

AGRICULTURAL EXTENSION LABORATORY
REPORT OF PLANT TISSUE ANALYSIS
FEED QUALITY

County: Kern-San Luis Obispo
Submitted by: McKell

No. F-5035/146 - R
Date submitted: 12-20-67
Date reported: 5-13-68

Identification: Atriplex Polycarpa - Carl Wisselman (McKittrick, Calif)

Sample No.	Description	DM	N	Prot.	Ash	Fat	Fiber 1	Fiber 2	NFE	Ca	P	Mo
1	Leaves (L.)	1	11-1-66	19.3	21.2	2.7	10.0	46.8	1.02	1.02	0.14	0.07
2	New stems(N.S.)	1	"	11.4	8.6	1.3	35.8	42.9	0.83	0.07	0.06	0.06
3	Old stems(O.S.)	4	"	9.8	6.7	0.5	41.5	41.5	0.70	0.07	0.06	0.06
4	"	1	"	8.5	5.9	0.9	43.0	41.7	0.80	0.07	0.07	0.07
5	N.S.	2	"	12.5	5.4	2.2	30.4	49.5	0.70	0.10	0.10	0.10
6	L.	2	"	18.3	22.1	3.5	10.5	45.6	0.80	0.13	0.13	0.13
7	Seed	-	"	19.6	24.1	3.9	9.0	43.4	0.80	0.20	0.20	0.20
8	O.S.	2	"	9.9	6.7	1.2	41.4	40.8	0.77	0.07	0.07	0.07
9	Leaves	4	"	20.2	22.9	2.4	8.3	46.2	1.1	0.13	0.13	0.13
10	N.S.	4	"	15.1	13.4	7.3	21.2	43.0	*	*	*	*
11	N.S.	3	"	13.8	12.1	8.1	26.0	40.0	0.68	0.13	0.13	0.13
12	L.	3	"	19.9	24.5	2.8	12.3	40.5	0.85	0.21	0.21	0.21
13	O.S.	3	"	12.1	6.5	1.5	42.8	37.1	0.62	0.07	0.07	0.07
14	New Growth	G.H.	"	28.6	15.1	2.6	14.0	39.7	0.90	0.59	0.59	0.59
15	N.S.	4	12-3-66	13.3	10.6	1.4	28.3	46.4	0.95	0.12	0.12	0.12
16	O.S.	3	"	9.1	5.6	1.5	47.0	36.8	0.63	0.08	0.08	0.08
17	L.	4	"	20.4	19.8	2.9	10.3	46.6	1.25	0.15	0.15	0.15
18	L.	3	"	18.0	19.0	2.9	11.1	49.0	1.18	0.22	0.22	0.22
19	O.S.	4	"	8.5	5.6	1.1	44.3	40.5	0.69	0.07	0.07	0.07
20	O.S.	1	"	7.8	6.1	1.1	43.8	41.2	1.00	0.06	0.06	0.06
21	L.	2	"	17.6	17.0	3.6	10.3	51.5	0.89	0.18	0.18	0.18
22	L.	1	"	19.9	17.4	3.3	10.8	48.6	1.22	0.19	0.19	0.19
23	O.S.	2	"	8.1	5.5	1.3	44.8	40.3	0.70	0.07	0.07	0.07
24	N.S.	3	"	10.4	8.7	1.9	36.8	42.2	0.73	0.12	0.12	0.12
25	N.S.	1	"	10.8	9.6	2.3	33.2	44.1	1.02	0.09	0.09	0.09

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26	2 N.S.	12-3-66	11.1	8.3	2.5	31.0	47.1	0.87	0.11	0.71	0.95	0.71
27	G.H.I	11-9-66	27.9	15.8	1.9	12.3	42.1	0.97	0.57	0.71	0.95	0.71
28	"	12-3-66	28.1	14.9	2.4	11.1	43.5	0.97	0.57	0.71	0.95	0.71
29	G.H.O.	"	26.4	13.2	1.4	13.5	45.5	1.00	0.56	0.71	0.95	0.71
30	4 O.S.	12-30-66	9.5	5.3	0.6	44.4	39.9	0.65	0.07	0.07	0.07	0.07
31	2 O.S.	"	8.9	5.5	0.7	45.0	40.5	1.07	0.05	0.05	0.05	0.05
32	1 "	"	8.1	6.0	0.8	44.6	40.5	1.07	0.05	0.05	0.05	0.05
33	3 "	"	7.9	5.2	.9	47.0	39.0	.58	0.07	0.07	0.07	0.07
34	4 N.S.	"	15.1	8.5	*	*	.82	0.10	0.10	0.10	0.10	0.10
35	2 "	"	12.7	8.7	*	*	.98	0.09	0.09	0.09	0.09	0.09
36	1 "	"	11.0	7.8	*	*	.98	0.09	0.09	0.09	0.09	0.09
37	3 "	"	11.4	*	*	*	.80	0.14	0.14	0.14	0.14	0.14
38	4 L	"	20.5	14.3	4.2	10.7	50.3	1.01	0.18	0.18	0.18	0.18
39	3 "	"	20.1	15.0	4.3	10.6	50.0	1.15	0.24	0.24	0.24	0.24
40	2 "	"	19.9	16.6	3.9	11.3	48.3	1.39	0.17	0.17	0.17	0.17
41	1 "	"	20.9	15.4	3.4	12.2	48.1	1.20	0.20	0.20	0.20	0.20
42	G.H.I	N.G.	28.4	14.4	2.0	13.5	41.7	.91	.56	.56	.56	.56
43	G.H.O.	"	22.9	11.0	2.2	13.0	50.9	.85	.50	.50	.50	.50
44	G.H.I.	"	27.3	14.8	2.3	12.4	43.2	1.29	.50	.50	.50	.50
45	G.H.O.	"	23.0	11.9	2.5	11.6	51.0	1.18	.51	.51	.51	.51
46	1 O.S.	"	7.7	5.9	1.0	46.7	38.7	1.07	0.06	0.06	0.06	0.06
47	1 N.S.	"	10.2	7.1	1.7	36.1	44.9	.98	.09	.09	.09	.09
48	1 L	"	21.3	15.0	3.4	10.8	49.5	1.19	.20	.20	.20	.20
49	2 O.S.	"	8.4	5.7	1.3	43.7	40.9	.87	.06	.06	.06	.06
50	2 N.S.	"	11.8	7.7	2.7	29.5	48.3	.98	.10	.10	.10	.10
51	2 L	"	19.8	13.8	4.2	10.8	51.4	1.00	.20	.20	.20	.20
52	3 O.S.	"	7.2	5.1	1.1	48.8	37.8	.80	.06	.06	.06	.06
53	3 N.S.	"	10.6	7.3	2.1	35.6	44.4	1.00	.06	.06	.06	.06

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54	L	1-29-67	3	20.2	13.9	3.7	11.8		50.4	1.26	.20	ppm
55	O.S.	"	4	8.1	5.0	1.3	46.0		39.6	.70	.05	
56	N.S.	"	4	11.1	8.1	2.2	31.4		47.2	0.70	.10	
57	L	"	4	22.0	15.4	3.5	10.4		48.7	1.25	.20	
58	O.S.	3-4-67	2	6.4	6.0	1.0	44.2		42.4	0.84	.04	
59	N.S.	"	4	10.8	8.2	1.9	31.6		47.5	1.08	.09	
60	O.S.	5-6-67	1	6.2	5.1	0.8	45.8		42.1	0.48	.04	
61	"	3-4-67	4	6.9	5.0	0.9	45.7		41.5	0.98	.05	
62	L	"	3	19.5	16.7	2.7	9.9		51.2	1.15	.20	
63	O.S.	"	3	7.4	5.6	0.9	47.6		38.5	1.21	.05	
64	N.S.	"	2	8.5	8.2	2.0	34.9		46.4	0.84	.08	
65	L	"	4	20.6	19.4	2.9	9.6		47.5	1.46	.22	
66	O.S.	"	1	7.0	5.5	1.0	44.0		42.5	0.54	.06	
67	O.S.	4-3-67	2	5.8	6.4	0.9	47.1		39.8	1.30	.04	
68	L	3-4-67	1	18.2	18.6	2.8	10.2		50.2	0.81	.20	
69	N.S.	"	1	9.8	9.3	1.9	30.9		48.1	*	.10	
70	N.S.	5-6-67	3	8.8	8.7	1.0	36.5		45.0	1.34	.09	
71	O.S.	4-3-67	1	6.0	5.2	0.8	45.5		42.5	0.66	.05	
72	N.S.	5-6-67	2	9.5	9.8	1.5	34.0		45.2	1.11	.09	
73	L	6-1-67	2	20.1	10.9	2.1	8.7		58.2	1.15	.29	
74	L	4-3-67	2	16.2	20.3	2.6	11.8		49.1	1.44	.19	
75	L	"	4	19.2	21.8	3.1	9.4		46.5	1.59	.21	
76	N.S.	"	4	12.6	11.6	2.3	28.2		45.3	1.16	.16	
77	O.S.	5-6-67	3	6.1	5.6	0.8	52.6		34.9	1.38	.05	
78	N.G.	3-4-67	26.5	9.3	2.3	13.0		48.9	1.05	.39		
79	N.G.	2-8-67	20.8	17.8	1.9	15.6		43.9	2.91	.41		
80	N.S.	3-4-67	11.1	9.4	1.9	31.4		46.2	1.51	.12		

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Sample No.	Description	DM	N	Prot.	Ash	Fat	Fiber 1	Fiber 2	NFE	Ca	P	Mo
81	G.H.O	0.S.	6-1-67	8.4	5.0	0.8	48.5		37.3	0.88		
82	L		3-4-67	18.8	20.1	2.8	11.4		46.9	1.39	.21	
83	G.H.I	N.G.	"	30.9	11.2	2.0	12.7		43.2	0.96	.43	
84	L		5-6-67	17.4	17.7	2.3	12.9		49.7	1.62	.20	
85	G.H.I.	L	6-1-67	28.0	14.4	1.7	9.3		46.6	1.35	.36	
86	L		4-3-67	18.8	18.1	2.5	10.7		49.9	1.49	.20	
87	N.S.		"	8.7	8.8	1.8	31.8		48.9	1.02	.09	
88	G.H.I.	L	"	35.6	12.1	2.3	6.9		43.1	.96	.49	
89	G.H.I.	N.S.	"	16.6	6.9	1.6	38.9		36.0	.68	.26	
90	L		"	16.7	19.0	2.4	11.2		50.7	1.16	.19	
91	L		5-6-67	17.8	20.9	2.9	12.4		46.0	1.44	.20	
92	N.S.		6-2-67	12.6	11.0	*	*		*	1.14	.10	
93	L		5-6-67	18.6	21.3	2.5	10.3		47.3	1.98	.21	
94	O.S.		"	7.1	7.2	1.1	44.8		39.8	1.30	.05	
95	L		"	14.7	19.5	2.3	13.4		50.1	1.34	.15	
96	G.H.O	N.S.	4-3-67	14.0	5.8	1.0	35.8		43.4	.67	.21	
97	G.H.I.	N.S.	6-1-67	16.2	7.4	1.1	39.2		36.1	.99	.22	
98	O.S.		4-3-67	7.5	5.7	0.9	47.1		38.8	.94	.07	
99	O.S.		5-6-67	6.7	5.7	0.9	48.8		37.9	1.00	.05	
100	G.H.O.	L	4-4-67	23.2	8.1	2.6	7.8		58.3	.79	.38	
101	N.S.		6-2-67	9.3	9.3	1.4	34.6		45.4	.82	.14	
102	L		"	17.4	20.4	2.0	10.4		49.8	1.18	.15	
103	N.S.		5-6-67	10.9	9.7	1.6	33.5		44.3	1.19	.12	
104	G.H.I.	O.S.	6-1-67	12.4	5.7	0.7	51.2		30.0	.86	.14	
105	N.S.		6-2-67	10.6	12.8	1.5	29.2		45.9	1.40	.10	
106	O.S.		6-2-67	7.1	6.0	0.7	48.2		38.0	.90	.14	
107	G.H.O	N.G.	6-1-67	11.6	5.6	1.1	39.1		42.6	1.30	.05	

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108	N.S.	5-6-67	9.6	9.1	7.0	0.9	45.9	31.0	46.0	1.42	.88	.10
109	O.S.	6-2-67	6.6	7.0	0.9	45.9	31.0	46.0	1.42	.88	.06	.10
110	N.S.	4-3-67	11.6	9.7	1.7	31.0	31.0	46.0	1.41	.84	.10	.13
111	N.S.	"	10.8	10.1	1.8	30.5	45.0	38.7	1.36	.84	.07	.13
112	O.S.	"	8.1	7.2	1.0	45.0	38.7	1.36	1.80	.84	.07	.11
113	L	6-2-67	14.5	23.2	2.0	10.8	49.5	1.80	1.80	.80	.11	.11
114	L	"	14.8	22.3	2.2	47.5	50.0	1.81	1.81	.81	.14	.14
115	O.S.	"	6.9	5.8	0.8	47.5	39.0	1.13	1.13	.81	.07	.07
116	L	"	14.5	22.2	1.8	12.1	49.4	1.48	1.48	.81	.12	.12
117	N.S.	"	*	11.7	1.6	32.1	*	*	*	.81	.16	.16
118	O.S.	"	6.4	4.7	0.6	50.2	38.1	0.75	0.75	.81	.07	.07
119	O.S.	7-13-67	6.6	5.2	0.9	49.8	37.5	1.11	1.11	.81	.07	.07
120	N.S.	"	11.1	10.8	1.6	35.1	41.4	1.32	1.32	.81	.11	.11
121	N.S.	"	10.1	10.6	0.9	36.7	41.7	0.87	0.87	.81	.10	.10
122	L	"	13.8	20.9	2.3	13.4	49.6	1.71	1.71	.81	.10	.10
123	L	"	16.1	20.2	2.2	11.4	50.1	1.31	1.31	.81	.12	.12
124	N.S.	"	12.0	10.3	1.3	35.9	40.5	1.22	1.22	.81	.12	.12
125	N.S.	"	10.3	11.1	1.8	32.9	43.9	1.02	1.02	.81	.11	.11
126	N.S.	8-29-67	10.0	10.4	1.6	36.0	42.0	0.88	0.88	.81	.10	.10
127	L	7-13-67	12.9	20.8	2.4	13.1	50.8	1.44	1.44	.81	.09	.09
128	N.S.	8-29-67	8.7	10.9	1.9	33.3	45.2	1.16	1.16	.81	.09	.09
129	L	"	15.8	21.0	2.9	9.8	50.5	1.07	1.07	.81	.16	.16
130	N.S.	"	12.5	11.3	2.1	27.3	46.8	0.91	0.91	.81	.15	.15
131	L	"	14.9	24.5	2.6	9.6	48.4	1.51	1.51	.81	.10	.10
132	N.S.	"	11.1	11.6	1.4	34.7	41.2	1.47	1.47	.81	.15	.15
133	L	"	15.6	23.3	2.1	10.9	48.1	1.97	1.97	.81	.10	.10
134	L	"	13.5	22.4	2.7	10.5	50.9	1.58	1.58	.81	.09	.09

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135	2 O.S.	8-29-67	6.9	6.9	6.9	0.9	51.1	34.2	1.48	0.04		
136	S G.H.O	"	9.7	6.5	1.3	44.4	38.1	1.12	0.05			
137	L G.H.O	"	24.4	14.5	2.8	10.6	47.7	2.11	0.16			
138	S G.H.I.	"	10.6	4.8	0.9	50.0	33.7	0.61	0.12			
139	G.H.O.(?)L	"	24.4	14.7	2.6	10.7	47.6	1.15	0.25			
140	O.S.	"	9.4	5.5	1.1	44.5	39.5	0.79	0.08			
141	O.S.	"	6.7	6.0	1.1	48.1	38.1	0.77	0.06			
142	O.S.	"	8.8	6.5	1.0	48.1	35.6	1.09	0.07			
143	O.S.	7-13-67	6.4	6.3	1.1	47.0	39.2	1.14	0.05			
144	O.S.	"	7.2	5.9	1.0	49.7	36.2	0.74	0.07			
145	O.S.	"	7.2	6.2	1.0	50.7	34.9	1.44	0.07			
146	L	"	15.2	22.4	2.7	12.8	46.9	1.30	0.10			

Note: * indicates insufficient sample for analysis.

John M. Ribble
 John M. Ribble
 Extension Technologist
 CC: R. V. Parker
 W. S. Clawson

J. 5031/146

RECEIVED*
DEC 20 1967

WORK REQUEST

AGRICULTURAL EXTENSION LABORATORY

County: *San Luis Obispo*

Date sampled: *April 26 thru May 1 1967*

Identification: *Orchard program - Oak Hills*

Sampling location: *Metric 0.07 % Sec. T R*

Crop: *Walnuts*

Soil type: *Drainage*

Irrigation method: *None*

No. of samples: *146*

Analyses requested: *% Ash, % Fiber, % Fat, % Protein, % NFE, Ca, P (H₂O)*

Problem or project: *Variation in fiber value between plants and through*

Date report needed: *next 2 weeks*

Sample no.	Description
1-1	Plant leaves Nov-66
2-1	Wood stems
3-4	Old stems
4-1	"
5-2	N.S.
6-2	L
7-	Seed
8-2	O.S.
9-4	leaves
10-4	N.S.
11-3	N.S.
12-3	L
13-3	O.S.
14-G.H. New Grove	"
15-4	"

16-3	O.S.	Dec 3-66
17-4	L	"
18-3	L	"
19-4	O.S.	"
20-1	"	"
21-2	L	"
22-1	"	"
23-2	O.S.	"
24-3	N.S.	"
25-1	N.S.	"
26-2	N.S.	"
27-G.H.I. New Grove	Nov 9	"
28-G.H.I.	Dec 3	"
29	CHS	"