Table 9: Phosphorus concentrations for field crops and vegetable crops.

To obtain P_2O_5 removal rates, multiply yield in lbs/acre with dry matter content in % and P_2O_5 concentration in % and divide the final answer by 10,000. For example, estimated P_2O_5 removal by a 20 tons/acre corn silage crop at 35% dry matter amounts to 20*2000*35*0.62/10,000 = 87 lbs P_2O_5. This equals 4.3 lbs P_2O_5 per ton of silage (35% dry matter). All data on vegetable crops and the data on field crops marked with an asterisk (*) were obtained from the NRCS Plant Database (http://npk.nrcs.usda.gov). All other field crop data were obtained from DairyOne, Inc.

Field Crops		%P	%P_2O_5	Vegetable Crops*		%P	%P_2O_5
		% of dry matter				% of dry matter	
ALT	Alfalfa	0.33	0.76	ASP	Asparagus	0.71	1.62
AGE/ AGT	Alfalfa-grass mix	0.23	0.53	BDR	Beans – Dry	0.53	1.22
ABE/ ABT	Alfalfa-trefoil-grass	0.23	0.53	BET	Beets	0.34	0.79
BTE/ BTT	Birdsfoot trefoil	0.23	0.53	BNL	Beans – Lima	0.45	1.03
BGE/ BGT	Birdsfoot trefoil-grass	0.23	0.53	BNS	Beans – Snap	0.50	1.14
BCE/ BCT	Birdsfoot trefoil-clover	0.23	0.53	BRP	Broccoli – Transplanted	0.75	1.73
BSE/ BST	Birdsfoot trefoil-seed	0.23	0.53	BRS	Broccoli – Seeded	0.75	1.73
CLE/ CLT	Clover	0.34	0.78	BUS	Brussells Sprouts	0.51	1.17
CGE/ CGT	Clover-grass	0.24	0.55	CAR	Carrots	0.33	0.75
CSE/ CST	Clover-seed production	0.34	0.78	CBP	Cabbage – Transplanted	0.36	0.82
CVE/ CVT	Crownvetch	0.34	0.78	CBS	Cabbage – Seeded	0.36	0.82
GRE/ GRT	Grasses	0.28	0.64	CEL	Celery	0.67	1.52

Field Crops		%P	$\%P_2O_5$	Vegetable Crops*		%P	$\%P_2O_5$
		% of dry matter				% of dry matter	
GIE/ GIT	Grass-intensive management	0.34	0.78	CFP	Cauliflower – Transplanted	0.66	1.52
PIE/ PIT	Pasture-grazing rotational	0.34	0.78	CFS	Cauliflower – Seeded	0.66	1.52
PGE/ PGT	Pasture with Improved grass	0.34	0.78	CKP	Cucumber – Transplanted	0.53	1.20
PLE/ PLT	Pasture with legumes	0.24	0.55	CKS	Cucumber – Seeded	0.53	1.20
PNT	Pasture with native grasses	0.34	0.78	EGG	Eggplant	0.31	0.72
WPE/ WPT	Waterways, pond dikes	0.15	0.34	END	Endive	0.45	1.03
BSP	Barley-spring	0.29	0.66	LET	Lettuce	0.60	1.37
BSS	Barley-spring with legume	0.29	0.66	MML	Muskmelon	0.22	0.50
BWI	Barley-winter	0.29	0.66	ONP	Onion – Transplanted	0.30	0.69
BWS	Barley-winter with legume	0.29	0.66	ONS	Onion – Seeded	0.30	0.69
BUK*	Buckwheat	0.36	0.82	PEA	Peas	0.49	1.13
COG	Corn-grain	0.31	0.71	PEP	Peppers	0.34	0.77
COS	Corn-silage	0.27	0.62	POT	Potato	0.24	0.55
MIL*	Millet	0.34	0.78	PSN	Parsnips	0.36	0.83
OAT*	Oats	0.31	0.71	PUM	Pumpkins	0.39	0.90
OAS	Oats-seeded with legume	0.30	0.69	RAD	Radishes	0.44	1.01

Field Crops		%P	$\%P_2O_5$	Vegetable Crops*		%P	$\%P_2O_5$
		% of dry matter				% of dry matter	
RYC	Rye-cover crop	0.36	0.82	RHU	Rhubarb	0.23	0.54
RYS	Rye-seed production	0.36	0.82	RUT	Rutabagas	0.41	0.94
SOG	Sorghum-grain	0.22	0.50	SPF	Spinach – Fall	0.54	1.24
SOF	Sorghum-forage	0.22	0.50	SPS	Spinach – Spring	0.54	1.24
SSH	Sorghum-sudan hybrid	0.50	1.15	SQS	Squash – Summer	0.49	1.12
SUD	Sudangrass	0.50	1.15	SQW	Squash – Winter	0.27	0.62
SOY	Soybeans	0.65	1.49	SWC	Sweetcorn	0.38	0.88
SUN	Sunflower	1.02	2.34	TOM	Tomato	0.47	1.08
TRP	Triticale/peas	0.30	0.69	TUR	Turnips	0.37	0.86
WHT	Wheat	0.29	0.66	WAT	Watermelon	0.11	0.26

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