

NUTRIENT UPTAKE AND REMOVAL GUIDE

U.S. MEASUREMENTS

CROP	YIELD	NITROGEN (N)		PHOSPHORUS (P ₂ O ₅)		POTASSIUM (K ₂ O)		SULFUR (S)		SULFUR (S)
		UPTAKE	REMOVAL	UPTAKE	REMOVAL	UPTAKE	REMOVAL	UPTAKE	REMOVAL	UPTAKE
		lbs/ac		lbs/ac		lbs/ac		lbs/ac		lbs/yield unit
Alfalfa	5 tons/ac	280	255	75	60	300	245	35	27	7.00 lbs/ton
Apples	500 bu/ac	100	30	44	10	175	45	24	20	0.05 lbs/bu
Barley	90 bu/ac	135	40	55	36	130	33	16	10	0.18 lbs/bu
Beans, Dry	50 bu/ac	125	15	48	40	117	60	10	7	0.20 lbs/bu
Beans, Snap	325 bu/ac	135	30	31	20	154	35	12	9	0.04 lbs/bu
Blueberry	5 tons/ac	44	10	8	3	35	20	11	2	2.2 lbs/ton
Cabbage	20 tons/ac	140	125	60	30	160	130	44	35	2.20 lbs/ton
Canola	40 bu/ac	120	76	60	48	100	80	20	14	0.50 lbs/bu
Corn	160 bu/ac	215	144	96	61	220	43	29	13	0.18 lbs/bu
Corn, silage	25 tons/ac	242	200	83	78	200	183	28	28	1.12 lbs/ton
Corn, sweet	165 bu/ac	110	42	35	14	90	28	15	9	0.10 lbs/bu
Cotton	2 bales/ac	150	62	50	24	110	28	30	5	15.00 lbs/bale
Legume-Grass Forage	4 tons/ac	200	160	60	48	240	200	20	16	5.00 lbs/ton
Oats	100 bu/ac	110	77	40	28	150	19	20	7	0.20 lbs/bu
Onions	25 tons/ac	155	125	68	65	135	96	35	24	1.40 lbs/ton
Oranges	500 cwt/ac	245	88	50	11	300	135	28	25	0.06 lbs/cwt



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		UPTAKE	REMOVAL	UPTAKE	REMOVAL	UPTAKE	REMOVAL	UPTAKE	REMOVAL	UPTAKE
		lbs/ac		lbs/ac		lbs/ac		lbs/ac		lbs/yield unit
Peanuts	2 tons/ac	210	120	35	20	165	30	24	9	12 lbs/ton
Peppers	9 tons/ac	140	36	52	13	220	50	50	22	5.56 lbs/tons
Potatoes	450 cwt/ac	260	144	90	54	500	248	20	14	0.05 lbs/cwt
Rice	180 bu/ac	130	96	70	50	170	30	20	12	0.11 lb/bu
Sorghum/Milo	120 bu/ac	240	96	85	48	200	24	23	8	0.20 lbs/bu
Soybeans	50 bu/ac	250	190	55	44	145	76	18	11	0.36 lbs/bu
Squash	10 tons/ac	80	36	22	16	125	66	16	9	1.60 lbs/ton
Strawberries	15 tons/ac	78	40	33	17	106	75	20	12	1.34 lbs/ton
Sugar Beets	25 tons/ac	255	105	33	12	458	210	40	11	1.60 lbs/ton
Sugarcane	100 tons/ac	360	200	150	125	600	350	55	52	0.55 lbs/ton
Sunflower	65 bu/ac	100	56	40	27	55	17	20	5	0.31 lbs/bu
Sweet Potato	10 tons/ac	90	50	35	30	175	107	15	10	1.50 lbs/ton
Tobacco	3,000 lbs/ac	126	84	26	15	257	156	19	7	0.006 lb/lbs
Tomatoes	35 tons/ac	200	140	60	28	400	245	40	25	1.15 lbs/ton
Wheat	75 bu/ac	165	112	55	45	116	22	18	10	0.24 lbs/bu



Data obtained from various university publications.

