

2006 CEREAL GUIDE TO CULTIVAR

& PESTICIDE SELECTION

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2-ROW BARLEY – 2006 RECOMMENDATION – MULTI-YEAR MEANS

Cultivar	Relative yield (%)	Yield (t/ha)	Station Yield 3 year average (2003-2005)								Maturity (days after planting)	Lodging (0-9) ¹	Test Weight (kg/hL)
			Hartland NB		Canning NS		Truro NS		Harrington PEI				
			Yield (t/ha)	Rank	Yield (t/ha)	Rank	Yield (t/ha)	Rank	Yield (t/ha)	Rank			
COVERED BARLEY													
AC QUEENS	102	4.66	3.79	3	4.42	1	5.03	3	3.90	2	94	3	67
AC STERLING	96	4.39	3.94	2	4.15	2	5.30	1	3.74	3	94	2	68
ISLAND	102	4.63	4.03	1	4.07	3	5.20	2	3.93	1	92	2	68
Average	100	4.56	3.92		4.21		5.18		3.86				
HULLESS BARLEY													
AC ALBERTE		3.80	3.19		3.15		4.30		2.91		91	2	74
Cultivar	Distributor	Height (cm)	1000 Kernel Weight (g)	Threshability (0-9) ²	Disease Resistance (0-9) ³								
					Net/Spot Blotch	Scald	Powdery Mildew	Fusarium Head Blight					
COVERED BARLEY													
AC QUEENS	Meadowbrook	83	49	2	3	3	1	3					
AC STERLING	SeCan	78	46	2	3	3	1	3					
ISLAND	Terio Seeds	81	48	2	3	2	0	3					
HULLESS BARLEY													
AC ALBERTE	Semican	75	44	2	4	3	0	3					

6-ROW BARLEY – 2006 RECOMMENDATION – MULTI-YEAR MEANS

Cultivar	Relative yield (%)	Yield (t/ha)	Station Yield 3 year average (2003-2005)								Maturity (days after planting)	Lodging (0-9) ¹	Test Weight (kg/hL)
			Hartland NB		Canning NS		Truro NS		Harrington PEI				
			Yield (t/ha)	Rank	Yield (t/ha)	Rank	Yield (t/ha)	Rank	Yield (t/ha)	Rank			
AC ALMA	99	4.82	4.11	4	3.43	2	6.13	1	3.88	4	94	2	63
AC LEGEND	103	5.00	4.80	1	3.77	1	5.65	4	4.14	1	94	3	64
AC MAPLE	102	4.94	4.18	3	2.93	5	6.02	2	4.12	2	94	2	64
AC WESTECH	101	4.91	4.28	2	3.40	3	5.75	3	4.01	3	95	2	65
CHAPAIS	95	4.64	3.80	5	3.13	4	5.17	5	3.73	5	93	3	63
Average	100	4.86	4.23		3.33		5.74		3.98				
Cultivar	Distributor	Height (cm)	1000 Kernel Weight (g)	Threshability (0-9) ²	Disease Resistance (0-9) ³								
					Net/Spot Blotch	Scald	Powdery Mildew	Fusarium Head Blight					
AC ALMA	Grand Falls Milling	85	45	4	2	3	4	4					
AC LEGEND	SeCan	74	45	5	3	3	3	5					
AC MAPLE	Co-op Atlantic	70	41	5	3	3	3	4					
AC WESTECH	Grand Falls Milling	87	41	1	2	4	2	5					
CHAPAIS	SeCan	78	45	2	3	4	3	4					

- 0 = no lodging; 9= fully lodged
- 0 = threshes well ; 9= threshes poorly
- 0 = resistant; 9= highly susceptible

OAT – 2006 RECOMMENDATION – MULTI-YEAR MEANS

Cultivar	Relative yield (%)	Yield (t/ha)	Station Yield 3 year average (2003-2005)						Maturity (days after planting)	Lodging (0-9) ¹	Test Weight (kg/hl)
			Hartland NB		Truro NS		Harrington PEI				
			Yield (t/ha)	Rank	Yield (t/ha)	Rank	Yield (t/ha)	Rank			
COVERED OAT											
AC RIGODON	98	4.87	3.46	4	5.61	1	4.14	3	104	4	48
CAPITAL	100	4.95	3.59	2	5.13	4	4.36	2	103	5	46
NOVA	98	4.87	3.49	3	5.58	2	4.06	4	103	5	49
TRIPLE CROWN	103	5.12	3.62	1	5.25	3	4.37	1	104	4	46
Average	100	4.95	3.54		5.39		4.23				
HULLESS OAT											
AC BATON	102	3.22	2.40	1	3.06	2	2.48	2	105	4	56
AC ERNIE ^{OC}	98	3.33	2.37	2	3.68	1	2.72	1	105	3	59
Average	100	3.28	2.39		3.37		2.60				

Cultivar	Distributor	Height (cm)	1000 Kernel Weight (g)	Hull (%)	Seed Color	Disease Resistance (0-9) ²	
						Fusarium Head Blight	Septoria
COVERED OAT							
AC RIGODON	SeCan	115	35	24	White	2	4
CAPITAL	SeCan	111	31	23	White	2	5
NOVA	SeCan	115	32	24	White	2	5
TRIPLE CROWN	Co-op Atlantic	113	32	25	White	2	4
HULLESS OAT							
AC BATON	SeCan	113	31	3		3	5
AC ERNIE ^{OC}	C & M Seeds	111	27	2		3	4

SPRING WHEAT (Hard Red) – 2006 RECOMMENDATION – MULTI-YEAR MEANS

Cultivar	Relative yield (%)	Yield (t/ha)	Station Yield 3 year average (2003 -2005)								Maturity (days after planting)	Lodging (0-9) ¹
			Hartland NB		Canning NS		Truro NS		Harrington PEI			
			Yield (t/ha)	Rank	Yield (t/ha)	Rank	Yield (t/ha)	Rank	Yield (t/ha)	Rank		
FEED												
AC HARTLAND	103	4.64	4.07	2	3.43	1	5.11	1	4.19	1	107	2
AC NORBORO ^{OC}	97	4.38	4.13	1	2.78	5	4.51	3	2.99	5	105	2
AC WILMOT ^{OC}	96	4.32	3.97	4	2.85	4	4.50	4	3.08	4	106	1
BELVEDERE ^{OC}	95	4.29	4.01	3	3.02	3	4.48	5	3.12	3	106	2
HOFFMAN ^P	104	4.68	3.82	5	3.03	2	5.01	2	4.14	2	108	2
NASS ^P	106	4.78	*	*	*	*	*	*	*	*	106	2
Average	100	4.52	4.00		3.02		4.72		3.50			
MILLING												
AC HELENA	101	4.60	4.09	1	3.02	3	4.67	2	4.16	1	107	2
AC WALTON ^{OC}	92	4.19	3.94	3	2.95	4	4.56	4	3.38	4	107	1
BROOKFIELD ^P	106	4.82	4.08	2	3.67	1	4.72	1	4.06	2	107	1
Average	100	4.54	3.90		3.29		4.63		3.76			

Cultivar	Distributor	Milling quality ³	Height (cm)	Test Weight (kg/hL)	1000 Kernel Weight (g)	Disease resistance (0-9) ²		
						Powdery mildew	Fusarium Head Blight	Septoria
FEED								
AC HARTLAND	Terio Seeds	Feed	101	75	34	0	6	3
AC NORBORO ^{OC}	Meadowbrook	Feed	96	75	34	3	6	4
	Nabuurs							
AC WILMOT ^{OC}	CSGA	Feed	95	77	36	2	6	3
BELVEDERE ^{OC}	CSGA	Feed	99	75	34	2	6	3
HOFFMAN ^P	Co-op Atlantic	Feed	103	77	40	0	3	3
NASS ^P	SeCan	Feed	101	77	35	0	3	3
MILLING								
AC HELENA	Meadowbrook	Strong Blend	99	77	37	0	6	4
AC WALTON ^{OC}	SeCan	Strong Blend	99	74	35	0	4	4
BROOKFIELD ^P	Grand Falls Milling	Strong Blend	103	78	35	0	5	3

1. 0= no lodging; 9=fully lodged
2. 0= resistant; 9=highly susceptible

3. The market preference is high for Self-Bakers, medium for strong blends and low for medium blends with a grain protein of 13.5% which may be applying one or more split applications of nitrogen during the growing

P= Provisional: New variety that shows strong yield/agronomic traits.
OC=Out-Classed: variety that is now out performed by newer ones and/or pedigreed seed is no longer available, and as a result, may be removed from the recommended list.

* data not available

WINTER WHEAT (Hard Red) – 2006 RECOMMENDATION – MULTI-YEAR MEANS

Cultivar	Relative yield (%)	Yield (t/ha)	Station Yield 3 year average (2003 -2005)								Maturity (days from April 30 th)	Lodging (0-9) ¹
			Hartland NB		Canning NS		Truro NS		Harrington PEI			
			Yield (t/ha)	Rank	Yield (t/ha)	Rank	Yield (t/ha)	Rank	Yield (t/ha)	Rank		
FEED												
AC GRANDVIEW	101	5.45	4.18	1	4.97	1	5.65	2	4.00	1	64	2
AC WINSLOE	99	5.30	4.00	2	4.29	2	6.13	1	3.44	2	62	2
Average	100	5.38	4.09		4.63		5.89		3.72			
MILLING												
AC SAMPSON		5.49	4.45		4.60		6.33		4.17		63	2
Cultivar	Distributor	Milling quality ³	Winter survival (%)	Height (cm)	Test Weight (kg/hL)	1000 Kernel Weight (g)	Disease resistance (0-9) ²					
							Powdery mildew	Fusarium Head Blight	Septoria			
FEED												
AC GRANDVIEW	Nabuurs	Feed	89	109	78	34	2	5	3			
AC WINSLOE	Nabuurs	Feed	90	90	76	37	1	5	4			
MILLING												
AC SAMPSON	Meadowbrook	Strong Blend	91	97	76	39	2	4	4			

1. 0= no lodging; 9=fully lodged
2. 0= resistant; 9=highly susceptible

3. The market preference is high for Self-Bakers, medium for strong blends and low for medium blends with a grain protein of 13.5% which may be applying one or more split applications of nitrogen during the growing season.

VARIETY DISTRIBUTORS

C & M Seeds Road 3 Palmerston, ON N0G 2P0 Tel: (519) 343-2126 Fax: (519) 343-3792	Co-op Atlantic Agriculture Division P.O. Box 750 123 Halifax St. Moncton, NB E1C 8N5 Tel: (506) 858-6356 Fax: (506) 858-6470 http://www.co-opsonline.com	CSGA Members (All pedigreed seed grown in the Maritimes are by members of the Canadian Seeds Growers Association) P. O. Box 8455, Suite 202 240 Catherine St. Ottawa, ON E1G 3T1 Tel: (613) 236-0497 Fax: (613) 563-7855 http://www.seedgrowers.ca	Grand-Falls Milling 45, CN Road P.O. Box 7001 Grand-Falls, NB E3Z 2L1 Tel: (506) 475-8040 Fax: (506) 473-4466
Meadowbrook Farms Box 3113 Charlottetown, PEI C1A 7N9 Tel: (902) 628-9292 Fax: (902) 892-3403	Nabuurs Seeds RR # 6 Cardigan, PEI C0A 1G0 Tel: (902) 583-2893	SeCan Members (Most Registered Seed Establishments are SeCan members) SeCan Association 200-52, Antures Drive Ottawa, ON K2E 7Z1 Tel: 1-800-764-5487/(613) 225-6891 Fax: (613) 225-6422 http://www.secan.com	Semican Atlantic 353, Rang 10 Plessisville, PQ G6L 2Y2 Tel: (819) 362-8823 Fax: (819) 362-3385
Tério Seeds 250, 3 rd Tier Road LDS of Drummond, NB E3Y 2V2 Tel: (506) 473-2763 Fax: (506) 473-5093			

This information is produced through the joint efforts of the New Brunswick Department of Agriculture, Fisheries and Aquaculture, the Prince Edward Island Department of Agriculture, Fisheries and Aquaculture, the Agriculture and Agri-Food Canada Crops and Livestock Research Centre, Charlottetown, the Nova Scotia Agricultural College and the New Brunswick Soil & Crop Improvement Association.

HERBICIDE SELECTION FOR CEREALS NOT UNDERSEEDED

HERBICIDE EVALUATION	ANNUAL BROAD LEAVES										ANNUAL GRASSES					PERENNIALS					
	Chickweed	Cleavers	Corn Spurry	Hempnettle	Lady's Thumb	Lamb's Quarter	Mayweed	Mustards	Pigweeds	Ragweed	Wild Buckwheat	Barnyard Grass	Foxtail, Green	Foxtail, Yellow	Old Witch Grass	Wild oats	Bindweed, Field	Mint, Field	Quackgrass	Sow thistle	Thistle, Canada

0 = no control
9 = 90 - 100% control under ideal conditions

NOTE: ALWAYS READ PESTICIDE LABEL BEFORE USING IT.

PREPLANT

^{4,5} Glyphosate(GLYFOS, RENEGADE, ROUNDUP, ROUNDUP TRANSORB, TOUCHDOWN, VANTAGE, VANTAGE PLUS)																	7	9	9	8	9	-
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OATS, BARLEY, SPRING & WINTER WHEAT (SPRING APPLICATION ONLY)

2,4-D Amine	0	-	0	0	0	9	-	9	9	9	7	0	0	0	0	0	7	7	0	8	7	0
MCPA	0	-	7	8	0	9	-	9	9	9	0	0	0	0	0	0	7	0	0	8	8	5
¹ 2,4-DB (EMBU TOX 625, COBUTOX, CALIBER 400)	0	-	0	0	0	9	-	7	9	9	7	0	0	0	0	0	8	0	0	9	9	-
¹ MCPB/MCPA (TROPOTOX PLUS)	0	-	0	7	0	9	-	9	9	8	0	0	0	0	0	0	8	0	0	9	9	-
² Thifensulfuron/Tribenuron (REFINE EXTRA)	9	5	8	9	9	9	8	8	9	0	9	0	0	0	0	0	0	-	0	8	8	5
² Thifensulfuron/Tribenuron + 2,4-D Amine (REFINE EXTRA + 2,4-D Amine)	9	-	9	9	9	9	8	9	9	9	9	0	0	0	0	0	0	-	0	8	8	5
² Thifensulfuron/Tribenuron + MCPA (REFINE EXTRA + MCPA)	9	-	9	9	9	9	8	9	9	9	9	0	0	0	0	0	0	-	0	8	8	7
² Thifensulfuron/Tribenuron + Bromoxynil/MCPA (REFINE EXTRA + BUCTRIL-M)	7	-	8	9	9	9	8	9	9	9	9	0	0	0	0	0	6	-	0	6	6	-
Dicamba (BANVEL II)	0	-	9	7	9	9	8	7	9	9	9	0	0	0	0	0	8	-	0	8	8	5
⁶ MCPA/Mecoprop/Dicamba (TARGET)	0	8	9	8	8	9	8	9	9	9	9	0	0	0	0	0	8	-	0	8	8	-
Dicamba/MCPA (DYVEL)	0	5	9	8	9	9	8	9	9	9	9	0	0	0	0	0	8	-	0	8	8	-
Bromoxynil (PARDNER)	0	-	0	0	9	9	8	8	8	8	9	0	0	0	0	0	6	-	0	6	6	-
Bromoxynil/MCPA (1:1)(BUCTRIL-M)	0	-	0	7	9	9	8	9	8	9	9	0	0	0	0	0	6	-	0	6	6	-
^{3,6} Mecoprop (COMPITOX, MECOPROP)	8	8	7	-	-	7	-	-	-	-	-	0	0	0	0	0	-	-	0	-	-	3

BARLEY & WHEAT, SPRING

Diclofop-methyl (HOE-GRASS 284)	0	-	0	0	0	0	0	0	0	0	0	8	8	8	8	9	0	0	0	0	0	0
Dichloroprop/2,4-D (ESTAPROP, TURBOPROP)	0	-	0	6	8	9	-	9	9	9	8	0	0	0	0	0	6	-	0	8	8	0
Difenzoquat (AVENGE 200C)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0
Tralkoxydim (ACHIEVE)	0	-	0	0	0	0	0	0	0	0	0	2	9	9	-	9	0	0	0	0	0	0
⁷ Clopyralid (LONTREL)	-	-	-	-	-	-	8	-	-	-	8	0	0	0	0	0	-	-	0	9	9	9
⁷ Clopyralid/MCPA / 2,4-D (LONTREL + MCPA or 2,4-D)	-	-	-	-	-	9	8	-	-	-	8	0	0	0	0	0	-	-	0	9	8	9
Stampede CM (propanil/MCPA)	7	-	-	-	8	9	-	9	9	-	8	-	8	8	-	2	-	-	-	-	-	-

WINTER WHEAT - FALL APPLICATION

Bromoxynil (PARDNER)	0	-	0	0	9	9	8	8	8	7	9	0	0	0	0	0	6	0	0	6	6	-
Bromoxynil/MCPA (1:1)(BUCTRIL-M)	0	-	0	6	9	9	8	9	8	9	9	0	0	0	0	0	6	0	0	6	6	4

PRE-HARVEST

^{4,5} Glyphosate(GLYFOS, RENEGADE, ROUNDUP, ROUNDUP TRANSORB, TOUCHDOWN, VANTAGE, VANTAGE PLUS)																	7	8	9	9	9	0
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POST-HARVEST

⁴ Glyphosate(ROUNDUP, ROUNDUP TRANSORB, TOUCHDOWN, VANTAGE, VANTAGE PLUS)																	7	7	9	8	8	0
Amitrole (AMITROLE-T, CYTROL)																	-	7	7	7	7	0

- (1) Recommended application on underseeding of alfalfa (2,4-DB) and clover (MCPB/MCPA).
- (2) Caution: REFINE EXTRA is not registered for Belvedere spring wheat or Leger barley. REFINE EXTRA + 2,4-D is not registered for oats.
- (3) Not registered for winter wheat application.
- (4) Check ROUNDUP, TOUCHDOWN, VANTAGE, VANTAGE PLUS labels for recommended surfactants. Annual broad leaved and annual grasses will be controlled only if present at application.
- (5) Do not apply glyphosate containing products pre-harvest on crops grown for seed.
- (6) Cleaver control obtained only at highest recommended rate of application.
- (7) Do not grow crops such as peas, beans (any type), potatoes or vegetable crops until two years after clopyralid application.

NOTE: ALWAYS READ PESTICIDE LABEL BEFORE USING THE PRODUCT.

Information on label can be found on the Pest Management Regulatory Agency (PMRA) web site:
<http://www.eddenet.pmra-arla.gc.ca/4.0/4.01.asp>

CEREAL SEED TREATMENT

COMMON NAME	PRODUCT NAME ¹	Wheat					Barley					Oats		
		Seedling blight	Root rot	Powdery mildew	Septoria	Loose smut	Seedling blight	Root rot	Net blotch	Stripe	Loose smut	Seedling blight	Root Rot	Smut
Carbathiin + Thiram	VITAFLO 280	+	+			+	+	+	+	+	+	+	+	+
Difenoconazole+Metalaxyl-M	DIVIDEND XL RTA	+	+		+	+	+	+				+	+	+
Hexaconazole	PROSEED		+			+					+	NR		
Maneb	IPCO NM	+	+				+	+				+	+	+
Tebuconazole	RAXIL 250 FL	+	+			+	+	+		+	+			+
Triadimenol	BAYTAN 30		+	+		+	+	+	+	+		NR		
Triticonazole	CHARTER	+	+			+	+	+			+			+
Triticonazole + thiram	GEMINI	+	+			+	+	+			+			+

¹ List of product names is not exhaustive. NR: Not registered for this crop (+) Denotes effective control or suppression.

CEREAL FOLIAR FUNGICIDES

COMMON NAME	PRODUCT NAME ¹	FORMULATION ²	Winter & Spring Wheat			Barley			Oat		PRE - HARVEST INTERVAL (days)
			Powdery Mildew ³	Septoria ⁴	Rusts	Net Blotch	Spot Blotch	Scald	Septoria	Rusts	
Chlorothalonil	BRAVO 500	SU		+				NR ³		NR ³	30
Mancozeb	DITHANE DG	SG	-	+	+			NR ³		NR ³	40
Propiconazole	TILT	EC	+	+	+	+	+	+	+	+	45
Propiconazole + trifloxystrobin	STRATEGO	EC	+	+	+			NR ³		NR ³	45
Pyraclostrobin	HEADLINE	EC	+	+	+	+	+	+		NR ³	40
Trifloxystrobin	FLINT	WG	+	+	+			NR ³		NR ³	45

¹ List of product names is not exhaustive

² EC-emulsifiable concentrate; SG-soluble granules; SU-suspension ; WG-wettable granules

³NR – Not registered for this crop

(+) denotes effective control

(-) non-effective control

INSECT PEST CONTROL RECOMMENDATIONS FOR CEREALS

PEST	ACTIVE	INSECTICIDE GROUP	TRADE NAME (list is not exhaustive)	PRE -HARVEST INTERVAL (days) (Individual labels may vary)	CROP			
					Wheat	Barley	Oats	Rye
Grain aphids	Malathion	organophosphate (group 1B)	MALATHION, FYFANON	7	+	+	+	+
Cereal leaf beetle	Carbaryl	carbamate (group 1A)	SEVIN	(14: wheat, oats, rye) (28: barley)	+	+	+	+
	Malathion	organophosphate (group 1B)	MALATHION, FYFANON	7	+	+	+	+
Armyworm	Carbaryl	carbamate (group 1A)	SEVIN	(14: wheat, oats, rye) (28: barley)	+	+	+	+
	Chlorpyrifos	organophosphate (group 1B)	LORSBAN, PYRINEX	60	+	+	+	NR
	Malathion	organophosphate (group 1B)	MALATHION, FYFANON	7	+	+	+	+
	Methomyl	carbamate (group 1A)	LANNATE	20	+	+	+	NR
	Methoxychlor	organochlorine (group 2A)	METHOXYCHLOR	7	+	+	+	+
	Trichlorfon	organophosphate (group 1B)	DYLOX	21	+	+	+	NR

Notes: 1) (+) denotes effective control or suppression 2) To delay insecticide resistance: where possible, rotate the use of an insecticide with insecticides in different groups that control the same pests in a field. 3) See label for application rate. 4) Malathion works best at temperatures above 20 degrees Celsius. 5) Follow all instructions according to the label. Label instructions take precedence over this document. 6) NR = not registered.