

TABLE 1--MINERAL COMPOSITION OF ALFALFA (ALL VALUES BASED ON

AIR-DRY MATERIAL CONTAINING MOISTURE AS INDICATED, LAST COLUMN)

County	Location	Soil Type	Variety	Year	Sample Number				Ash %		Nitrogen %		Phosphorus %		Calcium %		Magnesium %		Potassium %		Iron p.p.m.		Manganese p.p.m.		Boron p.p.m.		Cobalt p.p.m.		Copper p.p.m.		Molybdenum p.p.m.		Zinc p.p.m.		Moisture %		
					E	L	E	L	E	L	E	L	E	L	E	L	E	L	E	L	E	L	E	L	E	L	E	L	E	L	E	L	E	L	E	L	
Holt	S $\frac{1}{2}$ NW $\frac{1}{4}$, S8, T60N, R37W	Marshall	Graham	1956	7-28		8.74				3.57		.352		1.73		.243		3.12		173		38		22		.070		12.9		.69		18		8.13		
Holt	NW $\frac{1}{4}$ SE $\frac{1}{4}$, S30, T60N, R37W	Marshall	Neb. No. 12	1957	7-31	9-21	8.48	9.80			3.55	4.62	.291	.327	1.95	1.69	.296	.326	2.46	3.13	177	171	32	44	32	26	.060	.065	11.0	13.6	.70	.086	26	23	8.59	8.70	
Holt	NW $\frac{1}{4}$ SE $\frac{1}{4}$, S30, T60N, R37W	Marshall	Neb. No. 12	1956	7-27	9-29	8.38	9.84			3.37	3.78	.273	.289	1.86		.306		1.95	2.00	150	180	35	40	29	29	.18	.11	10.2	12.0	.82	.61	29	28	7.78	8.84	
Holt	NW $\frac{1}{4}$ SE $\frac{1}{4}$, S30, T60N, R37W	Marshall	Neb. No. 12	1954	7-60		9.95				3.93		.339		1.34		.319		2.65		308		70		54		.08		14.7				20				
Holt	SE $\frac{1}{4}$ NW $\frac{1}{4}$, S30, T6 N, R37W	Marshall	Neb. No. 12	1954	7-61		10.34				3.52		.362		1.64		.369		2.50		590		76		55		.20		16.5				24				
Saline	SE $\frac{1}{4}$ NE $\frac{1}{4}$, S20, T51N, R22W	Marshall	Non-Hardy	1957	7-8	9-25	10.51	10.62			3.32	4.14	.366	.335	1.84	2.48	.286	.362	2.48	3.21	165	91	38	35	15	24	.036	.063	13.5	11.2	.48	.35	46	28	8.37	8.77	
Saline	SE $\frac{1}{4}$ NE $\frac{1}{4}$, S20, T51N, R22W	Marshall	Non-Hardy	1956	7-15	9-14	8.26	9.59			2.69	3.60	.245	.302	1.52	2.29	.254	.359	2.50	3.30	160	124	23	42	19	22	.053	.18	10.1	12.2	.56	.36	13	26	6.87	8.61	
Holt	NE $\frac{1}{4}$ SW $\frac{1}{4}$, S25, T61N, R38W	Marshall	Buffalo	1957	7-30	9-28	10.70	9.19			4.35	5.92	.398	.492	1.74	3.46	.320	.426	3.28	3.08	159	131	25	27.5	26	31	.043	.038	15.7	13.0	.86	2.2	26	29	9.55	9.41	
Holt	NE $\frac{1}{4}$ SW $\frac{1}{4}$, S25, T61N, R38W	Marshall	Buffalo	1956	7-29	9-31	7.06	12.4			3.17	3.93	.223	.287	1.57	3.40	.306	.373	2.30	3.12	113	178	23	35	29	36	.052	.10	11.8	13.0	.89	1.50	16	22	8.86	8.03	
Saline	3 Mi. N. Marshall	Marshall		1957	7-7	9-26	8.29	10.10			3.13	5.06	.271	.430	1.88	1.45	.318	.321	2.22	3.12	125	91	40	37	32	30	.036	.074	13.1	12.2	.21	.47	36	38	7.75	9.02	
Saline	SW $\frac{1}{4}$ SW $\frac{1}{4}$, S4, T50N, R21W	Marshall	Buffalo	1956	7-14	9-19	11.5	9.44			4.39	2.40	.557	.207	1.85		.342		3.50		440	115	63	37	26	24	.24	.15	28	9.7	.63	.125	60	22	8.21	7.83	
LaFayette	NW $\frac{1}{4}$ NW $\frac{1}{4}$, S5, T49N, R25W	Marshall	Buffalo	1957	7-4	9-20	9.56	9.62			3.14	3.90	.250	.318	2.42	1.91	.310	.327		2.88	244	123	60	55	34	30	.043	.027	12.8	9.3	.32	.63	38	21	8.82	6.69	
LaFayette	NW $\frac{1}{4}$ NW $\frac{1}{4}$, S5, T49N, R25W	Marshall	Buffalo	1956	7-11	9-30	8.44	11.15			2.87	3.50	.218	.261	2.24	4.58	.303	.378	2.34	2.40	127	208	38	45	27	35	.046	.035	11.7	11.1	.27	.22	18	23	8.35	3.98	
LaFayette	NW $\frac{1}{4}$ SW $\frac{1}{4}$, S5, T49N, R25W	Marshall	Buffalo	1957	7-3	9-19	9.83	10.41			4.01	4.40	.370	.392	1.95	1.88	.366	.360	2.71	3.05	141	95	35	32.5	21	27	.030	.022	14.3	10.4	.72	.37	37	27	10.42	8.46	
LaFayette	NW $\frac{1}{4}$ SW $\frac{1}{4}$, S5, T49N, R25W	Marshall	Buffalo	1956	7-9	9-28	8.28	11.52			2.94	3.91	.257	.400	1.79	4.33	.285	.538	2.15	2.15	116	189	23	22.5	25	23	.046	.036	11.1	14.5	.28	.24	22	35	8.29	8.87	
Perry		Wabash		1957	6-89	9-37	8.17	9.37			3.46	4.47	.316	.375	1.34	1.50	.244	.339		2.84	65	96	18	38	34	31	.035	.030	12.4	13.6	1.40	1.75	21	27	8.87	8.36	
Perry	S6, T36N, R11E	Wabash	Oklahoma	1956	6-40	9-56	9.68	10.50			3.38	4.41	.375	.425	1.29	1.84	.228	.403	3.70	3.38	133	119	28	30	43	34	.046	.040	10.6	13.6	1.92	1.31	20	32	8.37	7.80	
Perry	S13, T36N, R11E	Wabash	Oklahoma	1957	6-90	9-47	11.38	10.10			3.59	4.17	.374	.372	1.39	1.28	.226	.210	2.66	3.91	105	65	23	49	27		.21	.044	8.4	8.8	1.4	2.0	25	20	8.63	9.07	
Perry	S13, T36N, R11E	Wabash	Oklahoma	1956	6-39	9-57	7.74	10.40			3.27	5.42	.333	.662	1.52	1.50	.317	.348	3.03	4.0	88	180	20	23	34	35	.033	.044	11.2	17.4	1.77	1.75	24	36	7.60	8.14	
Saline	10 Mi. N., 5 Mi. W. Marshall	Wabash	Buffalo	1957	7-10	9-22	9.50	10.72			3.61	4.27	.357	.351	1.62	1.41	.194	.262	3.01	3.76	112	101	20	32.5	38	22	.035	.026	16.1	11.3	2.4	3.3	36	26	7.84	8.40	
Saline	10 Mi. N., 5 Mi. W. Marshall	Wabash	Buffalo	1956	7-17	9-15	6.98	9.56			2.65	3.96	.247		1.31	3.16	.174	.347	2.55	3.27	104	126	65	27.5	29	45	.03	.037	10.5	12.8	1.15	1.72	15	23	8.97	9.74	
Holt	W $\frac{1}{2}$ NW $\frac{1}{4}$, S10, T62N, R40W	Wabash	Dak. No. 12	1957	7-29	9-55	8.20	8.34			3.19	4.16	.292	.350	1.36	1.48	.164	.360	2.65	3.29	126	107	15	22.5	41	30	.041	.031	9.7	11.8	1.5	2.6	21	27	8.34	9.55	
Holt	W $\frac{1}{2}$ NW $\frac{1}{4}$, S10, T62N, R40W	Wabash	Dak. No. 12	1956	7-34	9-20	9.10	11.9			2.78	4.15	.292	.395	1.57	2.28	.225	.306	2.94	3.42	107	144	20	25	35	19	.025	.055	8.6	12.6	1.26	3.31	18	27	9.59	7.75	
Holt	W $\frac{1}{2}$ NW $\frac{1}{4}$, S10, T62N, R40W	Wabash	Dak. No. 12	1954	7-63		9.36				2.85		.254		1.07		.211		2.97		302		39		94		.06		10.7				13				
Daviess	N $\frac{1}{2}$ SE $\frac{1}{4}$, S16, T58N, R26W	Wabash		1956	7-40	9-25	6.08	10.00			2.78	3.61	.235	.353	1.39	4.27	.225	.626	1.90	2.75	125	112	35	82	22	31	.02	.12	12.2	11.9	.81	1.90	24	42	8.07	6.76	
Daviess	S2, T58N, R27W	Wabash	Buffalo	1957	7-38	9-41	9.74	9.71			4.24	4.46	.368	.412	1.84	1.70	.250	.282	2.68	3.21	137	85	45	37.5	20	22	.028	.019	13.2	11.1	.60	.66	32	28	7.88	8.38	
Daviess	S2, T58N, R27W	Wabash	Buffalo	1956	7-39		9.85				3.29		.342		1.87		.395		3.12		109		65		30		.11		16.6		.16		38		9.88		
Holt	NW $\frac{1}{4}$ NW $\frac{1}{4}$, S31, T59N, R37W	Wabash	Buffalo	1957	7-32	9-54	11.50	9.67			4.56	4.83		.431	1.79	1.80	.375	.386		3.10	110	94	35	17.5	25	25		.030	.034	12.6	13.4	2.1	2.4	30	34	8.68	7.82
Holt	NW $\frac{1}{4}$ NW $\frac{1}{4}$, S31, T59N, R37W	Wabash	Buffalo	1956	7-31	9-21	6.57	10.19			3.37	4.20	.304	.367	1.74		.280		2.35	3.47	225	121	23	23	27	22		.051		12.2				22		8.89	8.12
Holt	NW $\frac{1}{4}$ NW $\frac{1}{4}$, S31, T59N, R37W	Wabash	Buffalo	1954	7-62		11.26				4.02		.458		1.31		.294		3.16		186		39		63		.07		11.5				98				
Saline	SW $\frac{1}{4}$ SW $\frac{1}{4}$, S34, T51N, R22W	Wabash	Buffalo	1957	7-9	9-23	12.25				3.28	4.12	.312	.348	1.73	1.95	.224	.364	2.48	3.90	129	101	26	30	29	30	.16	.12	11.6	13.5	3.2	2.3	27	35	7.62	9.12	
Saline	SW $\frac{1}{4}$ SW $\frac{1}{4}$, S34, T51N, R22W	Wabash	Buffalo	1956	7-16	9-16	7.62	10.84			3.04	5.56	.235	.582	1.40	1.97	.228	.337	2.49	3.75	227	121	18	32.5	37	40	.067	.092	14.3	16.4	1.33	2.44	21	34	6.13	9.45	
Holt	NW $\frac{1}{4}$ NE $\frac{1}{4}$, S15, T62N, R40W	Wabash	Dak. No. 12	1957	7-28	9-56	10.60	9.67			3.88	4.46	.370	.371	1.48	1.51	.228	.236	3.06	3.20	149	94	20	15	24	26	.039	.045	11.1	12.1	1.7	2.8	24	25	8.32	5.13	
Holt	NW $\frac{1}{4}$ NE $\frac{1}{4}$, S15, T62N, R40W	Wabash	Dak. No. 12</																																		