

Fertilizer savings

Production	N rate kg/ha	P2O5 rate kg/ha	K2O rate kg/ha	Converted area ac	Converted area ha	N saved kg	Savings (\$) \$0.47/kg	P saved kg	Savings (\$) \$0.47/kg	K saved kg	Savings (\$) \$0.35/kg	Total fertilizer saved kg	Notes
<i>Crop</i>													Fertilizer prices source: Ontario Farm Input Monitoring Project, Ridgetown College, Oct. 5, 2005 http://www.ridgetownc.on.ca/research/documents/kmcewan_Price_Input_Survey_For_Web_October_5,_2005.pdf ; assumes all acres would have been fertilized prior to organic conversion N price is average of Ammonium nitrate, anhydrous ammonia, urea and nitrogen solution; P price is average of MAP, DAP, and Triple superphosphate; K price is muriate of potash 60%
Pasture	50	20	20	154357	62493	3124645	1468582.93	1249858	587433.17	1249858	437450.23	5624360	Unimproved pasture, medium soil test
Hay	60	25	70	173076	70071	4204280	1976011.68	1751783	823338.2	4904994	1716747.73	10861057	N assumes 1/3-1/2 legume; P2O5 assumes medium (12.5 ppm) soil test result;K2O assumes medium (101-120 ppm) soil test result
Spring Wheat	70	20	30	13900	5628	393928	185146.28	112551	52898.938	168826	59089.24	675306	P2O5 assumes medium (13-15 ppm) soil test result;K2O assumes medium (101-120 ppm) soil test result
Winter Wheat	75	20	20	86806	35144	2635822	1238836.28	702886	330356.34	702886	246010.04	4041594	N assumes medium yield and high N prices; P2O5 assumes medium (13-15 ppm) soil test result: K2O assumes medium (101-120 ppm) soil test result
Barley	57.5	20	30	23594	9552	549262	258153.30	191048	89792.453	286572	100300.08	1026882	N assumes equal distribution between heat unit areas: P2O5 assumes medium (13-15 ppm) soil test result: K2O assumes medium (101-120 ppm) soil test result
Fall Rye	90	20	20	8801	3563	320690	150724.15	71264	33494.255	71264	24942.53	463218	N assumes mostly S. Ont; P2O5 assumes medium (13-15 ppm) soil test result: K2O assumes medium (101-120 ppm) soil test result
Oats	35	20	20	13136	5318	186141	87486.36	106366	49992.206	106366	37228.24	398874	
Buckwheat	45	20	20	4719	1911	85974	40407.63	38211	17958.947	38211	13373.68	162395	N assumes average distribution between Nand S Ont P2o5 based on medium (12.5 ppm) soil test; K2O based on medium (80.5 ppm) soil test
Corn (grain)	140	35	65	81574	33026	4623628	2173104.94	1155907	543276.23	2146684	751339.47	7926219	N assume SW Ont side dressed applications, corn following soybean, 9 t/ha yield expectation; P2O5 assumes medium (12.5 ppm) soil test results; K2O assume medium (81.5 ppm) soil test result
Corn (silage)	109	35	65	14394	5827	635196	298542.31	203962	95862.209	378787	132575.39	1217945	78% N application relative to grain corn based on enterprise budgets
Soybeans	0	25	50	214530	86854	0	0.00	2171356	1020537.4	4342713	1519949.39	6514069	Assumes medium (12.5 soil test) for P2O5 and medium (80.5 ppm) soil test result for K2O
Flax	57.5	20	20	1536	622	35757	16805.83	12437	5845.5061	12437	4353.04	60632	See buckwheat
Edible Beans	0	25	50	5926	2399	0	0.00	59981	28190.962	119962	41986.54	179942	See soybeans
Mixed Grains	45	20	30	20627	8351	375802	176626.90	167023	78500.846	250535	87687.12	793360	N assumes mostly S. Ont: P2O5 assumes medium (13-15 ppm) soil test result; K2O assumes medium (101-120 ppm) soil test result
Potatoes	75	175	145	3647	1477	110751	52052.98	258419	121456.94	214119	74941.52	583289	N assumes anticipated yield of 20 t/ha, no cover or manure; P2O5 12.5 ppm; K2O 80.5 ppm; mineral soils
Vegetables	75	125	150	15788	6392	479384	225310.29	798973	375517.16	958767	335568.52	2237123	Averages across a range of vegetable crops P2O5 12.5ppm soil test; K2O; mineral soils
Apples	186	0	52	3476	1407	261755	123025.07	0	0	73179	25612.63	334934	N and K2O assumes a 7 yr old orchard 1000 trees/ha; no P2O5 assumes soil test of 12-20 ppm and no need for P in sod
Grapes	34	0	90	759	307	10446	4909.48	0	0	27650	9677.64	38096	Assumes adequate P2o5 soil test and now applications for sod; K2O5 assumes average annual application on medium textured soil
Peaches	186	0	52	570	231	42908	20166.77	0	0	11996	4198.53	54904	See apples
Strawberries	80	80	80	302	122	9781	4597.25	9781	4597.247	9781	3423.48	29344	
Sour Cherries	186	0	90	105	42	7903	3714.47	0	0	3824	1338.43	11727	
Pears	186	0	52	92	37	6890	3238.43	0	0	1926	674.21	8817	See apples
Raspberries	60	20	75	92	37	2230	1048.08	743	349.36032	2787	975.61	5761	N assumes irrigated crop on lighter soils, after 1st year; PK assume moderate soil test results
Crop totals				841808	340813	18103173	8508491.40	9062550	4259398.4	16084124	5629443.30	43249847	
Crop totals (ha)												18397333.13	