

## Nutrients removed by different crops and yield components\*

Crop	Yield per acre	Yield component	Plant nutrients removed by crops (lbs./acre)												
			Nitrogen N	Phosphate P <sub>2</sub> O <sub>5</sub>	Potash K <sub>2</sub> O	Sulphur S	Calcium Ca	Magnesium Mg	Boron B	Copper Cu	Iron Fe	Manganese Mn	Zinc Zn		
Alfalfa	4 t	all	175	39	175	20	112	21	.06	.06	.8	.4	.4		
Barley	80 bu	grain	78	34	25	7	2	4	.09	.09	.27	.09	.09		
Barley	2 t	straw	28	9	68	5	15	4	.02	.03	.01	.62	.09		
Beans	40 bu	all	100	31	31	7	3	3	-	.03	.04	.04	.08		
Canola	35 bu	seed	66	32	16	12	-	-	.1	.02	.41	.15	.22		
Canola	-	residue	39	14	67	9	-	-	.1	.02	.3	.16	.07		
Corn	100 bu	seed	97	44	28	7	-	-	.41	.05	.12	.05	.12		
Corn	3 t	residue	56	19	101	8	10	14	.07	.05	.06	1.0	.2		
Flax	24 bu	seed	51	15	15	5	70	24	-	-	-	-	-		
Flax	-	straw	14	3	20	4	70	24	-	-	-	-	-		
Oats	100 bu	grain	61	26	18	5	3	4	-	.09	.9	.18	.09		
Oats	2.5 t	straw	45	15	127	8	10	10	-	.09	.18	.18	.36		
Peas	50 bu	all	153	43	137	13	175	15	.06	.09	.63	.45	.09		
Potatoes	20 t	tubers	228	66	298	18	6	10	.06	.09	.8	.18	.09		
Sugarbeets	15 t	roots	65	24	65	9	30	24	-	-	-	.70	.20		
Wheat	60 bu	grain	75	39	24	5	2	9	.06	.05	.45	.14	.2		
Wheat	2 t	straw	30	9	65	7	9	5	.02	.03	.15	.26	.08		

### Metric Conversion

1 lb/acre = 1.12 kg/ha; 1 ton/acre = 2,244 kg/ha; ton (t) = 2000 lbs (U.K. ton = 2240 lbs);

wheat and peas: 1 bu/acre (60 lb) = 67.20 kg/ha; barley and canola: 1 bu/acre (50 lb) = 56 kg/ha; oats and light barley: 1 bu/acre (34 - 48 lb) = 38 - 53.80 kg/ha

\*Data collected from many sources.