

**Plant Nutrient Uptake by Specified Crop & Removed in the Harvested Part of the Crop**  
 (Kilmer 1982; Morrison 1956; Sanchez 1976; USDA 1985)

Note: Crops identified typical for Arizona however yields may need to be adjusted.

Dry wt. lb/bu	Typical Yield/acre Plant part	*****Average concentration of nutrients (%)*****								
		N	P	K	Ca	Mg	S	Cu	Mn	Zn
***** % of the harvested material *****										
48	50 bu	1.82	0.34	0.43	0.05	0.10	0.16	0.0016	0.0016	0.0031
	1 T straw	0.75	0.11	1.25	0.40	0.10	0.20	0.0005	0.016	0.0025
56	120 bu	1.61	0.28	0.40	0.02	0.10	0.12	0.0007	0.0011	0.0018
	4.5 T stover	1.11	0.2	1.34	0.29	0.22	0.16	0.0005	0.0166	0.0033
32	80 bu	1.95	0.34	0.49	0.08	0.12	0.2	0.0012	0.0047	0.002
	2 T straw	0.63	0.16	1.66	0.20	0.20	0.23	0.0008	0.003	0.0072
56	60 bu	1.67	0.36	0.42	0.13	0.17	0.17	0.0003	0.0013	0.0013
	3 T straw	1.08	0.15	1.31	0.48	0.30	0.13		0.116	
60	40 bu	2.08	0.62	0.52	0.04	0.25	0.13	0.0013	0.0038	0.0058
	1.5 T straw	0.67	0.07	0.97	0.20	0.10	0.17	0.0003	0.0053	0.0017
***** % of the harvested material *****										
50	35 bu	3.60	0.79	0.76		0.66				
	3 T straw	4.48	0.43	3.37	1.47	0.06	0.68	0.0001	0.0008	
25	1,110 lb	3.57	1.71	1.11	0.18	0.34	0.17		0.0022	
	4 T stover	1.5	0.18	2.92	1.73	0.09	0.04		0.0241	
***** % of the harvested material *****										
	600 lb Lint & 1,000 lb seeds	2.67	0.58	0.83	0.13	0.27	0.20	0.0040	0.0073	0.0213
	Burs & stalks	1.75	0.22	1.45	1.40	0.40	0.75			
***** % of the harvested material *****										
	4 tons	2.25	0.22	1.87	1.40	0.26	0.24	0.0008	0.0055	0.0053
	8 tons	1.88	0.19	1.40	0.37	0.15	0.22	0.0013		
	5 tons	1.67	0.27	1.42	0.65	0.35				
	3.5 tons	1.97	0.20	2.00	0.30	0.19				
	2.5 tons	1.20	0.22	1.58	0.36	0.12	0.10	0.0006	0.0062	
	1 ton	1.42	0.27	2.68	0.36	0.24	0.11			
***** % of the harvested material *****										
	10 wet/5 dry	2.79	0.33	2.32	0.97	0.33	0.36	0.0009	0.0052	
	20 wet/7 dry	1.10	0.25	1.09	0.36	0.18	0.15	0.0005	0.0070	
	20 wet/6 dry	1.44	0.19	1.02	0.37	0.31	0.11	0.0032	0.0045	
	10 wet/4 dry	1.60	0.28	0.94	0.31	0.24	0.18			
	10 wet/5 dry	1.36	0.16	1.45	0.43	0.34	0.04		0.0091	
***** % of the harvested material *****										
	4 tons	1.88	0.19	1.40	0.37	0.15	0.22	0.0013		