



Black Soil Zone



Brown Soil Zone



Dark Brown Soil Zone



Specialty Crops

CROP PLANNING GUIDE 2016

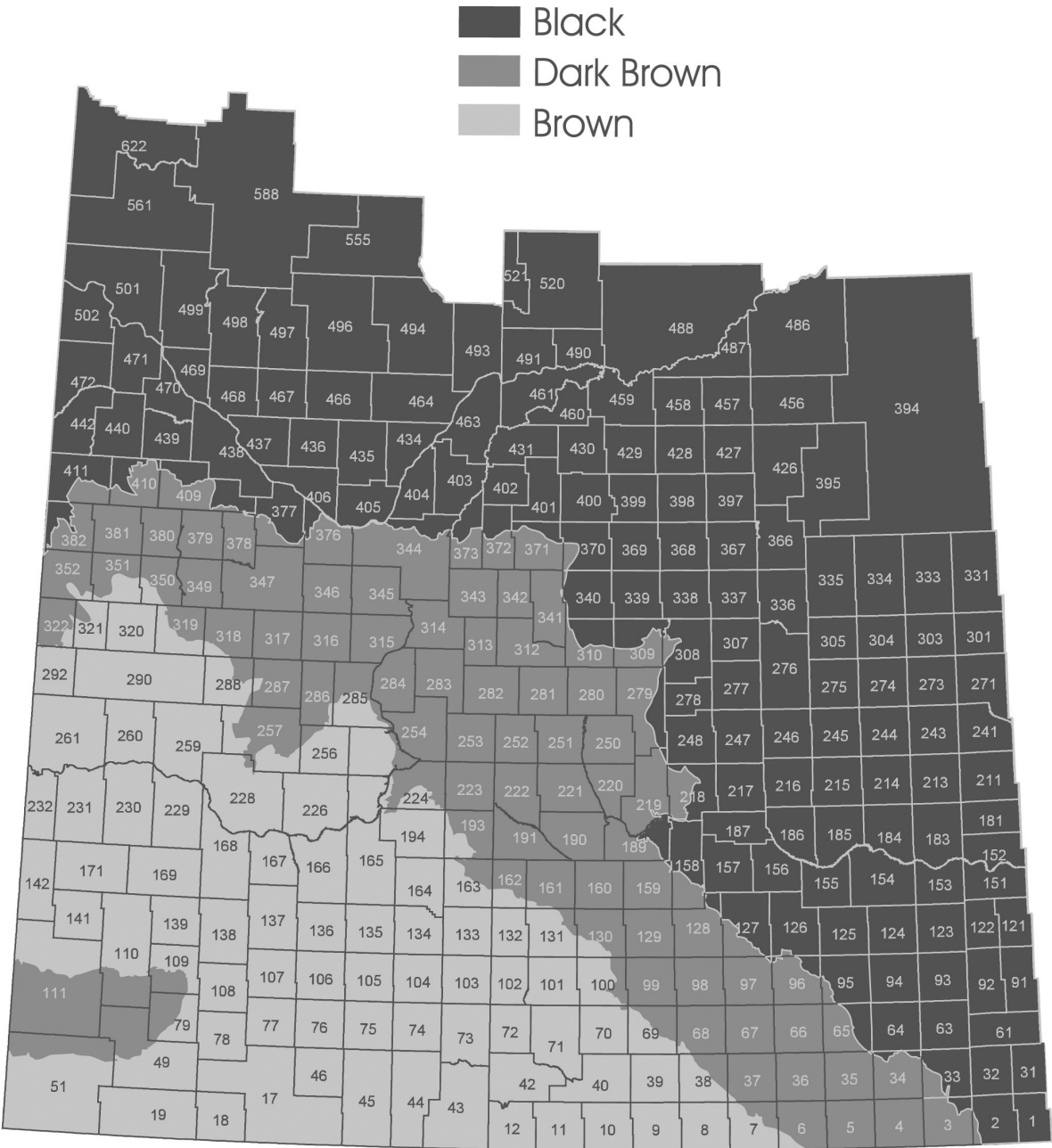


CROP PLANNING GUIDE 2016

Each year, the Saskatchewan Ministry of Agriculture makes available the Crop Planning Guide to help producers estimate their costs of producing various crops.

Please remember that the Guide is an estimate and does not represent actual provincial average cost of production figures. The figures are meant to be used as a guide. Farm managers should use their own costs of production

because costs and yields on each farm differ due to the type and amount of equipment, the amount of chemical and fertilizer used, and the various agronomic practices used. Blank worksheets are provided at the end of the Guide for this purpose. For those who would prefer, a downloadable spreadsheet is available on www.saskatchewan.ca by searching for "Crop Planner".



GENERAL ASSUMPTIONS FOR ALL SOIL ZONES

- 1. Crop prices** are based on harvest time futures prices and contract prices obtained as of December 2015. Prices become outdated very quickly. Producers must continually adjust these figures as seeding approaches.
- 2. Crop yields** are increased by 20 per cent above long-term average yields for the soil zones from Saskatchewan Crop Insurance Corporation (SCIC) and Statistics Canada, with the exception of feed and malt barley. Feed barley yields have been increased by 32 per cent, while malt barley yields have been increased by only eight per cent from the long-term average. Crop yields are increased to reflect a higher level of management and higher input levels.
- 3. Seeding rates** in the guide are expressed in pounds per acre, with the exception of corn and soybeans. Seeding rate conversions to bushels per acre may be made by dividing the stated seeding rate by 60 pounds/bu. for all types of wheat and peas; 48 pounds/bu. for barley; and 32 pounds/bu. for oats.
- 4. Fertilizer: Nitrogen costs** are based on 46-0-0 at \$545/tonne or \$0.538/lb.; Phosphorus costs are based on 11-52-0 at \$740/tonne or \$0.532/lb.; Sulphur costs are based on 20.5-0-0-24 at \$438/tonne or \$0.418/lb; Potash costs are based on 0-0-60 at \$507/tonne or \$0.383/lb. These prices can vary dramatically and producers are reminded to continually adjust these figures as seeding approaches. Fertilizer rates are based on nutrient removal contained in grain; adjust if straw is removed.
- 5. Chemicals: Pesticide costs** are set using Suggested Retail Price (SRP) costs as well as full rate application. Weeds, insects and diseases being controlled vary significantly from farm to farm and from soil zone to soil zone. The assumptions used are only to create a general cost for the Guide. Producers must use their own costs based on the weed, insect and disease pressures they are controlling. Prices can also vary significantly from SRP rates.
- 6. Machinery operating costs:** Fuel costs are based on estimated fuel consumptions for the various farming operations with diesel fuel priced at \$0.85/litre. Machinery repair rates are 4.8 per cent of machinery investment per year for pulse crops, flax, corn, soybean and sunflowers, and 3.7 per cent for all other crops.
- 7. Custom work and hired labour** is made up of costs for custom farm operations, such as custom trucking and custom spraying. Skilled labour is assumed to be \$21 per hour for 2016.
- 8. Crop Insurance premiums** are the average of the premiums charged for the soil zone based on the yield levels used at a coverage level of 70 per cent without adjustment for producer experience.
- 9. Utilities** are electricity, natural gas, water and telephone expenses.
- 10. Interest on variable expenses:** Operating interest is calculated on all variable expenses at 4.2 per cent for eight months, 18 months for fallow, hybrid fall rye and winter wheat.
- 11. Building repair rates** are 2.1 per cent of building investment per acre.
- 12. Business overhead** is made up of legal, accounting, insurance, licenses and miscellaneous.
- 13. Machinery depreciation** is calculated at 10.7 per cent of machinery investment per year on a straight-line basis.
- 14. Building depreciation** is calculated at five per cent per year on a straight-line basis of building investment.
- 15. Machinery investment** is calculated at a 6.5 per cent return on investment. It is assumed that a Brown Soil Zone farm has \$271.17 per cultivated acre invested in machinery; a Dark Brown Soil Zone farm has \$309.33 per cultivated acre invested in machinery; and a Black Soil Zone farm has \$353.75 per cultivated acre invested in machinery. Chem-fallow has only a portion of the machinery cost attributed to it. An additional machinery investment of \$57.83 per acre is assumed for corn.
- 16. Building investment cost** is calculated at a three per cent return on investment. It is assumed that a Brown Soil Zone farm has \$21 per cultivated acre invested in buildings; a Dark Brown Soil Zone farm has \$27 per cultivated acre invested in buildings; and a Black Soil Zone farm has \$36 per cultivated acre invested in buildings.
- 17. Land investment cost** is calculated at a 3.5 per cent return on investment of \$1,058 per cultivated acre in the Brown Soil Zone; \$1,220 per cultivated acre in the Dark Brown Soil Zone; and \$1,178 per cultivated acre in the Black Soil Zone.
- 18. Labour and management:** These budgets do not include an estimate for owner/operator labour and management. Typical management rates for business of this type are seven per cent of Gross Revenue.

BROWN SOIL ZONE 2016

1. Seed price and seeding rate:

	Rate	Price
Spring Wheat	86 lb./ac.	\$ 0.123/lb
Durum Wheat	105 lb./ac.	\$ 0.151/lb
CPS Wheat	115 lb./ac.	\$ 0.103/lb
Winter Wheat	113 lb./ac.	\$ 0.095/lb
Malt Barley	106 lb./ac.	\$ 0.131/lb
Feed Barley	88 lb./ac.	\$ 0.085/lb
Oats	88 lb./ac.	\$ 0.079/lb
Corn	29000 plants	\$ 0.0027/ plant
Large Green Lentils	91 lb./ac.	\$ 0.508/lb
Red Lentils	56 lb./ac.	\$ 0.547/lb
Edible Yellow Peas	138 lb./ac.	\$ 0.190/lb
Edible Green Peas	137 lb./ac.	\$ 0.152/lb
Soybean	1.4 units	\$ 64.00/unit
Flax	34 lb./ac.	\$ 0.265/lb
Hybrid Fall Rye	0.8 unit	\$ 73.00/unit
Canola	5 lb./ac.	\$ 11.89/lb

2. Fertilizer:

	lb./ac.		
	N	P	S
Spring Wheat	59	22	0
Durum Wheat	67	25	0
CPS Wheat	62	23	0
Winter Wheat	61	26	0
Malt Barley	48	20	0
Feed Barley	58	24	0
Oats	39	14	0
Hybrid Fall Rye	76	28	0
Corn	75	33	0
Large Green Lentils	4	20	0
Red Lentils	4	20	0
Yellow Peas	5	23	0
Green Peas	5	23	0
Soybean	4	21	0
Flax	45	13	0
Canola	63	34	11

	Chem Fallow	Spring Wheat	Durum Wheat	CPS Wheat
REVENUE PER ACRE				
Estimated Yield (bu./ac.,lb./ac.) (A)		37.1	42.1	39.2
Estimated on Farm Market Price/bu.,lb. (B)		6.57	7.08	5.62
Estimated Gross Revenue/ac (AxB)=(C)		243.90	298.22	220.40
EXPENSES PER ACRE				
Variable Expenses/acre				
Seed		10.62	15.84	11.83
Fertilizer - Nitrogen		31.72	36.02	33.33
- Phosphorus		11.70	13.30	12.24
- Sulphur and Other		0.00	0.00	0.00
Chemical - Herbicides	11.77	17.39	17.39	17.39
- Insecticides/Fungicides	0.00	2.10	2.10	2.10
- Seed Treatments/Innoculants	0.00	4.12	5.03	5.51
Machinery Operating - Fuel	1.70	11.56	11.56	11.56
- Repair	1.71	10.07	10.07	10.07
Custom Work and Hired Labour	0.00	18.25	18.25	18.25
Crop Insurance Premium	0.00	5.19	6.55	5.10
Utilities and Miscellaneous	3.23	3.23	3.23	3.23
Interest on Variable Expenses	1.16	3.53	3.90	3.66
Total Variable Expenses (D)	19.57	129.48	143.24	134.27
Other Expenses/acre				
Building Repair	0.45	0.45	0.45	0.45
Property Taxes	5.46	5.46	5.46	5.46
Business Overhead	1.59	1.59	1.59	1.59
Machinery Depreciation	4.92	29.02	29.02	29.02
Building Depreciation	1.05	1.05	1.05	1.05
Machinery Investment	2.99	17.63	17.63	17.63
Building Investment	0.63	0.63	0.63	0.63
Land Investment	37.03	37.03	37.03	37.03
Total Other Expenses (E)	54.12	92.86	92.86	92.86
Labour & Management (F)				
Total Expenses (D+E+F)=(G)	73.69	222.34	236.10	227.13
RETURN PER ACRE*				
Return Over Variable Expenses (C-D)		114.42	154.98	86.13
Return Over Total Rotation Expenses (C-G)		21.56	62.12	-6.73
BREAK-EVEN YIELD PER ACRE*				
To Cover Variable Expenses		19.69	20.22	23.88
To Cover Total Rotation Expenses		33.82	33.33	40.40
BREAK-EVEN PRICE PER BU./LB.*				
To Cover Variable Expenses		3.49	3.40	3.43
To Cover Total Rotation Expenses		5.99	5.61	5.79

Crops												
Winter Wheat	Malt Barley	Feed Barley	Hybrid Fall Rye	Oats	Corn	Large Green Lentil	Red Lentil	Edible Yellow Peas	Edible Green Peas	Soybean	Flax	Canola
53.1	48.3	59.0	63.7	57.4	75.0	1398.0	1515.0	33.9	33.9	25.0	20.8	33.0
5.41	5.50	3.70	5.50	2.65	3.68	0.31	0.33	8.74	7.01	9.35	10.59	10.11
287.28	265.66	218.30	350.34	152.11	276.00	433.38	499.95	296.29	237.64	233.75	220.27	333.63
10.77	13.85	7.50	58.40	6.96	78.30	46.21	30.65	26.20	20.85	89.60	9.02	59.45
32.79	25.80	31.18	40.86	20.97	40.32	2.15	2.15	2.69	2.69	2.15	24.19	33.87
13.83	10.64	12.77	14.90	7.45	17.56	10.64	10.64	12.24	12.24	11.17	6.92	18.09
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.60
15.65	15.25	15.25	5.48	12.86	17.37	37.91	42.17	24.52	24.52	9.95	20.82	7.83
0.00	0.00	0.00	0.00	0.00	0.00	12.38	12.38	0.59	0.59	0.00	8.36	3.33
5.65	5.06	4.20	0.00	2.77	0.00	11.83	14.84	9.97	9.89	12.10	1.70	0.00
11.56	11.56	11.56	11.56	11.56	12.92	12.92	12.92	12.92	12.92	12.92	11.56	12.24
10.07	10.07	10.07	10.07	10.07	15.71	12.95	12.95	12.95	12.95	12.95	12.95	10.07
18.25	16.75	16.75	16.75	16.75	40.82	17.75	17.75	16.25	16.25	18.25	16.75	17.00
9.27	6.70	6.70	9.20	8.11	12.20	18.42	19.07	6.50	6.50	6.96	10.06	12.87
3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23
5.50	3.33	3.34	7.16	2.82	6.68	5.22	5.00	3.59	3.43	5.02	3.52	5.11
136.57	122.24	122.55	177.61	103.55	245.11	191.61	183.75	131.65	126.06	184.30	129.08	187.69
0.47	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
5.46	5.46	5.46	5.46	5.46	5.46	5.46	5.46	5.46	5.46	5.46	5.46	5.46
1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
29.02	29.02	29.02	29.02	29.02	35.20	29.02	29.02	29.02	29.02	29.02	29.02	29.02
1.10	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
17.63	17.63	17.63	17.63	17.63	21.39	17.63	17.63	17.63	17.63	17.63	17.63	17.63
0.66	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
37.03	37.03	37.03	37.03	37.03	37.03	37.03	37.03	37.03	37.03	37.03	37.03	37.03
92.96	92.86	92.86	92.86	92.86	102.80	92.86	92.86	92.86	92.86	92.86	92.86	92.86
229.53	215.10	215.41	270.47	196.41	347.91	284.47	276.61	224.51	218.92	277.16	221.94	280.54
150.71	143.42	95.75	172.73	48.56	30.89	241.77	316.20	164.64	111.58	49.45	91.19	145.94
57.75	50.56	2.89	79.87	-44.30	-71.91	148.91	223.34	71.78	18.72	-43.41	-1.67	53.09
25.24	22.22	33.12	32.29	39.07	66.61	618.09	556.81	15.06	17.98	19.71	12.19	18.56
42.42	39.11	58.22	49.18	74.12	94.54	917.63	838.20	25.69	31.23	29.64	20.96	27.75
2.57	2.53	2.08	2.79	1.80	3.27	0.14	0.12	3.88	3.72	7.37	6.21	5.69
4.32	4.45	3.65	4.25	3.42	4.64	0.20	0.18	6.62	6.46	11.09	10.67	8.50

DARK BROWN SOIL ZONE 2016

1. Seed price and seeding rate:

	Rate	Price
Spring Wheat	95 lb./ac.	\$ 0.123/lb
Durum Wheat	116 lb./ac.	\$ 0.151/lb
CPS Wheat	126 lb./ac.	\$ 0.103/lb
Winter Wheat	126 lb./ac.	\$ 0.095/lb
Malt Barley	116 lb./ac.	\$ 0.131/lb
Feed Barley	97 lb./ac.	\$ 0.085/lb
Oats	110 lb./ac.	\$ 0.079/lb
Corn	29,000 plants/ac	\$ 0.0027/ plant
Large Green Lentils	91 lb./ac.	\$ 0.508/lb
Red Lentils	56 lb./ac.	\$ 0.547/lb
Edible Yellow Peas	158 lb./ac.	\$ 0.190/lb
Edible Green Peas	156 lb./ac.	\$ 0.152/lb
Soybean	1.4 units	\$64.00/unit
Flax	37 lb./ac.	\$ 0.265/lb
Hybrid Fall Rye	0.8 unit	\$ 73.00/unit
Canola	5 lb./ac.	\$ 11.89/lb

2. Fertilizer

	lb./ac.		
	N	P	S
Spring Wheat	69	25	0
Durum Wheat	74	27	0
CPS Wheat	76	28	0
Winter Wheat	68	29	0
Malt Barley	52	22	0
Feed Barley	64	27	0
Oats	51	19	0
Hybrid Fall Rye	84	31	0
Corn	85	37	0
Large Green Lentils	4	20	0
Red Lentils	4	20	0
Yellow Peas	6	25	0
Green Peas	6	25	0
Soybean	6	25	0
Flax	50	15	0
Canola	72	39	13

	Chem Fallow	Spring Wheat	Durum Wheat	CPS Wheat
REVENUE PER ACRE				
Estimated Yield (bu./ac.,lb./ac.) (A)		43.2	46.5	48.0
Estimated on Farm Market Price/bu.,lb. (B)		6.57	7.08	5.62
Estimated Gross Revenue/ac. (AxB)=(C)		284.00	329.39	269.88
EXPENSES PER ACRE				
Variable Expenses/acre				
Seed		11.73	17.50	12.96
Fertilizer - Nitrogen		37.09	39.78	40.86
- Phosphorus		13.30	14.36	14.90
- Sulphur and Other		0.00	0.00	0.00
Chemical -Herbicides	10.80	21.48	21.48	21.48
- Insecticides/Fungicides	0.00	1.68	1.68	1.68
- Seed Treatments/Innoculants	0.00	4.55	5.56	6.04
Machinery Operating - Fuel	1.70	14.45	14.45	14.45
- Repair	2.35	11.49	11.49	11.49
Custom Work and Hired Labour	0.00	18.00	18.00	18.00
Crop Insurance Premium	0.00	5.65	7.77	5.93
Utilities and Miscellaneous	4.23	4.23	4.23	4.23
Interest on Variable Expenses	1.20	4.02	4.38	4.26
Total Variable Expenses (D)	20.28	147.67	160.68	156.28
Other Expenses/acre				
Building Repair	0.57	0.57	0.57	0.57
Property Taxes	6.16	6.16	6.16	6.16
Business Overhead	2.43	2.43	2.43	2.43
Machinery Depreciation	6.77	33.10	33.10	33.10
Building Depreciation	1.35	1.35	1.35	1.35
Machinery Investment	4.11	20.11	20.11	20.11
Building Investment	0.81	0.81	0.81	0.81
Land Investment	42.70	42.70	42.70	42.70
Total Other Expenses (E)	64.90	107.23	107.23	107.23
Labour & Management (F)				
Total Expenses (D+E+F)=(G)	85.19	254.91	267.92	263.52
RETURN PER ACRE*				
Return Over Variable Expenses (C-D)		136.33	168.71	113.60
Return Over Total Rotation Expenses (C-G)		29.09	61.47	6.36
BREAK-EVEN YIELD PER ACRE*				
To Cover Variable Expenses		22.46	22.68	27.80
To Cover Total Rotation Expenses		38.77	37.82	46.87
BREAK-EVEN PRICE PER BU./LB.*				
To Cover Variable Expenses		3.42	3.46	3.26
To Cover Total Rotation Expenses		5.90	5.76	5.49

Crops												
Winter Wheat	Malt Barley	Feed Barley	Hybrid Fall Rye	Oats	Corn	Large Green Lentil	Red Lentil	Edible Yellow Peas	Edible Green Peas	Soybean	Flax	Canola
59.1	52.9	64.6	70.9	76.5	85.0	1335.0	1508.0	36.9	36.9	30.0	23.1	37.9
5.41	5.50	3.70	5.50	2.65	3.68	0.31	0.33	8.74	7.01	9.35	10.59	10.11
319.74	290.96	239.02	389.94	202.73	312.80	413.85	497.64	322.51	258.67	280.50	244.63	383.17
12.01	15.15	8.27	58.40	8.70	78.30	46.21	30.65	29.99	23.74	89.60	9.82	59.45
36.56	27.96	34.41	45.16	27.42	45.70	2.15	2.15	3.23	3.23	3.23	26.88	38.71
15.43	11.70	14.36	16.49	10.11	19.68	10.64	10.64	13.30	13.30	13.30	7.98	20.75
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.85
14.70	17.22	17.22	9.08	12.86	13.77	37.91	42.17	24.52	24.52	11.83	19.86	7.83
0.00	0.00	0.00	0.00	0.00	0.00	12.38	12.38	0.59	0.59	0.00	8.36	1.66
6.30	5.54	4.63	0.00	5.25	0.00	11.83	14.84	11.41	11.27	12.10	1.85	0.00
14.45	14.45	14.45	14.45	14.45	16.15	16.15	16.15	16.15	16.15	16.15	14.45	15.30
11.49	11.49	11.49	11.49	11.49	17.53	14.77	14.77	14.77	14.77	14.77	14.77	11.49
18.00	17.00	17.00	17.00	17.00	46.22	17.00	17.00	16.25	16.25	18.00	17.00	17.00
9.83	6.32	6.32	8.74	9.08	12.20	17.65	18.70	7.19	7.19	6.96	9.69	11.30
4.23	4.23	4.23	4.89	4.23	4.23	4.23	4.23	4.23	4.23	4.23	4.23	4.23
6.01	3.67	3.71	7.80	3.38	7.11	5.35	5.14	3.97	3.79	5.32	3.78	5.42
149.01	134.73	136.09	193.50	123.97	260.89	196.27	188.82	145.60	139.03	195.49	138.67	198.99
0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16
2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43
33.10	33.10	33.10	33.10	33.10	39.29	33.10	33.10	33.10	33.10	33.10	33.10	33.10
1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
20.11	20.11	20.11	20.11	20.11	23.87	20.11	20.11	20.11	20.11	20.11	20.11	20.11
0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
42.70	42.70	42.70	42.70	42.70	42.70	42.70	42.70	42.70	42.70	42.70	42.70	42.70
107.23	107.23	107.23	107.23	107.23	117.18	107.23	107.23	107.23	107.23	107.23	107.23	107.23
256.25	241.97	243.33	300.73	231.21	378.08	303.51	296.06	252.84	246.27	302.73	245.91	306.23
170.73	156.23	102.93	196.44	78.76	51.91	217.58	308.82	176.91	119.64	85.01	105.96	184.18
63.49	48.99	-4.31	89.21	-28.48	-65.28	110.34	201.58	69.67	12.40	-22.23	-1.28	76.94
27.54	24.50	36.78	35.18	46.78	70.90	633.14	572.20	16.66	19.83	20.91	13.09	19.68
47.36	43.99	65.76	54.68	87.25	102.74	979.06	897.15	28.93	35.13	32.38	23.22	30.29
2.52	2.55	2.11	2.73	1.62	3.07	0.15	0.13	3.95	3.77	6.52	6.00	5.25
4.34	4.57	3.77	4.24	3.02	4.45	0.23	0.20	6.85	6.67	10.09	10.65	8.08

BLACK SOIL ZONE 2016

1. Seed price and seeding rate:

	Rate	Price
Spring Wheat	108 lb./ac.	\$ 0.123/lb
CPS Wheat	144 lb./ac.	\$ 0.103/lb
Winter Wheat	135 lb./ac.	\$ 0.095/lb
Malt Barley	132 lb./ac.	\$ 0.131/lb
Feed Barley	110 lb./ac.	\$ 0.085/lb
Oats	132 lb./ac.	\$ 0.079/lb
Corn	29000 plants/ac	\$ 0.0027/plant
Large Green Lentils	91 lb./ac.	\$ 0.508/lb
Red Lentils	56 lb./ac.	\$ 0.547/lb
Edible Yellow Peas	178 lb./ac.	\$ 0.190/lb
Edible Green Peas	176 lb./ac.	\$ 0.152/lb
Soybean	1.4 units	\$ 64.00/unit
Faba bean	181 lb./ac.	\$ 0.200/lb
Flax	39 lb./ac.	\$ 0.265/lb
Hybrid Fall Rye	0.8 unit	\$ 73.00/unit
Canola	5 lb./ac.	\$ 11.89/lb

2. Fertilizer:

	lb./ac.		
	N	P	S
Spring Wheat	78	29	0
CPS Wheat	87	32	0
Winter Wheat	71	31	0
Malt Barley	58	24	0
Feed Barley	70	29	0
Oats	65	25	0
Hybrid Fall Rye	89	33	0
Corn	100	44	0
Large Green Lentils	4	20	0
Red Lentils	4	20	0
Yellow Peas	6	27	0
Green Peas	6	27	0
Soybean	6	25	0
Faba bean	6	26	0
Flax	53	15	0
Canola	79	43	14

	Chem Fallow	Spring Wheat	CPS Wheat	Winter Wheat
REVENUE PER ACRE				
Estimated Yield (bu./ac.,lb./ac.) (A)		49.0	54.5	62.0
Estimated on Farm Market Price/bu.,lb. (B)		6.57	5.62	5.41
Estimated Gross Revenue/ac (AxB)=(C)		322.13	306.42	335.39
EXPENSES PER ACRE				
Variable Expenses/acre				
Seed		13.34	14.81	12.87
Fertilizer - Nitrogen		41.93	46.77	38.17
- Phosphorus		15.43	17.02	16.49
- Sulphur and Other		0.00	0.00	0.00
Chemical -Herbicides	12.74	21.48	21.48	15.65
- Insecticides/Fungicides	0.00	2.10	3.37	0.00
- Seed Treatments/Innoculants	0.00	5.17	6.90	6.75
Machinery Operating - Fuel	1.70	18.06	18.06	18.06
- Repair	2.90	13.14	13.14	13.14
Custom Work and Hired Labour	0.00	19.00	19.00	19.00
Crop Insurance Premium	0.00	6.45	7.07	10.13
Utilities and Miscellaneous	4.89	4.89	4.89	4.89
Interest on Variable Expenses	1.40	4.51	4.83	6.52
Total Variable Expenses (D)	23.63	165.50	177.34	161.67
Other Expenses/acre				
Building Repair	0.76	0.76	0.76	0.76
Property Taxes	6.91	6.91	6.91	6.91
Business Overhead	2.87	2.87	2.87	2.87
Machinery Depreciation	8.37	37.85	37.85	37.85
Building Depreciation	1.80	1.80	1.80	1.80
Machinery Investment	5.08	22.99	22.99	22.99
Building Investment	1.08	1.08	1.08	1.08
Land Investment	41.23	41.23	41.23	41.23
Total Other Expenses (E)	68.10	115.49	115.49	115.49
Labour & Management (F)				
Total Expenses (D+E+F)=(G)	91.72	280.98	292.82	277.15
RETURNS PER ACRE*				
Return over Variable Expenses (C-D)		156.63	129.08	173.72
Return over Total Rotation Expenses (C-G)		41.15	13.60	58.24
BREAK-EVEN YIELD PER ACRE*				
To Cover Variable Expenses		25.17	31.54	29.89
To Cover Total Rotation Expenses		42.74	52.08	51.23
BREAK-EVEN PRICE PER BU./LB.*				
To Cover Variable Expenses		3.38	3.25	2.61
To Cover Total Rotation Expenses		5.73	5.37	4.47

Crops												
Malt Barley	Feed Barley	Hybrid Fall Rye	Oats	Corn	Large Green Lentil	Red Lentil	Edible Yellow Pea	Edible Green Pea	Soybean	Faba bean	Flax	Canola
57.9	70.8	74.5	96.9	100.0	1279.0	1484.0	39.2	39.2	30.0	1456.0	24.3	41.2
5.50	3.70	5.50	2.65	3.68	0.31	0.33	8.74	7.01	9.35	0.14	10.59	10.11
318.46	262.24	409.74	257.13	368.09	395.47	494.55	342.46	274.64	280.61	205.63	257.34	416.56
17.24	9.37	58.40	10.44	78.30	46.21	30.65	33.79	26.78	89.60	36.28	10.35	59.45
31.18	37.63	47.85	34.94	53.76	2.15	2.15	3.23	3.23	3.23	3.23	28.49	42.47
12.77	15.43	17.56	13.30	23.41	10.64	10.64	14.36	14.36	13.30	13.83	7.98	22.88
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.85
17.22	17.22	5.48	12.86	17.37	38.33	42.17	26.87	26.87	13.77	20.27	20.28	7.83
0.00	0.00	0.00	0.00	0.00	16.91	16.91	0.59	0.59	0.00	0.00	11.92	18.32
6.30	5.25	0.00	4.16	0.00	11.83	14.84	12.86	12.71	12.10	23.58	1.95	0.00
18.06	18.06	18.06	18.06	20.19	20.19	20.19	20.19	20.19	20.19	18.70	18.06	19.13
13.14	13.14	13.14	13.14	19.65	16.89	16.89	16.89	16.89	16.89	16.89	16.89	13.14
17.00	17.00	17.00	17.00	52.86	18.75	18.75	16.25	16.25	19.00	15.75	17.00	17.00
6.08	6.08	9.02	9.63	12.20	17.52	19.18	7.01	7.01	6.96	9.91	10.55	11.11
4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89
4.03	4.03	8.04	3.88	7.91	5.72	5.52	4.39	4.19	5.60	4.57	4.15	6.22
147.91	148.10	199.44	142.30	290.54	210.03	202.78	161.32	153.96	205.53	167.90	152.51	228.29
0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91
2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87
37.85	37.85	37.85	37.85	44.04	37.85	37.85	37.85	37.85	37.85	37.85	37.85	37.85
1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
22.99	22.99	22.99	22.99	26.75	22.99	22.99	22.99	22.99	22.99	22.99	22.99	22.99
1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08
41.23	41.23	41.23	41.23	41.23	41.23	41.23	41.23	41.23	41.23	41.23	41.23	41.23
115.49	115.49	115.49	115.49	125.44	115.49	115.49	115.49	115.49	115.49	115.49	115.49	115.49
263.39	263.58	314.92	257.78	415.97	325.51	318.26	276.80	269.44	321.01	283.38	267.99	343.77
170.55	114.14	210.30	114.83	77.55	185.44	291.77	181.14	120.68	75.08	37.73	104.83	188.27
55.07	-1.34	94.82	-0.65	-47.88	69.96	176.29	65.66	5.20	-40.40	-77.75	-10.65	72.79
26.89	39.98	36.26	53.63	78.93	679.24	608.47	18.47	21.97	21.97	1188.82	14.40	22.58
47.89	71.16	57.26	97.15	113.01	1052.74	955.00	31.68	38.46	34.32	2006.54	25.31	34.00
2.55	2.09	2.68	1.47	2.91	0.16	0.14	4.12	3.93	6.85	0.12	6.28	5.54
4.55	3.72	4.23	2.66	4.16	0.25	0.21	7.06	6.87	10.70	0.19	11.03	8.34

SPECIALTY CROPS 2016

1. Seed price and seeding rate:

	Soil zone	Rate	Price
Buckwheat	Dk Brown	53lb./ac.	\$ 0.563/lb
Camelina	Brown	6 lb./ac.	\$ 2.750/lb
Canaryseed	Dk Brown	37 lb./ac.	\$ 0.297/lb
Caraway	Black	12 lb./ac.	\$ 0.950/lb
Desi Chickpea	Brown	93 lb./ac.	\$ 0.297/lb
Kabuli Chickpea (9 mm)	Brown	145 lb./ac.	\$ 0.328/lb
Kabuli Chickpea (7 mm)	Brown	109 lb./ac.	\$ 0.203/lb
Coriander	Dk Brown	25 lb./ac.	\$ 0.750/lb
Dill	Black	8 lb./ac.	\$ 0.750/lb
Fenugreek	Brown	30 lb./ac.	\$ 0.400/lb
Yellow Mustard	Brown	10 lb./ac.	\$ 0.561/lb
Oriental Mustard	Brown	6 lb./ac.	\$ 0.529/lb
Brown Mustard	Brown	6 lb./ac.	\$ 0.386/lb
Pinto Bean	Dk Brown	99 lb./ac.	\$ 0.453/lb
Sunflower (LMTS)	Dk Brown	19000 plants	\$ 0.002/lb
Sunflower (EMSS)	Dk Brown	19000 plants	\$ 0.003/lb
Quinoa	Black	10 lb/ac	\$ 5.000/lb

2. Fertilizer:

	lb./ac.			
	N	P	K	S
Buckwheat	32	5	0	0
Camelina	60	30	0	20
Canaryseed	35	30	18	10
Caraway	100	20	18	0
Desi Chickpea	4	20	0	0
Kabuli Chickpea (9 mm)	4	20	0	0
Kabuli Chickpea (7 mm)	4	20	0	0
Coriander	35	20	0	0
Dill	30	20	18	0
Fenugreek	3	16	0	0
Yellow Mustard	27	14	0	4
Oriental Mustard	32	17	0	5
Brown Mustard	31	17	0	5
Pinto Bean	48	15	0	0
Sunflower (LMTS)	36	10	0	0
Sunflower (EMSS)	33	9	0	0
Quinoa	70	30	18	10

CROP	Buckwheat	Camelina	Canaryseed	Caraway**
Type of Rotation	Re-crop	Re-crop	Re-crop	Re-crop
Rotation Years Required to Grow This Crop	1	1	1	3
Soil Zone	DBrown	Brown	DBrown	Black
REVENUE PER ACRE				
Estimated Yield (bu./ac.,lb./ac.) (A)	610.0	1190.0	1072.0	577.2
Estimated On Farm Market Price/bus.,lb. (B)	0.21	0.22	0.24	0.58
Estimated Gross Revenue/ac (AxB)=(C)	127.31	261.80	260.22	334.78
EXPENSES PER ACRE				
Variable Expenses/acre				
Seed	29.68	16.50	13.39	11.40
Fertilizer -Nitrogen	17.20	32.26	18.82	53.76
- Phosphorus	2.66	15.96	15.96	10.64
- Sulphur and Other	0.00	8.36	6.90	6.90
Chemical*** - Herbicides	9.45	10.87	31.59	22.58
- Insecticides/Fungicides	0.00	0.00	7.29	0.00
- Seed Treatment/Innoculant	2.65	0.00	0.00	0.60
Machinery Operating - Fuel	16.15	17.85	17.00	34.00
- Repair	11.49	10.07	11.49	26.27
Custom Work and Hired Labour	15.75	16.25	18.00	15.75
Crop Insurance Premium	0.00	3.07	9.93	38.26
Utilities and Miscellaneous	4.23	3.23	4.23	9.77
Interest on Variable Expenses	3.06	3.76	4.33	12.88
Total Variable Expenses (D)	112.32	138.18	158.93	242.81
Other Expenses/acre				
Building Repair	0.57	0.45	0.57	1.52
Property Taxes	6.16	5.46	6.16	13.82
Business Overhead	2.43	1.59	2.43	5.72
Machinery Depreciation	33.10	29.02	33.10	75.70
Building Depreciation	1.35	1.05	1.35	3.60
Machinery Investment	20.11	17.63	20.11	45.98
Building Investment	0.81	0.63	0.81	2.16
Land Investment	42.70	37.03	42.70	82.46
Total Other Expenses (E)	107.23	92.86	107.23	230.96
Labour and Management (F)				
Total Expenses (D+E+F)=(G)	219.55	231.04	266.16	473.77
RETURNS PER ACRE				
Return Over Variable Expenses (C-D)	14.99	123.62	101.29	91.97
Return Over Total Rotation Expenses (C-G)	-92.24	30.76	-5.94	-138.99
BREAK-EVEN YIELD PER ACRE				
To Cover Variable Expenses	538.16	628.09	654.74	209.32
To Cover Total Rotation Expenses	1051.95	1050.17	1096.50	408.42
BREAK-EVEN PRICE PER BU./LB.				
To Cover Variable Expenses	0.23	0.12	0.15	0.21
To Cover Total Rotation Expenses	0.36	0.19	0.25	0.41

* Yield and costs are for Dryland Pinto Beans only. **Expenses shown are from two years (year 1 and 2) and revenue is from two years (year 2 and 3) of Caraway seed production. To obtain the average return per acre per year, the figures per acre year should be divided by 2. The expenses associated with the cover crop in year one are covered by the revenue from the cover crop. *** Only registered chemicals are included.

#1 Desi Chickpea	#1-9mm Kabuli Chickpea	#1-7mm Kabuli Chickpea	Coriander	Dill	Fenugreek	Yellow Mustard	Oriental Mustard	Brown Mustard	Pinto Bean*	Sunflower (LMTS)	Sunflower (EMSS)	Quinoa
Re-crop	Re-crop	Re-crop	Re-crop	Re-crop	Re-crop	Re-crop	Re-crop	Re-crop	Re-crop	Re-crop	Re-crop	Re-crop
1	1	1	1	1	1	1	1	1	1	1	1	1
Brown	Brown	Brown	DBrown	Black	Brown	Brown	Brown	Brown	DBrown	DBrown	DBrown	Black
1223.0	1280.0	1309.0	846.0	800.0	900.0	715.0	855.0	815.0	1396.0	1353.0	1232.0	1000.0
0.23	0.26	0.16	0.38	0.45	0.14	0.39	0.37	0.27	0.25	0.19	0.19	0.60
284.22	327.47	208.03	321.48	360.00	126.00	278.30	314.09	218.63	346.21	262.48	239.01	600.00
27.70	47.45	22.24	18.75	6.00	11.84	5.60	2.92	2.22	44.76	38.00	53.20	50.00
2.15	2.15	2.15	18.82	26.88	1.61	14.52	17.20	16.67	25.80	19.35	17.74	37.63
10.64	10.64	10.64	10.64	10.64	8.51	7.45	9.04	9.04	7.98	5.85	5.32	15.96
0.00	0.00	0.00	0.00	6.90	0.00	1.67	2.09	2.09	0.00	0.00	0.00	11.08
15.75	15.75	15.75	35.70	29.27	20.27	24.72	16.31	16.31	30.08	32.52	32.52	1.88
22.63	45.26	22.63	11.11	0.00	0.00	3.32	3.32	3.32	10.70	2.82	2.82	0.00
12.57	26.81	20.22	1.25	0.00	2.96	0.00	0.00	0.00	25.22	0.00	0.00	0.00
18.70	18.70	18.70	17.00	14.45	14.45	17.85	17.85	17.85	16.15	18.70	18.70	14.45
12.20	12.20	12.20	11.49	13.14	10.07	10.07	10.07	10.07	13.92	13.92	13.92	13.14
15.75	15.75	15.75	15.75	15.75	15.75	16.25	16.25	16.25	15.75	16.75	16.75	15.75
16.80	26.98	21.91	25.92	0.00	0.00	12.87	10.31	8.85	13.54	11.99	10.49	10.76
3.23	3.23	3.23	4.23	4.89	3.23	3.23	3.23	3.23	4.23	4.23	4.23	4.89
4.43	6.30	4.63	4.78	3.58	2.48	3.29	3.04	2.97	5.83	4.60	4.92	4.92
162.55	231.22	170.05	175.44	131.50	91.17	120.84	111.63	108.87	213.96	168.73	180.61	180.46
0.45	0.45	0.45	0.57	0.76	0.45	0.45	0.45	0.45	0.57	1.35	0.57	0.76
5.46	5.46	5.46	6.16	6.91	5.46	5.46	5.46	5.46	6.16	6.16	6.16	6.91
1.59	1.59	1.59	2.43	2.86	1.59	1.59	1.59	1.59	2.43	2.43	2.43	2.86
29.02	29.02	29.02	33.10	37.85	29.02	29.02	29.02	29.02	33.10	33.10	33.10	37.85
1.05	1.05	1.05	1.35	1.80	1.05	1.05	1.05	1.05	1.35	1.35	1.35	1.80
17.63	17.63	17.63	20.11	22.99	17.63	17.63	17.63	17.63	20.11	20.11	20.11	22.99
0.63	0.63	0.63	0.81	1.08	0.63	0.63	0.63	0.63	0.81	0.81	0.81	1.08
37.03	37.03	37.03	42.70	41.23	37.03	37.03	37.03	37.03	42.70	42.70	42.70	41.23
92.86	92.86	92.86	107.23	115.48	92.86	92.86	92.86	92.86	107.23	108.01	107.23	115.48
255.41	324.08	262.91	282.67	246.98	184.03	213.70	204.49	201.73	321.19	276.74	287.84	295.94
121.67	96.25	37.98	146.04	228.50	34.83	157.46	202.46	109.76	132.25	93.75	58.40	419.54
28.81	3.39	-54.88	38.81	113.02	-58.03	64.60	109.60	16.90	25.02	-14.26	-48.83	304.06
699.45	903.77	1070.00	461.68	292.22	651.21	310.46	303.88	405.84	862.74	869.74	930.98	300.77
1099.02	1266.72	1654.29	743.88	548.85	1314.49	549.04	556.65	751.99	1295.13	1426.51	1483.73	493.24
0.13	0.18	0.13	0.21	0.20	0.13	0.17	0.13	0.13	0.17	0.12	0.15	0.18
0.21	0.25	0.20	0.33	0.31	0.20	0.30	0.24	0.25	0.23	0.20	0.23	0.30

SPECIALTY CROP AGRONOMIC INFORMATION 2016 CROP

Crop	Type	lb/bu	Adaptation	Seed Rate (lb/ac)	Est. Seeds per lb	Weed Pest & Disease Fertilizer Advice
Buckwheat	Annual grain	48	Widely adapted but sensitive to frost anytime, and heat and drought during seed set.	35 - 55	13,000 - 16,000	Several herbicides registered for grassy weed control. Seed on clean field. Crop lodges if too much nitrogen
Camelina	Annual oilseed	50	Well adapted to Saskatchewan conditions. It is highly tolerant of heat and drought, cold tolerant, matures early, very suitable for warm and dry regions.	5	300,000	Assure II herbicide (quizalofop-P ethyl) is registered under the User Requested Minor-Use Label Expansion Program. The most effective weed control is to seed early and seed into a clean field.
Canaryseed	Annual bird-seed	50	Moderate moisture requirements, shallow rooted.	22 - 35	65,000	Several herbicides registered. Potash fertilizer may be required.
Caraway	Biennial spice	35	Widely adapted, yields best under moderate moisture.	10	90,000	Several herbicides are registered.
Desi Chickpea	Annual pulse	60	Indeterminate crop, Brown and Dark Brown soils.	80 - 90	1,350 - 2,300	Several registered herbicides. Seed treatment and fungicide use recommended.
Kabuli Chickpea 9mm	Annual pulse	60	Indeterminate crop, Brown soils. Seed after soil reaches 10°C at seeding depth.	120 - 180	1,100 - 2,000	Several registered herbicides. Seed treatment and fungicide use recommended.
Kabuli Chickpea 7mm	Annual pulse	60	Indeterminate crop, Brown soils. Seed after soil reaches 10°C at seeding depth.	100 - 110	1,200 - 2,200	Several registered herbicides. Seed treatment and fungicide use recommended.
Coriander	Annual spice	22	Heat loving, late maturing.	25	50,000	Several herbicides are registered.
Dill	Annual spice	27	Highest yield in cool conditions, moderate moisture.	5 - 9	90,000	Lorox and Edge are registered herbicides.
Fenugreek	Annual legume	60	Indeterminate crop, Brown and Dark Brown soil zones. Late maturing.	22 - 30	23,000 - 27,000	Odyssey, Select and Centurion herbicides are registered. Use clean fields.
Yellow Mustard	Annual oilseed	50	Better seed quality in drier areas.	9 - 12	100,000	Several registered herbicides.
Brown Mustard	Annual oilseed	50	More heat and drought tolerant than canola.	7 - 10	200,000	Several registered herbicides.
Oriental Mustard	Annual oilseed	50	More heat and drought tolerant than canola.	5 - 9	200,000	Several registered herbicides.
Pinto Bean narrow row and dry land	Annual pulse	60	Heat and moisture loving. Seed in late May. No frost tolerance.	80 - 140	1,100 - 1,600	Several registered herbicides. Seed treatment recommended.
Standard Sunflower	Annual oilseed	30	High heat requirements, southeast Saskatchewan.	5	4,500 - 6,800	Trifluralin, Edge and Select are registered herbicides.
Early Short Statured Sunflower	Annual oilseed	30	Moderate heat requirements. Brown, Dark Brown and Thin Black soils.	7 - 10	11,000 - 13,500	Trifluralin, Edge and Select are registered herbicides.
Quinoa	Annual pseudo-cereal	50	Well adapted to areas near or north of the Yellowhead Highway. Sensitive to early frost and heat and drought during seed set.	10	100,000	No herbicides, fungicides or pesticides are registered. Potash and Sulphur may be required.

Crop Height inches	Days to Maturity	Harvest Method	Safe Storage Moisture	Crop Quality Factors	Markets	Expected Yield Range (lb/ ac)
40 - 60	80 - 90	Swath when 75 per cent mature.	< 16%	Tan coloured seed, do not mix old (reddish-brown dehulled) and new (greenish dehulled) crop.	Human food	550 - 700
35	85 - 100	Direct combine or swath and combine. Direct combining is recommended due to potential damage from wind and because shattering losses are minimal. If swathing is necessary, it should be done when 75 per cent of the crop has turned yellow.	< 8%	Orange/brown seeds borne in pear shaped capsules.	Industrial oil	1,000 –1,500
40 - 60	95 - 105	Swath and combine or direct combine. Shatter resistant.	< 13%	Avoid dehulling the seed.	Birdseed	700 - 1,050
12 - 28	Biennial, matures in early August	Swath when approximately 75 per cent of seeds have turned brown.	< 10%	Brown with dark stripes. Avoid green seed.	Flavouring	450 - 700
12 - 20	110 - 120	Direct combine or swath and combine.	< 14%	Sound whole seed, avoid seed damage.	Human food	1,050 - 1,450
14 - 20	110 - 125	Direct combine or swath and combine.	< 14%	Sound whole seed, avoid seed damage. Light coloured seed coat, green seed.	Human food	900 - 1,300
14 - 20	110 - 120	Direct combine or swath and combine.	< 14%	Sound whole seed, avoid seed damage. Light coloured seed coat, green seed.	Human food	1,000 - 1,400
24 - 40	95 - 110	Direct combine or swath then immediately combine.	< 10%	Fully mature brown seeds, splits below five per cent.	Flavourings and perfumes	550 - 800
40	105 - 115	Swath and combine or direct cut	< 10%	Clean seed, oil content.	Flavouring	270 - 1,000
12 - 24	115 - 130	Resists shattering, direct combine or swath and combine.	< 12%	Golden coloured seed.	Spice ingredient, pharmaceutical, health food	550 - 900
30 - 40	90 - 93	Direct combine or swath and combine.	< 9.5%	Bright yellow seed.	Condiment	550 - 700
40 - 48	91 - 94	Swath and combine.	< 9.5%	Dark reddish brown seed.	Condiment	620 - 900
40 - 48	91 - 93	Swath and combine.	< 9.5%	Bright golden seed.	Condiment	620 - 900
12 - 20	95 - 112	Pick-up reel and floating cutter bar required. Swathing preferred. Swath when tough.	14 - 16%	Sound whole seed, avoid seed damage.	Human food	800 - 1,500 Dry land
60	110 - 125	Direct combine with sunflower attachment.	< 10%	Premiums for high oil content.	Edible oil and confection	700 - 1,000
24 - 35	99 - 103	Swath and combine or direct combine with standard equipment.	< 10%	Premiums for high oil content.	Edible oil and birdseed	700 - 1,000
33-40	90-125	Direct combine or swath and combine. Sprouts easily in the swath.	< 10%	Cannot be planted following wheat or canola	Food. All production is contracted	750-1250

CROP PRODUCTION COSTS (\$/ACRE) MY FARM	USE THIS WORKSHEET TO ADJUST THE CROP BUDGETS TO YOUR FARM COSTS			
REVENUE PER ACRE				
A Estimated yield (bu./ac.; lb./ac.)				
B Estimated on-farm market price per bushel or per pound				
C Estimated Gross Revenue per acre				
EXPENSES PER ACRE				
Variable Expenses per acre				
Seed				
Fertilizer: Nitrogen				
Phosphorus				
Sulphur and Other				
Chemical: Herbicides/Fungicides				
Insecticides				
Seed Treatment/Innoculant				
Machinery Operating: Fuel				
Repair				
Custom Work and Hired Labour				
Crop Insurance Premium				
Utilities and Miscellaneous				
Interest on Variable Expenses				
D Total Variable Expenses per acre				
Other Expenses per acre				
Building Repair				
Property Taxes				
Business Overhead				
Machinery Depreciation				
Building Depreciation				
Machinery Investment				
Building Investment				
Land Investment				
E Total Other Expenses				
F Labour and Management*				
G Total Expenses per acre (D+E+F)				
H Summerfallow cost				
I Total Rotation Expense (G+H)				
RETURNS PER ACRE				
Return over Variable Expenses (C-D)				
Return over Total Rotational Expenses (C-I)				
BREAK-EVEN YIELD PER ACRE				
(lb./ac. or bu./ac.)**				
To Cover Variable Expenses				
To Cover Total Rotation Expenses				
BREAK-EVEN PRICE				
(per bushel or per pound)**				
To Cover Variable Expenses				
To Cover Total Rotation Expenses				

* These budgets do not include an estimate for owner/operator labour and management. Farm managers need to determine their own actual labour and management costs and add it to total expenses.

** The break-even yields and prices for summerfallow crops should include the previous year's tillage fallow expenses.

An electronic version of this spreadsheet is available at www.saskatchewan.ca/agriculture. To download, search for "Crop Planner".

2016 CROP ROTATION WORKSHEET

There is value in looking at the effect of rotations on your long-term profitability. This tool looks at the net returns per rotation acre. The example shown here is based on estimates from the Black Soil Zone. The actual costs and returns should be based on your own projections. Show the complete rotation from the first year to the last year.

This worksheet shows both 'returns over total expenses' and 'returns over variable expenses'. Note that in year one, the summerfallow costs are included in 'canola on fallow'.

CROP ROTATION RETURNS

	Rotation 1			Rotation 2			Rotation 3			Rotation 4		
	Crop	Return over Total Expenses (\$/ac)	Return over Variable Expenses (\$/ac)	Crop	Return over Total Expenses (\$/ac)	Return over Variable Expenses (\$/ac)	Crop	Return over Total Expenses (\$/ac)	Return over Variable Expenses (\$/ac)	Crop	Return over Total Expenses (\$/ac)	Return over Variable Expenses (\$/ac)
Year 1	Chem Fallow	-91.72	-23.63	Spring Wheat	41.15	156.63	Chem Fallow	-91.72	-23.63	CPS Wheat	13.60	129.08
Year 2	Flax	-10.65	104.83	Large Green Lentil	69.96	185.44	Canola	72.79	188.27	Large Green Lentil	69.96	185.44
Year 3	Spring Wheat	41.15	156.63	CPS Wheat	13.60	129.08	Spring Wheat	41.15	156.63	Canary seed	-5.94	101.29
Year 4				Canola	72.79	188.27	Large Green Lentil	69.96	185.44	Flax	-10.65	104.83
Year 5							CPS Wheat	13.60	129.08	Spring Wheat	41.15	156.63
Year 6										Canola	72.79	188.27
Total returns		-61.23	237.84		197.49	659.43		105.77	635.81		180.89	865.55
Total number of years in rotation		3	3		4	4		5	5		6	6
Return per rotation acre per year		-20.41	79.28		49.37	164.86		21.15	127.16		30.15	144.26

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