

2005 CEREAL GUIDE TO CULTIVAR & HERBICIDES SELECTION



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Data derived from trials conducted by the Atlantic Feed Crops Registration Committee.

Agriculture,
Fisheries and
Aquaculture

Agriculture,
Pêches et
Aquaculture

2-ROW BARLEY – 2005 RECOMMENDATION – 3 year average from 3 test stations (2002 -2004)

Cultivars	Maritime Multi Year		Station Yield						Maturity (days after planting)	Lodging (0-9) ¹	Test Weight (kg/hL)
	Relative yield (%)	Yield (t/ha)	Hartland NB		Nappan/ Canning NS		Harrington PEI				
			Yield (t/ha)	Rank	Yield (t/ha)	Rank	Yield (t/ha)	Rank			
AC ALBERTE ^H	88	3.83	3.67	4	4.38	4	2.82	4	91	2	74
AC QUEENS	107	4.66	3.97	3	5.74	1	3.53	2	93	3	67
AC STERLING	100	4.39	4.10	2	5.56	3	3.49	3	94	2	68
ISLAND	105	4.60	4.17	1	5.60	2	3.60	1	92	2	68
Average	100	4.37	3.98		5.32		3.36				

Cultivars	Distributor	Height (cm)	1000 Kernels Weight (g)	Thresh- ability (0-9) ²	Disease Resistance (0-9) ³			
					Net/Spot Blotch	Scald	Powdery Mildew	Fusarium Head Blight
AC ALBERTE ^H	Semican	75	44	2	4	3	0	3
AC QUEENS	Meadowbrook	83	49	2	3	3	4	3
AC STERLING	SeCan	78	46	2	3	3	0	3
ISLAND	Terio Seeds	81	48	2	3	2	0	3

6-ROW BARLEY – 2005 RECOMMENDATION – 3 year average from 3 test stations (2002 -2004)

Cultivars	Maritime Multi Year		Station Yield						Maturity (days after planting)	Lodging (0-9) ¹	Test Weight (kg/hl)
	Relative yield (%)	Yield (t/ha)	Hartland NB		Nappan/ Canning NS		Harrington PEI				
			Yield (t/ha)	Rank	Yield (t/ha)	Rank	Yield (t/ha)	Rank			
AC ALMA	99	4.79	4.40	4	5.03	2	3.69	4	94	2	64
AC LEGEND	102	4.96	4.65	2	5.31	1	3.92	1	93	3	64
AC MAPLE	102	4.94	4.44	3	4.69	5	3.87	2	94	2	64
AC WESTECH	101	4.91	4.66	1	5.01	3	3.86	3	94	3	65
CHAPAIS	96	4.64	4.14	5	4.75	4	3.47	5	92	3	63
Average	100	4.85	4.46		4.96		3.76				

Cultivars	Distributor	Height (cm)	1000 Kernels Weight (g)	Thresh- ability (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	3
AC LEGEND	SeCan	74	45	5	3	3	3	4
AC MAPLE	Semican	70	40	5	3	3	3	4
AC WESTECH	Grand Falls Milling	87	41	1	2	4	2	4
CHAPAIS	SeCan	78	45	2	3	4	3	4

1. 0 = no lodging; 9= fully lodged

2. 0 = threshes well ; 9= threshes poorly

3. 0 = resistant; 9= highly susceptible

H= Hulless: Hull is removed during threshing

OAT – 2005 RECOMMENDATION – 3 year average from 3 test stations (2002-2004)

Cultivars	Maritime Multi Yield		Station Yield						Maturity (days after planting)	Lodging (0-9) ¹	Test Weight (kg/hl)
	Relative yield (%)	Yield (t/ha)	Hartland NB		Truro NS		Harrington PEI				
			Yield (t/ha)	Rank	Yield (t/ha)	Rank	Yield (t/ha)	Rank			
COVERED OAT											
AC RIGODON	98	4.89	3.89	1	5.89	1	4.62	3	104	4	48
CAPITAL	100	4.98	3.81	3	5.62	3	4.70	2	103	5	46
NOVA	98	4.89	3.63	4	5.60	4	4.57	4	102	5	49
TRIPLE CROWN	103	5.15	3.82	2	5.66	2	4.74	1	104	4	46
Average	100	4.98	3.79		5.69		4.66				
HULLESS OAT											
AC BATON	99	3.24	2.37	2	3.39	2	2.87	1	105	4	56
AC ERNIE	101	3.33	2.50	1	3.86	1	2.76	2	105	3	59
Average	100	3.29	2.44		3.63		2.82				
Cultivars	Distributor	Height (cm)	1000 Kernels 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	4			
NOVA	SeCan	115	32	24	White		2	4			
TRIPLE CROWN	Coop Atlantic	114	32	24	White		2	4			
HULLESS OAT											
AC BATON	SeCan	113	31	3			3	5			
AC ERNIE	C & M Seeds	112	27	2			3	4			

SPRING WHEAT (Hard Red) – 2005 RECOMMENDATION – 3 year average from 4 test stations (2002 -2003)

Cultivars	Maritime Multi Year		Station Yield								Maturity (days after planting)	Lodging (0-9) ¹
	Relative yield (%)	Yield (t/ha)	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	104	4.65	4.54	1	3.04	2	5.01	4	4.13	1	107	2
AC NORBORO ^{OC}	99	4.42	4.35	3	2.73	4	5.28	2	3.02	3	105	2
AC WILMOT ^{OC}	97	4.36	4.28	5	2.84	3	5.18	3	2.99	4	105	1
BELVEDERE ^{OC}	96	4.30	4.29	4	2.61	5	4.73	5	2.71	5	106	2
HOFFMAN ^P	104	4.67	4.40	2	3.22	1	5.31	1	4.07	2	108	2
Average	100	4.48	4.37		2.89		5.10		3.38			
MILLING												
AC HELENA	101	4.62	4.39	2	3.00	2	5.11	2	4.17	2	106	2
AC WALTON	92	4.19	4.10	3	2.66	3	4.68	3	3.29	3	107	1
BROOKFIELD ^P	107	4.86	4.50	1	3.47	1	5.52	1	4.21	1	107	2
Average	100	4.56	4.33		3.04		5.10		3.89			
Cultivars	Distributor	Milling quality ³	Height (cm)	Test Weight (kg/hL)	1000 Kernel Weight (g)	Disease resistance (0-9) ²						
						Powdery mildew	Fusarium Head Blight	Spetoria				
FEED												
AC HARTLAND	Terio Seeds	Feed	100	75	34	0	6	3				
AC NORBORO ^{OC}	Meadowbrook Nabuurs	Feed	96	75	34	3	6	4				
AC WILMOT ^{OC}	CSGA	Feed	95	77	36	2	6	3				
BELVEDERE ^{OC}	CSGA	Feed	98	75	34	2	6	3				
HOFFMAN ^P	Semican	Feed	103	77	40	0	3	3				
MILLING												
AC HELENA	Meadowbrook	Strong Blend	98	77	37	1	6	4				
AC WALTON	SeCan	Strong Blend	99	74	35	1	3	4				
BROOKFIELD ^P	Grand Falls Milling	Strong Blend	102	78	35	1	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 season.

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.

WINTER WHEAT – 2005 RECOMMENDATION – 3 year average from 4 test stations (2002 -2004)

Cultivars	Maritime Multi Year		Station Yield								Maturity (days from April 30 th)	Lodging (0-9) ¹
	Relative yield (%)	Yield (t/ha)	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 (Hard Red)												
AC GRANDVIEW	101	5.52	4.55	1	5.25	1	5.54	3	4.00	2	94	2
AC WINSLOE	98	5.32	4.04	3	4.87	3	5.92	1	3.30	3	92	2
MILLING (Hard Red)												
AC SAMPSON	101	5.49	4.28	2	5.00	2	5.79	2	4.03	1	94	2
Average	100	5.44	4.29		5.04		5.75		3.78			

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	Spetoria
FEED (Hard Red)									
AC GRANDVIEW	Nabuurs	Feed	90	109	78	34	1	5	3
AC WINSLOE	Nabuurs	Feed	89	90	76	37	1	5	4
MILLING (Hard Red)									
AC SAMPSON	Meadowbrook	Strong Blend	91	97	76	39	2	4	4

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

- 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 NOG 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 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 503 Broadway Blvd. West (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	Minas Seeds Box 130 Canning, NS B0P 1H0 Tel: (902) 582-3345	Nabuurs Seeds RR # 6 Cardigan, PEI C0A 1G0 Tel: (902) 583-2893	SeCan Members (Most Registered Seed Establishment 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 and Prince Edward Island Departments of Agriculture, the Agriculture and Agri-Food Canada Crops and Livestock Research Centre, Charlottetown, the Nova Scotia Agricultural College and industry representatives.

RBICIDE SELECTION IN 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	Vetches
0 = no control 9 = 90 - 100% control under ideal conditions NOTE: ALWAYS READ PESTICID LABEL BEFORE USING IT.																						
PREPLANT																						
⁴ Glyphosate(ROUNDUP, ROUNDUP TRANSORB, TOUCHDOWN, VANTAGE, VANTAGE PLUS)																	7	8	9	9	9	0
PRE-HARVEST																						
^{4,5} Glyphosate(ROUNDUP, ROUNDUP TRANSORB, TOUCHDOWN, VANTAGE, VANTAGE PLUS)																	7	9	9	8	9	-
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
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 (EMBUTOX 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	0	9	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

(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 broad leaved and annual grasses will be controlled only if present at application.
 (5) Do not apply glyphosate containing products preharvest 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.

SPECIAL NOTE: ALWAYS READ PRESTICIDE LABEL BEFORE USING THE PRODUCT.

CEREAL FOLIAR FUNGICIDES			Winter wheat			Spring wheat		Barley			Oat		
COMMON NAME	PRODUCT NAME*	FORMULATION	Powdery Mildew ²	Septoria ³	Rusts	Powdery Mildew ²	Septoria ³	Net Blotch	Spot Blotch	Scald	Septoria	Rusts	Pre-Harvest Interval (days)
Pyraclostrobin	Headline	WP	+	+	-	+	+	+	+	+	-	-	40
Mancozeb	Dithane M-45	WP	-	+	-	-		NR ⁴			NR ⁴		40
Propiconazole	Tilt	Su	+	+	+	+	+	+	+	+	+	+	45
Chlorothalonil	Bravo	F		+			+						30

¹WP – wettable powder; Su-solution; F – flowable liquid

²Tilt – 2 weeks control

³Tilt – 4 weeks control, Dithane M-45 – 2 weeks control, Bravo – 10 – 14 day control.

⁴NR – Not registered for this crop.

(+) denotes effective control

(-) non-effective control

CEREAL INSECT CONTROL*

APHIDS*	LEAF BEETLES*	ARMYWORMS*
DIMETHOATE (CYGON OR ROGOR) MALATHION Temperatures of about 21° result in best aphid control.	MALATHION at least 7 days before harvest GUTHION at least 30 days before harvest	CARBARYL (SEVIN XLR PLUS) CHLORPYRIFOS (LORSBAN & PYRINEX) MALATHION METHOMYL (LANNATE) METHOXYCHLOR TRICHLORFON (DYLOX)

FOR ADDITIONAL INFORMATION ON INSECTS, SEE PUBLICATION 116 « DISEASES AND INSECT PESTS OF CEREALS IN THE ATLANTIC PROVINCES”.

* Check labels for application methods & pre-harvest intervals.

CEREAL SEED TREATMENT

COMMON NAME	PRODUCT NAME*	Wheat					Barley					Oats			All Cereals
		Loose smut	Seedling blight	Root rot	Powdery mildew	Septoria	Loose smut	Seedling blight	Scald	Root Rot	Net Blotch	Stripe	Covered Smut	Seedling Blight	
Maneb	IPCO NM		+	+				+	+			+	+	+	
Carbathin + Thirm	Vitaflow 280	+	+	+			+	+		+		+	+	+	
Triadimenol	Baytan 30	+		+	+		+		+	+	+				
Difenoconazole+Metalaxyl-m	Dividend XL	+		+		+									
Tebuconazole	Raxil 250 FL	+	+	+			+	+		+	+				
Maneb+Lindane	IPCO NM Dual Purpose		+	+				+				+	+	+	+
Carbathin + Thiram + Lindane	Vitavax Dual Purpose	+	+	+			+	+		+	+	+	+	+	+

* List of product names is not exhaustive. (+) Denotes effective control or suppression.