4	9.4	4.7	
589	QUAG	SHUTTLE ROAD	4	26.1	7.2	6.6	6.1	6.2
590	QUAG	SHUTTLE ROAD	2	5.9	3.5	2.4		
591	QUAG	SHUTTLE ROAD	4	21.5	3.9	8.5	5.0	4.1
592	QUAG	SHUTTLE ROAD	3	29.4	8.9	5.9	14.6	
593	QUAG	OFF EXHB BREEDING AREA	1	18.9	18.9			
594	QUAG	OFF EXHB BREEDING AREA	2	25.2	12.6	12.6		
595	QUAG	WOLF EXHB	4	19.0	6.2	4.7	3.6	4.5
596	QUAG	WOLF EXHB	1	11.1	11.1			
597	QUAG	WOLF EXHB	2	16.4	12.7	3.7		
598	QUAG	WOLF EXHB	1	4.1	4.1			
599	QUAG	WOLF EXHB	4	25.4	14.2	4.6	2.0	4.6
600	QUAG	OFF EXHB BREEDING AREA	1	11.7	11.7			
601	QUAG	OFF EXHB BREEDING AREA	1	7.4	7.4			
602	QUAG	OFF EXHB BREEDING AREA	1	7.8	7.8			
603	QUAG	OFF EXHB BREEDING AREA	1	10.4	10.4			
604	QUAG	OFF EXHB BREEDING AREA	2	21.3	10.7	10.6		
605	QUAG	OFF EXHB BREEDING AREA	1	11.3	11.3			
606	QUAG	OFF EXHB BREEDING AREA	2	12.4	6.0	16.4		

TAG NO.	SPECIES	LOCATION	NO. STEMS	TOTAL DBH, IN INCHES, EACH STEM SEPARATE				
				DBH	DBH	DBH	DBH	DBH
607	QUAG	OFF EXHB BREEDING AREA	1	12.5	12.5			
608	QUAG	OFF EXHB BREEDING AREA	1	11.1	11.1			
609	QUAG	OFF EXHB BREEDING AREA	1	7.2	7.2			
610	QUAG	OFF EXHB BREEDING AREA	1	8.5	4.4	4.1		
611	QUAG	OFF EXHB BREEDING AREA	1	8.0	8.0			
612	QUAG	OFF EXHB BREEDING AREA	1	7.2	7.2			
613	QUAG	OFF EXHB BREEDING AREA	1	14.4	14.4			
614	QUAG	OFF EXHB BREEDING AREA	1	4.6	4.6			
615	QUAG	OFF EXHB BREEDING AREA	1	8.4	8.4			
616	QUAG	OFF EXHB BREEDING AREA	3	83.0	27.0	35.0	21.0	
617	QUAG	WOLF EXHB	1	7.8	7.8			
618	QUAG	WOLF EXHB	2	15.4	7.4	8.0		
619	SAME	OFF EXHIBIT BREEDING	1	8.5	8.5			TOO SMALL; LESS THAN 9 IN. DBH
620	QUAG	OFF EXHIBIT BREEDING	3	20.3	7.5	7.5	5.3	
621	QUAG	OFF EXHIBIT BREEDING	2	12.0	7.4	4.6		
622	UMCA	OFF EXHIBIT BREEDING	1	11.9	11.9			
623	QUAG	OFF EXHIBIT BREEDING	3	23.6	6.8	7.7	9.1	
624	QUAG	OFF EXHIBIT BREEDING	2	20.7	10.9	9.8		
625	QUAG	WOLF EXHB	2	6.3	4.1	2.2		
626	QUAG	WOLF EXHB	3	11.2	6.5	1.9	2.8	
627	QUAG	WOLF EXHB	1	3.5	3.5			TOO SMALL; LESS THAN 4 IN. DBH
628	QUAG	INTERPRETIVE CENTER	3	8.0	4.1	2.1	1.8	
629	QUAG	INTERPRETIVE CENTER	2	8.6	4.5	4.1		
630	QUAG	INTERPRETIVE CENTER	3	6.3	2.6	1.6	2.1	
631	QUAG	INTREPRETIVE CENTER	2	5.8	2.9	2.9		
632	QUAG	INTREPRETIVE CENTER	3	7.3	3.1	2.2	2.0	
633	QUAG	WOLF EXHB	2	10.1	5.0	5.1		
634	QUAG	WOLF EXHB	2	8.4	4.3	4.1		
635	QUAG	WOLF EXHB	1	3.2	3.2			TOO SMALL, LESS THAN 4 IN. DBH
636	QUAG	WOLF EXHB	3	10.7	3.1	4.5	3.1	
637	QUAG	ACCESS ROAD	3	7.2	1.8	2.2	3.2	
638	QUAG	ACCESS ROAD	3	49.9	16.1	12.1	21.7	
639	QUAG	ACCESS ROAD	2	17.8	6.6	11.2		
640	QUAG	ACCESS ROAD	3	18.1	4.7	4.8	8.6	
641	QUAG	ACCESS ROAD	2	23.1	14.4	8.7		
642	QUAG	ACCESS ROAD	4	28.6	7.0	9.1	3.7	8.8
643	QUAG	ACCESS ROAD	1	13.7	13.7			
644	QUAG	ACCESS ROAD	1	23.2	23.2			
645	QUAG	ACCESS ROAD	5	39.8	9.2	9.1	5.5	6.4
646	QUAG	ACCESS ROAD	5	59.0	8.5	11.9	16.1	12.6
647	QUAG	ACCESS ROAD	1	13.4	13.4			
648	QUAG	ACCESS ROAD	3	30.8	11.4	12.5	6.9	
649	QUAG	ACCESS ROAD	3	18.5	6.6	5.0	6.9	
650	QUAG	ACCESS ROAD	3	40.5	11.0	14.2	15.3	
651	QUAG	ACCESS ROAD	1	12.2	12.2			
652	QUAG	ACCESS ROAD	3	35.2	11.2	12.8	11.2	
653	QUAG	ACCESS ROAD	1	17.1	17.1			
654	QUAG	ACCESS RD ABV BISON	1	11.9	11.9			
655	QUAG	ACCESS RD ABV BISON	2	22.7	12.2	10.5		
656	QUAG	ACCESS RD ABV BISON	1	15.4	15.4			
657	QUAG	ACCESS RD ABV BISON	1	9.4	9.4			
658	QUAG	ACCESS RD ABV BISON	2	28.1	12.8	15.3		
659	QUAG	ACCESS RD ABV BISON	1	12.7	12.7			
660	QUAG	ACCESS RD ABV BISON	1	9.6	9.6			
661	QUAG	ACCESS RD ABV BISON	1	4.3	4.3			
662	QUAG	ACCESS RD ABV BISON	1	8.8	8.8			
663	QUAG	ACCESS RD ABV BISON	1	7.8	7.8			
664	QUAG	ACCESS RD ABV BISON	4	39.0	7.8	9.4	13.3	8.5
665	QUAG	ACCESS RD ABV BISON	1	7.5	7.5			
666	QUAG	ACCESS RD ABV BISON	5	57.0	14.6	12.1	13.8	7.8
667	QUAG	ACCESS RD ABV BISON	1	12.5	12.5			8.7
668	QUAG	ACCESS RD ABV BISON	1	7.2	7.2			
669	QUAG	ACCESS RD ABV BISON	1	10.6	10.6			
670	QUAG	ACCESS RD ABV BISON	1	12.7	12.7			

TAG NO.	SPECIES	LOCATION	NO. STEMS	TOTAL			
				DBH	DBH, IN INCHES, EACH STEM SEPARATE		
671	QUAG	ACCESS RD ABV BISON	1	9.2	9.2		
672	QUAG	ACCESS RD ABV BISON	3	35.2	14.2	12.2	8.8
673	QUAG	ACCESS RD ABV BISON	3	40.3	9.1	10.6	9.6 11.0
674	QUAG	ACCESS RD ABV BISON	2	25.1	11.6	13.5	
675	QUAG	ACCESS RD ABV BISON	1	12.0	12.0		
676	QUAG	ACCESS RD ABV BISON	1	8.4	8.4		
677	QUAG	ACCESS RD ABV BISON	1	9.6	9.6		
678	QUAG	ACCESS RD ABV BISON	3	38.7	12.6	9.2	16.9
679	QUAG	ACCESS RD ABV BISON	1	8.7	8.7		
680	QUAG	ACCESS RD ABV BISON	1	16.9	16.9		
681	QUAG	ACCESS RD ABV BISON	1	18.2	18.2		
682	QUAG	UPR ACC. RD ABV BISON	2	20.0	11.7	8.3	
683	QUAG	UPR ACC. RD ABV BISON	1	14.9	14.9		
684	QUAG	UPR ACC. RD ABV BISON	2	11.7	7.5	4.2	
685	QUAG	UPR ACC. RD ABV BISON	3	31.3	6.5	11.1	13.7
686	QUAG	UPR ACC. RD ABV BISON	1	7.0	7.0		
687	QUAG	UPR ACC. RD ABV BISON	3	30.7	11.7	8.1	10.9
688	QUAG	UPR ACC. RD ABV BISON	1	10.5	10.5		
689	QUAG	UPR ACC. RD ABV BISON	1	11.1	11.1		
690	QUAG	UPR ACC. RD ABV BISON	1	31.6	31.6		

PRELIMINARY TREE REMOVAL LIST- CALIFORNIA 1820 EXHIBIT (2/3/97)

TAG NO.	SPECIES	COMMON NAME	LOCATION	TOTAL DBH	
1	Pinus Radiata	Monterey Pine	Paved Access	60.4"	
2	Acacia	Acacia	Paved Access	10.4"	
3	Acacia	Acacia	Paved Access	8.7"	TOO SMALL; LESS THAN 9 IN. DBH
4	Acacia	Acacia	Paved Access	15.2"	
5	Pinus Radiata	Monterey Pine	Paved Access	23.2"	
6	Pinus Radiata	Monterey Pine	Paved Access	35.8"	
7	Quercus Agrifolia	Coast Live Oak	Paved Access	26.2"	
8	Prunus Sp-Probably P. Dulcis	Almond	Paved Access	12.4"	
9	Pinus Radiata	Monterey Pine	Paved Access	13.7"	
10	Pinus Radiata	Monterey Pine	Paved Access	19.6"	
11	Pinus Radiata	Monterey Pine	Paved Access	58.5"	
14	Quercus Agrifolia	Coast Live Oak	Shuttle Road	9.7"	
15	Quercus Agrifolia	Coast Live Oak	Shuttle Road	3.4"	TOO SMALL; LESS THAN 4 IN. DBH
16	Pinus Coulteri	Coulter Pine	Shuttle Road	9.7"	
17	Pinus Coulteri	Coulter Pine	Shuttle Road	12.6"	
18	Pinus Radiata	Monterey Pine	Shuttle Road	9.7"	
19	Pinus Radiata	Monterey Pine	Shuttle Road	30.6"	
20	Pinus Radiata	Monterey Pine	Shuttle Road	11.7"	
21	Pinus Radiata	Monterey Pine	Shuttle Road	10.7"	
22	Pinus Radiata	Monterey Pine	Shuttle Road	17.3"	
23	Pinus Radiata	Monterey Pine	Shuttle Road	10.2"	
24	Pinus Radiata	Monterey Pine	Shuttle Road	14.6"	
25	Pinus Radiata	Monterey Pine	Shuttle Road	20.2"	
26	Pinus Radiata	Monterey Pine	Shuttle Road	19.9"	
27	Pinus Radiata	Monterey Pine	Shuttle Road	10.9"	
28	Quercus Agrifolia	Coast Live Oak	Shuttle Road	6.6"	
29	Pinus Radiata	Monterey Pine	Shuttle Road	19"	
30	Pinus Radiata	Monterey Pine	Shuttle Road	15.5"	
31	Quercus Agrifolia	Coast Live Oak	Shuttle Road	11.7"	
32	Pinus Radiata	Monterey Pine	Shuttle Road	22.9"	
33	Quercus Agrifolia	Coast Live Oak	Shuttle Road	20.7"	
41	Quercus Agrifolia	Coast Live Oak	Shuttle Road	36.6"	
42	Quercus Agrifolia	Coast Live Oak	Shuttle Road	16.4"	
43	Quercus Agrifolia	Coast Live Oak	Shuttle Road	17"	
105	Quercus Agrifolia	Coast Live Oak	Shuttle Road	10.4"	
106	Quercus Agrifolia	Coast Live Oak	Shuttle Road	12"	
107	Quercus Agrifolia	Coast Live Oak	Shuttle Road	31.9"	
108	Quercus Agrifolia	Coast Live Oak	Shuttle Road	13.5"	
109	Quercus Agrifolia	Coast Live Oak	Shuttle Road	20.6"	
110	Quercus Agrifolia	Coast Live Oak	Shuttle Road	17.7"	
121	Quercus Agrifolia	Coast Live Oak	Shuttle Road	29.9"	
122	Quercus Agrifolia	Coast Live Oak	Shuttle Road	5.7"	
123	Quercus Agrifolia	Coast Live Oak	Shuttle Road	19.8"	
124	Quercus Agrifolia	Coast Live Oak	Shuttle Road	35.4"	
125	Quercus Agrifolia	Coast Live Oak	Shuttle Road	15.6"	
126	Quercus Agrifolia	Coast Live Oak	Shuttle Road	48.3"	
127	Quercus Agrifolia	Coast Live Oak	Shuttle Road	19.8"	
128	Quercus Agrifolia	Coast Live Oak	Shuttle Road	20.3"	
129	Quercus Agrifolia	Coast Live Oak	Shuttle Road	13.9"	
130	Quercus Agrifolia	Coast Live Oak	Shuttle Road	10.6"	
131	Quercus Agrifolia	Coast Live Oak	Shuttle Road	31.6"	
132	Quercus Agrifolia	Coast Live Oak	Shuttle Road	10.4"	
133	Quercus Agrifolia	Coast Live Oak	Shuttle Road	16.1"	
134	Quercus Agrifolia	Coast Live Oak	Shuttle Road	14.6"	
135	Quercus Agrifolia	Coast Live Oak	Shuttle Road	8.5"	

PRELIMINARY TREE REMOVAL LIST- CALIFORNIA 1820 EXHIBIT (2/3/97)

136	Quercus Agrifolia	Coast Live Oak	Shuttle Road	28.3"	
137	Quercus Agrifolia	Coast Live Oak	Shuttle Road	42.7"	
138	Quercus Agrifolia	Coast Live Oak	Shuttle Road	15.0"	
141	Quercus Agrifolia	Coast Live Oak	Shuttle Road	12.4"	
150	Quercus Agrifolia	Coast Live Oak	Shuttle Road	19.5"	
166	Quercus Agrifolia	Coast Live Oak	Shuttle Road	47.8"	
167	Quercus Agrifolia	Coast Live Oak	Shuttle Road	26.9"	
168	Quercus Agrifolia	Coast Live Oak	Shuttle Road	59.3"	
173	Quercus Agrifolia	Coast Live Oak	Shuttle Road	35.1"	
174	Quercus Agrifolia	Coast Live Oak	Shuttle Road	7.2"	
186	Quercus Agrifolia	Coast Live Oak	Shuttle Road	94.1"	
187	Quercus Agrifolia	Coast Live Oak	Shuttle Road	19.6"	
200	Quercus Agrifolia	Coast Live Oak	Shuttle Road	69.8"	
204	Quercus Agrifolia	Coast Live Oak	Shuttle Road	58.8"	
205	Quercus Agrifolia	Coast Live Oak	Shuttle Road	14.5"	
206	Quercus Agrifolia	Coast Live Oak	Shuttle Road	45.2"	
207	Quercus Agrifolia	Coast Live Oak	Shuttle Road	32.9"	
212	Quercus Agrifolia	Coast Live Oak	Shuttle Road	42.7"	
213	Quercus Agrifolia	Coast Live Oak	Shuttle Road	30.9"	
218	Quercus Agrifolia	Coast Live Oak	Shuttle Road	34.7"	
219	Quercus Agrifolia	Coast Live Oak	Shuttle Road	31.7"	
264	Quercus Agrifolia	Coast Live Oak	Bison, E. Side	98.3"	
305	Quercus Agrifolia	Coast Live Oak	Bison, W. Side	16.7"	
469	Quercus Agrifolia	Coast Live Oak	Bison, W. Side	12.7"	
470	Quercus Agrifolia	Coast Live Oak	Bison, On Road	18.4"	
473	Quercus Agrifolia	Coast Live Oak	Shuttle Road	25.6"	
474	Acacia	Acacia	Shuttle Road	16.9"	
475	Acacia	Acacia	Shuttle Road	11.5"	
481	Quercus Agrifolia	Coast Live Oak	Bison, W. Side	71.3"	
588	Quercus Agrifolia	Coast Live Oak	Upper,N.End Bison	23.5"	
589	Quercus Agrifolia	Coast Live Oak	Upper,N.End Bison	26.1"	
590	Quercus Agrifolia	Coast Live Oak	Upper,N.End Bison	5.9"	
591	Quercus Agrifolia	Coast Live Oak	Upper, N.End Bison	21.5"	
592	Quercus Agrifolia	Coast Live Oak	Upper,N.End Bison	29.4"	
593	Quercus Agrifolia	Coast Live Oak	Upper,N.End Bison	18.9"	
594	Quercus Agrifolia	Coast Live Oak	Upper,N.End Bison	25.2"	
595	Quercus Agrifolia	Coast Live Oak	Upper,N.End Bison	19.0"	
596	Quercus Agrifolia	Coast Live Oak	Upper,N.End Bison	11.1"	
597	Quercus Agrifolia	Coast Live Oak	Upper,N.End Bison	16.4"	
598	Quercus Agrifolia	Coast Live Oak	Upper,N.End Bison	4.1"	
623	Quercus Agrifolia	Coast Live Oak	Off Exhibit Breeding	23.6"	
624	Quercus Agrifolia	Coast Live Oak	Off Exhibit Breeding	20.7"	
633	Quercus Agrifolia	Coast Live Oak	Wolf Exhibit	10.1"	
634	Quercus Agrifolia	Coast Live Oak	Wolf Exhibit	8.4"	
635	Quercus Agrifolia	Coast Live Oak	Wolf Exhibit	3.2"	TOO SMALL; LESS THAN 4 IN. DBH
636	Quercus Agrifolia	Coast Live Oak	Wolf Exhibit	10.7"	