

TECHNICAL NOTES

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

STATE OFFICE

STILLWATER, OKLAHOMA 74074

PLANT SCIENCE TECHNICAL REFERENCES - FOR IN SERVICE USE ONLY

BIOLOGY - OK-18

March 31, 1975

Re: Nutritional Values of Some Native Oklahoma Wildlife Foods

The following table illustrates the value of some native Oklahoma plants for wildlife food.

Under good management significant natural stands of a variety of these plants are considered adequate to wildlife common to an area. In addition these seeds provide a high value supplement to agricultural crops that may have lower nutritional values.

As an example, milo grain has the following chemical analysis:

<u>Protein</u>	<u>Fat</u>	<u>Fiber</u>	<u>N.F.E.</u>	<u>Ca</u>	<u>P</u>
11.3	2.9	2.2	71.3	.03	.30

The native plants listed below should be protected and increased on areas managed for wildlife benefits.

THE CHEMICAL COMPOSITION OF CERTAIN SEEDS OR FRUITS FROM WESTERN OKLAHOMA

PLANT	ASH	PROTEIN	FAT	FIBER	N.F.E.*	Ca	P
Rough-Leaf Dogwood	4.32	6.23	13.77	38.39	37.29	1.20	.154
American Elder	3.79	13.39	9.82	37.00	36.00	.62	.378
Illinois Bundleflower	4.45	34.45	1.65	12.59	46.86	.30	.472
Roundhead Lespedeza	3.55	48.37	5.05	14.75	28.28	.15	.441
Bladdersenna	4.09	41.22	2.81	17.34	34.54	.25	.348
Tatarian Honeysuckle	4.53	8.15	16.32	7.06	63.94	.65	.259
Common Buckthorn (Chittam)	2.58	21.79	23.88	20.16	31.59	.55	.248
Wand Lespedeza	3.84	35.81	3.03	17.34	39.98	.24	.378

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(Continued)

PLANT	ASH	PROTEIN	FAT	FIBER	N.F.E.*	Ca	P
Hybrid Hackberry	35.39	10.53	1.47	9.31	42.75	11.95	.160
Lilac Chastetree	5.27	8.55	2.88	43.90	39.40	.78	.231
Silky Prairie Clover	3.92	27.61	1.09	11.64	55.74	.32	.302
Tephrosia	4.94	44.34	2.23	10.93	37.46	.42	.371
Anil Indigo	3.28	30.00	1.18	11.66	53.88	.29	.380
Western Indigo	6.73	35.22	.62	10.07	47.36	.64	.402
Winterberry Euonymus	3.07	21.22	39.50	13.66	22.55	.47	.276

*Nitrogen-free extract

(Analyses made by Agricultural Chemistry Research Department, Oklahoma State University.)

/s/Hampton Burns

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