

2007 CEREAL GUIDE TO CULTIVAR AND PESTICIDE SELECTION

www.gnb.ca

2-ROW BARLEY – 2007 RECOMMENDATION – 3 YEAR AVERAGE (2004-2006)

| Cultivar | Relative yield (%) | Yield (t/ha) | Station Yield | | | | | | | | 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 | 101 | 3.93 | 3.53 | 3 | 3.77 | 1 | 4.48 | 3 | 3.97 | 1 | 102 | 3 | 66 |
| AC STERLING | 99 | 3.86 | 3.62 | 2 | 3.47 | 2 | 4.63 | 1 | 3.72 | 3 | 104 | 2 | 68 |
| ISLAND | 101 | 3.95 | 3.73 | 1 | 3.33 | 3 | 4.70 | 2 | 3.85 | 2 | 103 | 2 | 67 |
| Average | 100 | 3.91 | 3.63 | | 3.52 | | 4.60 | | 3.85 | | | | |
| HULLESS BARLEY | | | | | | | | | | | | | |
| AC ALBERTE | | 3.02 | 2.91 | | 2.53 | | 3.55 | | 2.92 | | 106 | 2 | 75 |

| 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 | 89 | 47 | 1 | 4 | 3 | 1 | 2 |
| AC STERLING | SeCan | 85 | 44 | 1 | 3 | 3 | 1 | 2 |
| ISLAND | Terio Seeds | 89 | 45 | 1 | 3 | 2 | 0 | 2 |
| HULLESS BARLEY | | | | | | | | |
| AC ALBERTE | Semican | 80 | 41 | 1 | 4 | 4 | 0 | 2 |

6-ROW BARLEY – 2007 RECOMMENDATION – 3 YEAR AVERAGE (2004-2006)

| Cultivar | Relative yield (%) | Yield (t/ha) | Station Yield | | | | | | | | 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 KLINCK ^P | 104 | 4.38 | 4.13 | 2 | 2.83 | 7 | 5.45 | 2 | 4.40 | 2 | 104 | 1 | 61 |
| AC ALMA | 99 | 4.16 | 3.86 | 4 | 3.43 | 2 | 5.25 | 4 | 4.01 | 5 | 97 | 1 | 60 |
| AC LEGEND | 108 | 4.54 | 4.42 | 1 | 3.77 | 1 | 5.30 | 3 | 4.42 | 1 | 99 | 2 | 62 |
| AC MAPLE | 100 | 4.20 | 3.74 | 6 | 2.93 | 6 | 5.23 | 5 | 4.33 | 3 | 100 | 1 | 61 |
| AC WESTECH | 98 | 4.13 | 4.06 | 3 | 3.40 | 3 | 4.95 | 6 | 3.93 | 6 | 99 | 1 | 63 |
| CHAMBLY ^P | 100 | 4.22 | 3.82 | 5 | 3.20 | 4 | 5.53 | 1 | 4.10 | 4 | 102 | 1 | 63 |
| CHAPAIS ^{OC} | 91 | 3.82 | 3.43 | 7 | 3.13 | 5 | 4.70 | 7 | 3.81 | 7 | 99 | 1 | 60 |
| Average | 100 | 4.21 | 3.92 | | 3.24 | | 5.20 | | 4.14 | | | | |
| Disease Resistance (0-9)³ | | | | | | | | | | | | | |
| 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 KLINCK ^P | SeCan | 94 | 46 | 4 | 3 | 3 | n/a | 4 | | | | | |
| AC ALMA | Grand Falls Milling | 89 | 40 | 3 | 2 | 3 | 4 | 4 | | | | | |
| AC LEGEND | SeCan | 77 | 43 | 5 | 2 | 1 | 3 | 3 | | | | | |
| AC MAPLE | Co-Op Atlantic | 72 | 38 | 5 | 3 | 1 | 2 | 4 | | | | | |
| AC WESTECH | Grand Falls Milling | 89 | 39 | 2 | 2 | 3 | 2 | 3 | | | | | |
| CHAMBLY ^P | Grand Falls Milling | 86 | 45 | 3 | 2 | 2 | n/a | 3 | | | | | |
| CHAPAIS ^{OC} | SeCan | 81 | 41 | 2 | 3 | 3 | 3 | 4 | | | | | |

- 0 = no lodging; 9= fully lodged
 - 0 = threshes well ; 9= threshes poorly (from 1 site-year-2006)
 - 0 = resistant; 9= highly susceptible (based on multiple tests & years)
- n/a : not available

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.

OAT – 2007 RECOMMENDATION – 3 YEAR AVERAGE (2004-2006)

| Cultivar | Relative yield (%) | Yield (t/ha) | Station Yield | | | | | | 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 | 99 | 4.00 | 3.50 | 3 | 4.38 | 2 | 4.10 | 4 | 111 | 4 | 45 |
| CAPITAL | 100 | 4.05 | 3.61 | 1 | 4.29 | 3 | 4.20 | 3 | 111 | 5 | 46 |
| DOMINGO ^P | 101 | 4.08 | 3.28 | 4 | 4.59 | 1 | 4.31 | 2 | 112 | 5 | 45 |
| NOVA | 99 | 3.99 | 3.59 | 2 | 4.59 | 1 | 3.85 | 5 | 111 | 5 | 49 |
| TRIPLE CROWN | 101 | 4.08 | 3.61 | 1 | 4.12 | 4 | 4.42 | 1 | 111 | 5 | 44 |
| Average | 100 | 4.04 | 3.52 | | 4.39 | | 4.18 | | | | |
| HULLESS OAT | | | | | | | | | | | |
| AC BATON | 95 | 2.40 | 2.31 | 1 | 2.53 | 2 | 2.37 | 2 | 111 | 5 | 55 |
| AC ERNIE | 104 | 2.63 | 2.30 | 2 | 2.70 | 1 | 2.83 | 1 | 111 | 4 | 57 |
| Average | 100 | 2.52 | 2.31 | | 2.62 | | 2.60 | | | | |

| Cultivar | Distributor | Height (cm) | 1000 Kernel Weight (g) | Hull (%) | Seed Color | Disease Resistance (0-9) ² | |
|----------------------|----------------|-------------|------------------------|----------|------------|---------------------------------------|----------------------|
| | | | | | | Septoria | Fusarium Head Blight |
| COVERED OAT | | | | | | | |
| AC RIGODON | SeCan | 111 | 33 | 26 | White | 5 | 2 |
| CAPITAL | SeCan | 106 | 30 | 24 | White | 6 | 2 |
| DOMINGO ^P | Co-Op Atlantic | 115 | 32 | 25 | White | 5 | 2 |
| NOVA | SeCan | 111 | 31 | 25 | White | 6 | 2 |
| TRIPLE CROWN | Co-Op Atlantic | 110 | 31 | 27 | White | 5 | 2 |
| HULLESS OAT | | | | | | | |
| AC BATON | SeCan | 107 | 31 | 2 | White | 7 | 2 |
| AC ERNIE | C & M Seeds | 107 | 27 | 2 | White | 5 | 2 |

SPRING WHEAT (Hard Red) – 2007 RECOMMENDATION – 3 YEAR AVERAGE (2004-2006)

| Cultivar | Relative yield (%) | Yield (t/ha) | Station Yield | | | | | | | | 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 | 105 | 4.01 | 3.57 | 1 | 4.03 | 1 | 4.33 | 3 | 4.16 | 1 | 109 | 1 |
| BELVEDERE ^{OC} | 86 | 3.26 | 3.41 | 4 | 2.77 | 4 | 3.74 | 4 | 2.98 | 3 | 108 | 1 |
| HOFFMAN | 104 | 3.96 | 3.42 | 3 | 3.63 | 2 | 4.44 | 2 | 4.14 | 2 | 110 | 1 |
| NASS | 105 | 4.00 | 3.46 | 2 | 3.50 | 3 | 4.61 | 1 | 4.14 | 2 | 109 | 1 |
| Average | 100 | 3.81 | 3.47 | | 3.48 | | 4.28 | | 3.86 | | | |
| MILLING | | | | | | | | | | | | |
| AC HELENA | 105 | 3.94 | 3.79 | 1 | 3.57 | 2 | 4.13 | 1 | 4.08 | 1 | 108 | 1 |
| AC WALTON ^{OC} | 93 | 3.48 | 3.33 | 3 | 3.20 | 3 | 3.83 | 3 | 3.46 | 3 | 109 | 1 |
| BROOKFIELD | 102 | 3.81 | 3.46 | 2 | 3.93 | 1 | 3.89 | 2 | 4.07 | 2 | 110 | 1 |
| Average | 100 | 3.74 | 3.53 | | 3.57 | | 3.95 | | 3.87 | | | |

| Cultivar | Distributor | Milling quality ³ | Height (cm) | Test Weight (kg/hL) | 1000 Kernel Weight (g) | Disease resistance (0-9) ² | | |
|-------------------------|---------------------|------------------------------|-------------|---------------------|------------------------|---------------------------------------|----------------|----------------------|
| | | | | | | Septoria | Powdery mildew | Fusarium Head Blight |
| FEED | | | | | | | | |
| AC HARTLAND | Terio Seed | Feed | 107 | 74 | 33 | 4 | 0 | 6 |
| BELVEDERE ^{OC} | CSGA | Feed | 105 | 74 | 33 | 4 | 2 | 5 |
| HOFFMAN | Co-Op Atlantic | Feed | 109 | 76 | 40 | 4 | 0 | 3 |
| NASS | SeCan | Feed | 107 | 76 | 34 | 4 | 0 | 3 |
| MILLING | | | | | | | | |
| AC HELENA | Meadowbrook | Strong Blend | 104 | 76 | 37 | 4 | 1 | 4 |
| AC WALTON ^{OC} | SeCan | Strong Blend | 105 | 74 | 35 | 4 | 0 | 5 |
| BROOKFIELD | Grand Falls Milling | Strong Blend | 108 | 77 | 33 | 3 | 0 | 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%.

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 – 2007 RECOMMENDATION – 3 YEAR AVERAGE (2004-2006)

| Cultivar | Relative yield (%) | Yield (t/ha) | Station Yield | | | | | | | | Winter survival (%) | Maturity (days from April 30 th) |
|---------------------------|--------------------|------------------------------|----------------------------|-------------|---------------------|------------------------|---------------------------------------|----------------|----------------------|------|---------------------|--|
| | | | 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 ⁴ | 98 | 4.72 | 3.53 | 4 | 4.42 | 2 | 5.68 | 4 | 4.23 | 1 | 88 | 65 |
| AC WINSLOE ⁴ | 94 | 4.54 | 3.69 | 3 | 3.96 | 4 | 6.34 | 3 | 3.42 | 4 | 90 | 63 |
| FREEDOM ^{P,5} | 98 | 4.70 | 3.80 | 2 | 3.99 | 3 | 6.30 | 2 | 3.87 | 3 | 87 | 65 |
| P25R47 ^{P,5} | 110 | 5.27 | 4.07 | 1 | 4.87 | 1 | 7.09 | 1 | 4.22 | 2 | 85 | 63 |
| Average | 100 | 4.81 | 3.77 | | 4.31 | | 6.35 | | 3.94 | | | |
| MILLING | | | | | | | | | | | | |
| AC SAMPSON ⁴ | | 4.77 | 4.25 | | 4.25 | | 6.17 | | 3.97 | | 90 | 65 |
| Cultivar | Distributor | Milling quality ³ | Lodging (0-9) ¹ | Height (cm) | Test Weight (kg/hL) | 1000 Kernel Weight (g) | Disease resistance (0-9) ² | | | | | |
| | | | | | | | Septoria | Powdery mildew | Fusarium Head Blight | | | |
| FEED | | | | | | | | | | | | |
| AC GRANDVIEW ⁴ | Nabuurs | Feed | 1 | 109 | 77 | 33 | 3 | 2 | 4 | | | |
| AC WINSLOE ⁴ | Nabuurs | Feed | 1 | 91 | 76 | 36 | 4 | 1 | 4 | | | |
| FREEDOM ^{P,5} | Minas Seed | Feed | 2 | 97 | 74 | 32 | 4 | 1 | 3 | | | |
| P25R47 ^{P,5} | Pioneer | Feed | 1 | 87 | 75 | 35 | 4 | 3 | 4 | | | |
| MILLING | | | | | | | | | | | | |
| AC SAMPSON ⁴ | Meadowbrook | Strong Blend | 2 | 96 | 74 | 36 | 4 | 3 | 5 | | | |

- 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%.

- Hard Red
 - Soft Red
- P= Provisional:** New variety that shows strong yield/agronomic traits.

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-oponline.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 | Minas Seeds Box 130 Canning, NS B0P 1H0 Tel: (902) 582-3346 | 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 and Aquaculture, the Prince Edward Island Department of Agriculture, Fisheries and Aquaculture, the Agriculture and Agri-Food Canada Crops and Livestock Research Centre (Charlottetown, PEI), the Nova Scotia Crop Development Institute and the New Brunswick Soil & Crop Improvement Association.

HERBICIDE SELECTION FOR CEREALS NOT UNDERSEEDED

| Crop Tolerance | Herbicide Evaluation | CROP TOLERANCE | ANNUAL BROADLEAF | | | | | | | | | | ANNUAL GRASS | | | | PERENNIAL | | | | |
|----------------|----------------------|----------------|------------------|----------|-------------|------------|--------------|-----------------|---------|----------|----------|---------|----------------|----------------|----------------|-----------------|-------------|-----------|----------------|------------|-------------|
| | | | Chickweed | Cleavers | Corn Spurry | Hempnettle | Lady's Thumb | Lamb's Quarters | Mayweed | Mustards | Pigweeds | Ragweed | Wild Buckwheat | Barnyard Grass | Foxtail, Green | Foxtail, Yellow | Witch Grass | Wild Oats | Field Bindweed | Field Mint | Quack Grass |

Crop Tolerance
 E = Excellent
 G = Good
 F = Fair
 P = Poor
 N = Non-crop use

Herbicide Evaluation
 0 = No control
 9 = 90-100% control under ideal conditions
 - = Insufficient data

ALWAYS READ HERBICIDE LABEL BEFORE USE

PREPLANT

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⁴ Glyphosate - ROUNDUP, TOUCHDOWN, GLYPHOS, VANTAGE, CREDIT, FACTOR, RENEGADE | N | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 9 | 8 | 8 | 9 | 3 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

OATS, BARLEY, SPRING AND WINTER WHEAT (SPRING APPLICATION ONLY)

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MCPA | F | 0 | - | 7 | 8 | 2 | 9 | - | 9 | 9 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 8 | 5 |
| ¹ 2,4-DB - EMBUTOX, COBUTOX, CALIBER 400 | G | 2 | - | 2 | 2 | 4 | 9 | - | 7 | 9 | 8 | 6 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 5 | 5 | 2 |
| ¹ MCPB/MCPA - TROPOTOX PLUS, CLOVITOX PLUS, TOPSIDE | G | 2 | - | 2 | 8 | 2 | 9 | - | 9 | 9 | 8 | 7 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 9 | 9 | 5 |
| ² Thifensulfuron/Tribenuron - REFINE EXTRA | E | 9 | 5 | 9 | 9 | 9 | 9 | 8 | 8 | 9 | 2 | 9 | 0 | 0 | 0 | 0 | 0 | 2 | - | 0 | 8 | 8 | 7 |
| Dicamba - BANVEL II, ORACLE | F | 8 | - | 9 | 7 | 9 | 9 | 8 | 7 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 8 | - | 0 | 9 | 8 | 5 |
| ⁶ MCPA/Mecoprop/Dicamba - TARGET, SWORD, TRACKER | P | 2 | 8 | 9 | 8 | 8 | 9 | 8 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 8 | - | 0 | 8 | 8 | - |
| Dicamba/MCPA - DYVEL | F | 0 | 5 | 9 | 8 | 9 | 9 | 8 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 8 | - | 0 | 8 | 8 | - |
| Bromoxynil - PARDNER, KORIL, BROMITROL | E | 2 | - | 2 | 2 | 8 | 9 | 8 | 7 | 7 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 5 | - | 0 | 6 | 5 | - |
| Bromoxynil/MCPA - BUCTRIL M, MEXTROL, BADGE, LOGIC M | E | 2 | - | 2 | 7 | 9 | 9 | 8 | 9 | 8 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 7 | - | 0 | 7 | 7 | - |
| ^{3,6} Mecoprop - COMPITOX, MECOPROP | G | 9 | 8 | 9 | 2 | 2 | 9 | - | 9 | 9 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | - | - | 0 | - | 7 | 5 |

BARLEY, SPRING AND WINTER WHEAT (SPRING APPLICATION ONLY)

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tralkoxydim - ACHIEVE | G | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 9 | 9 | - | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2,4-D Amine | F | 0 | - | 0 | 0 | 0 | 9 | - | 9 | 9 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 0 | 5 | 7 | 0 |
| Dichloroprop/2,4-D - ESTAPROP, TURBOPROP, DICLOROPROP-D | G | 2 | - | 2 | 7 | 8 | 9 | - | 9 | 9 | 9 | 8 | 0 | 0 | 0 | 0 | 0 | 7 | - | 0 | 8 | 8 | 0 |
| ² Thifensulfuron/Tribenuron + 2,4-D Amine - REFINE EXTRA + 2,4-D Amine | F | 9 | 5 | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 7 | - | 0 | 8 | 8 | 8 |
| ² Thifensulfuron/Tribenuron + MCPA - REFINE EXTRA + MCPA | F | 9 | 6 | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 7 | - | 0 | 8 | 8 | 8 |
| ² Thifensulfuron/Tribenuron + Bromoxynil/MCPA - REFINE EXTRA + BUCTRIL M | E | 9 | 7 | 9 | 9 | 9 | 9 | 8 | 9 | 8 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 7 | - | 0 | 7 | 7 | 8 |

BARLEY AND SPRING WHEAT

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⁸ Difenzoquat - AVENGE 200C | F | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| ⁷ Clopyralid - LONTREL | F | - | - | - | - | - | - | 8 | - | - | - | 8 | 0 | 0 | 0 | 0 | 0 | - | - | 0 | 9 | 9 | 9 |
| ⁷ Clopyralid + MCPA or 2,4-D - LONTREL + MCPA or 2,4-D | F | 2 | - | 2 | 2 | 7 | 9 | 8 | 9 | 9 | 9 | 8 | 0 | 0 | 0 | 0 | 0 | 7 | - | 0 | 9 | 9 | 9 |

WINTER WHEAT - FALL APPLICATION

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromoxynil - PARDNER, KORIL, BROMITROL | E | 0 | - | 0 | 0 | 9 | 9 | 8 | 8 | 8 | 7 | 9 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 6 | - |
| Bromoxynil/MCPA - BUCTRIL M, MEXTROL, BADGE, LOGIC M | E | 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 - ROUNDUP, TOUCHDOWN, GLYPHOS, VANTAGE, CREDIT, FACTOR, RENEGADE | N | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 8 | 9 | 9 | 9 | 3 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

POST-HARVEST

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⁴ Glyphosate - ROUNDUP, TOUCHDOWN, GLYPHOS, VANTAGE, CREDIT, FACTOR, RENEGADE | N | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 7 | 9 | 9 | 8 | 3 |
| Amitrole - AMITROLE-T, CYTROL | N | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 7 | 7 | 7 | 7 | 0 |

Ratings are a subjective guide based on best performance data from the Maritime region. Ratings will vary with environment, crop stage and weed maturity.

- (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.
- (3) Not registered for winter wheat application.
- (4) Numerous formulations available. Check product labels for recommended surfactants and appropriate use. 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) Cleavers 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.
- (8) Check product label for appropriate crop varieties.

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

NOTE: ALWAYS READ PESTICIDE LABEL BEFORE USING THE PRODUCT.

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

SEED TREATMENTS - Registered for on-farm seed treatment¹

| COMMON NAME | PRODUCT NAME ¹ | Wheat | | | | | | Barley | | | | | | Oats | | | |
|------------------------------|---------------------------|-----------------|----------|----------------|--------------------|------------|-------------|-----------------|----------|------------|-------------|------|-------------|-----------------|----------|------|-------------|
| | | Seedling blight | Root rot | Powdery mildew | Septoria (on seed) | Loose smut | Damping off | Seedling blight | Root rot | Net blotch | Leaf Stripe | Smut | Damping off | Seedling blight | Root Rot | Smut | Damping off |
| carbathiin + thiram | VITAFLO 280 | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + |
| difenoconazole + metalaxyl-M | DIVIDEND XL RTA | + | + | | + | + | + | + | + | | | + | + | + | + | + | + |
| tebuconazole + thiram | RAXIL T | + | + | | + | + | + | + | + | | | + | + | + | | + | + |
| triadimenol | BAYTAN 30 | | + | + | | + | | | + | + | + | + | | NR | | | |
| triticonazole | CHARTER | + | + | | | + | | + | + | | | + | | | | + | |
| triticonazole + thiram | GEMINI | + | + | | | + | + | + | + | | | + | + | | | + | |

¹ List of products is not exhaustive. Additional seed treatments are registered for use in commercial seed treatment facilities. These seed treatments are available to producers by purchasing pre-treated seed. NR = Not Registered for use on this crop (+) Denotes effective control or suppression

CEREAL FOLIAR FUNGICIDES

| COMMON NAME | PRODUCT NAME ¹ | FORMULATION | Winter & Spring Wheat | | | | Barley | | | Oat | | PRE -HARVEST INTERVAL (days) |
|---------------------------------|---------------------------|-------------|-----------------------|----------------------|----------|-------|------------|-------------|-------|----------|-------|------------------------------|
| | | | Powdery Mildew | Fusarium Head Blight | Septoria | Rusts | Net Blotch | Spot Blotch | Scald | Septoria | Rusts | |
| Mancozeb | DITHANE DG | SG | | | + | + | | | NR | | NR | 40 |
| Propiconazole | BUMPER/TILT/PIVOT | EC | + | | + | + | + | + | + | + | + | 45 |
| Propiconazole + trifloxystrobin | STRATEGO | EC | + | | + | + | + | + | + | + | + | 45 |
| Pyraclostrobin | HEADLINE | EC | + | | + | + | + | + | + | + | NR | 40 |
| Tebuconazole | FOLICUR 432 | F | + | + | + | + | | | NR | | NR | 36 |
| Trifloxystrobin | FLINT | WG | + | | + | + | | | NR | | NR | 45 |

¹ List of products is not exhaustive NR - Not Registered for use on this crop (+) Denotes effective control or suppression
SG - soluble granules; EC - emulsifiable concentrate; F - Flowable; WG - wettable granules

INSECT PEST CONTROL RECOMMENDATIONS FOR CEREALS

| PEST | ACTIVE | INSECTICIDE GROUP | TRADE NAME (list may not be exhaustive) | PRE - HARVEST INTERVAL (days) (Individual labels may vary) | CROP (use on crop with "+") (NR = not registered for this crop) | | | |
|---------------------------|--------------|-------------------------------|--|--|---|--------|------|-----|
| | | | | | Wheat | Barley | Oats | Rye |
| Grain aphids | malathion | organophosphate (group 1B) | FYFANON 50 EC MALATHION 50 EC MALATHION 85 E MALATHION 500 E | 7 | + | + | + | + |
| Cereal leaf beetle | malathion | organophosphate (group 1B) | FYFANON 50 EC MALATHION 50 EC MALATHION 85 E MALATHION 500 E | 7 | + | + | + | + |
| | carbaryl | carbamate (group 1A) | SEVIN 50 WP | (14: wheat, oats, rye) (28: barley) | + | + | + | + |
| Armyworm | malathion | organophosphate (group 1B) | FYFANON 50 EC MALATHION 85 E MALATHION 500 E MALATHION 500 EC | 7 | + | + | + | + |
| | malathion | organophosphate (group 1B) | MALATHION ULV CONCENTRATE | 7 | + | + | + | NR |
| | carbaryl | carbamate (group 1A) | SEVIN 50 WP SEVIN XLR SEVIN XLR PLUS | (14: wheat, oats, rye) (28: barley) | + | + | + | + |
| | carbaryl | carbamate (group 1A) | SEVIN SL | 14 | + | + | + | + |
| | chlorpyrifos | organophosphate (group 1B) | CLOREX 480 EC LORSBAN 4E PYRINEX 480 EC | 60 | + | + | + | NR |
| | methomyl | carbamate (group 1A) | LANNATE L LANNATE TOSS-N-GO | 20 | + | + | + | NR |
| | trichlorfon | organophosphate (group 1B) | DYLOX 80 SP DYLOX 420 L | 21 | + | + | + | NR |

Notes: 1) A plus sign "+" denotes 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 quantity of product per litres of water. 4) See specific labels for specific rates. 5) Malathion works best at temperatures above 20 degrees Celsius. 6) Follow all instructions according to the label. Label instructions take precedence over this document. 7) NR = not registered.