

Crop Nutrient Removal in Pounds Per Acre

To be used as estimates only. Actual values will vary based on year, variety, degree of crop maturity, fertilizer management, and other factors. Data presented as rates removed in the harvestable portion of the crop

Crop	Yield	N	P ₂ O ₅	K ₂ O	Ca	Mg	S	
Alfalfa	4 ton	249	48	196		22	22	
	8 ton	498	96	392		43	43	
Almond	2,000 lb (in shell)	130	50	170	14	10	4	
Apple	1 ton	1.08	0.4	4.2				
Artichoke	11 ton							
Asparagus	1 ton	5.9	3	7				
Avocado	15 ton	85	73	88	17	34	61	
Barley	90 bu	73	36	29				
Beans, dry	50 bu	100	26	30		3	17.4	
Beans, snap	10,000 lb	58	12	55				
Blueberries	12,000 lb	13	3	13				
Broccoli	18,000 lb	36	10	100				
Cabbage	1 ton	6.5	1.8	6.5	1	0.4	2.2	
Caneberries	1 ton	3.5						
Canola	2,000 lb	76	48	80			13.6	
Carrots	25 tons	85	45	170				
Cauliflower	7 ton	61	18	46				
Celery	1 ton	5	2	11.6				
Cherries, sweet	4 ton	40-56	6	30	6-12			
Clover, red	1 ton	45	12	42			3	
Corn, silage	12 ton	90	37	88			13	
	30 ton	226	93	220			33	
Corn, grain	100 bu	90	38	27	10	9	8	
	200 bu	180	76	54	20	18	16	
Corn, sweet	90 cwt	38	13	25		11		
Cotton, seed and lint	2600 lb	63	25	31	4	7	5	
Cranberries	200 bbl (10 ton)	15-20	1.3	4.6	0.7	0.4	1	
Cucumbers	1 ton	2	1.2	3.6				
Eggplant	16 ton	72	26	85				
Flax	1 bu	2.5	0.7	0.6			0.19	
Garlic	1 ton	15	2.8	5.6				
Grapes	1 ton	3.6	1.1	4.8				
Grass, Bahia	1 ton	44	12	36				
	Bermuda	1 ton	46	12	50			
	Blue	1 ton	30	12	36			5
	Brome	1 ton	36	13	59			5
	Clover-Grass	1 ton	50	15	60			
	Fescue	1 ton	50	19	53			5.8
Orchard	1 ton	50	17	62				
Rye	1 ton	55	12	43				

Crop Nutrient Removal in Pounds Per Acre *continued*

Crop	Yield	N	P ₂ O ₅	K ₂ O	Ca	Mg	S
Grass, Sorghum-Sudan	1 ton	30	10	34			5.8
Timothy	1 ton	25	11	42			2
Hops	5 bale	30-40	23-30	24			
Lemon	8 tons	30	6	28			
Lettuce	20 ton	70	30	200			
Melons, Cantaloupe	20 ton	97	33	154			
Honeydew	20 ton	59	18	145			
Watermelon	25 ton	35	12	73			
Oranges	20 ton	46-74	16-18	71-94			
Onions	1 ton	4	2.6	4.8			
Parsnips	1 ton	3.4	3.2	9			
Pears	1 ton	1.3-2.7	1.4	4.4			
Peas	1 ton	20	4.6	10			
Peaches	1 ton	3	2.8	11.9	14.5	4	
Peanuts	4000 lb	140	22	35	6	5	10
Peppers, All	1 ton	3.3	1.4	5.6		3.4	
Plums	1 ton	2.3					
Pistachios	1000 lb (meat)	28		30			
Prunes (dried)	1 ton	12	2	8.7			
Potatoes	500 cwt	156	66	288			22
Pumpkins	1 ton	7.4	1.2	6.8			
Rhubarb	1 ton	3.5	0.6	6.9			
Rice	80 cwt	96	52	32	7.1	8.9	7.1
Safflower	1000 lb	20-30	12	40			
Sorghum/Milo (grain)	100 bu	92	42	21	3.7	6	6
Sorghum (forage)	1 ton	40	16	59			5.8
Soybean	50 bu	190	42	65	19	10.5	9
Spinach	1 ton	10	2.7	12			
Squash	1 ton	3.6-4	2.2	6.6			
Strawberries	1 ton	2.7	1.5	5.7			
Sugar Cane	100 ton	200	120	350		40	54
Sunflower	1 ton	63	30	74		14	12
Sweet Potato	1 ton	4.7	2.4	12.7			
Table Beets	1 ton	3.5	2.2	7.8			
Tomatoes	1 ton	2.9	1.1	5.3		0.5	0.77
Turnips	1 ton	3.4	1.2	4.6			
Walnuts	1 ton nuts	31.8	6.4	10			
Wheat	50 bu	65	30	17	1.7	7.5	5
	100 bu	150	60	34	3.3	15	10