

**Table 11.2****Nutrient composition of acorns of 11 oak species**

<i>Component</i>	<i>White oak group</i>					<i>Red oak group</i>					
	<i>White</i>	<i>Swamp chestnut</i>	<i>Live</i>	<i>Post</i>	<i>Sawtooth</i>	<i>Water</i>	<i>Willow</i>	<i>Black</i>	<i>Bluejack</i>	<i>Northern red</i>	<i>Southern red</i>
Oven-dry matter	60.5	54.5	71.3	67.3	66.9	81.9	79.5	87.2	82.6	79.4	80.2
Crude protein	4.6	4.4	5.8	6.8	6.6	4.9	5.5	5.7	6.9	4.9	7.0
Crude fat	5.8	2.9	6.1	6.7	4.7	21.1	20.0	17.5	26.2	14.0	22.7
Crude fiber	18.6	22.3	14.6	18.1	12.4	17.6	18.9	16.6	15.8	26.4	19.9
Nitrogen-free extract	68.3	67.6	71.7	65.3	73.2	54.0	53.5	57.9	49.0	52.3	48.6
Ash	2.7	2.8	1.8	3.1	3.1	2.4	2.1	2.3	2.1	2.4	1.8
Calcium	0.18	0.14	0.13	0.22	0.20	0.18	0.23	0.19	0.16	0.15	0.23
Phosphorus	0.09	0.09	0.09	0.09	0.14	0.08	0.07	0.10	0.12	0.08	0.11
Silica	0.06	0.04	0.05	0.14	0.06	0.08	0.02	0.03	0.02	0.10	0.06
Neutral-detergent fiber	44.9	51.1	38.0	47.7	44.4	34.1	34.3	30.9	30.7	44.5	35.4
Acid-detergent fiber	21.8	27.8	22.2	24.5	20.0	21.3	22.7	23.2	19.6	29.3	22.8
Acid-detergent lignin	7.8	11.2	10.8	8.9	9.0	11.2	10.4	9.6	10.8	10.0	10.2
Hemicellulose	23.1	23.3	15.8	23.2	24.4	12.8	11.6	7.7	11.1	15.2	12.6
Cellulose	14.0	16.6	11.4	15.6	11.0	10.1	12.3	13.6	8.8	19.3	12.6

*Source:* Data from Short 1976.

*Note:* Oven-dry matter is expressed as a percentage of the weight of fresh acorns; the other components are given as percentages of oven-dry weight.