

# ONTARIO FORAGE CROP INVESTIGATIONS



## 2003 REPORT ON FIELD TRIALS OF VARIETIES AND MIXTURES

- Huron Park
- Guelph
- Kemptville
- New Liskeard
- Thunder Bay

# **REPORT ON FORAGE CROPS TRIALS**

## **ONTARIO FORAGE CROP COMMITTEE**

**Compiled by: Donna Hancock**

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**Conducted co-operatively by:**

**University of Guelph  
Ontario Ministry of Agriculture, Food and Rural Affairs  
Agriculture and Agri-Food Canada.**

**This is the 2003 Ontario Forage Crop Investigations Report. The information contained here was published as submitted by the crop coordinators. Names and addresses of each crop coordinator are provided to facilitate further inquiries if such a need arises.**

***Not For Publication:* This is a progress report of co-operative investigations containing data, the interpretation of which may be modified with additional experimentation. Therefore, publication of any data or statements herein should not be made without prior written approval of the organization and personnel concerned.**

# ONTARIO FORAGE CROP COMMITTEE VARIETY SUB-COMMITTEE

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Chair

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## Testing Location

|                    |                      |
|--------------------|----------------------|
| Thunder Bay        | (807) 475-8180       |
| New Liskeard       | (705) 647-8525 x223  |
| Kemptville         | (613) 258-8336 x444  |
| Elora (Guelph)     | (519) 824-4120 x8704 |
| Huron Research Stn | (519) 235-4075       |

## Name of Cooperators

|                 |
|-----------------|
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| Mr. J. Johnston |
| Mr. J. Madill   |
| Dr. S.R. Bowley |
| Mr. C. Gillard  |

*Additional copies of this report is obtainable from the Secretary (Mr. Jim Johnston).*

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## Notes

1) Test inspected in Spring 2003 and were rejected:

Kemptville: Brome 2001

Huron: Alfalfa registration 2002

Elora:

New Liskeard: White clover 2001

2) Tests rejected by coordinator at time of Data compilation due to High C.V. or other problems

Kemptville: Alfalfa '01, Meadow Brome '02, Tall fescue '01

Huron:

Elora:

New Liskeard:

Thunder Bay: Alfalfa Persistence 2000, Alfalfa B 2000, Brome A 2000

3) Thirteen trials at the Elora Research Station had a hay traffic study stress imposed on Reps 1 and 4 five days post cutting following harvests 1 and 2 in 2003. A variety by stress interaction was detected in a number of tests. Data presented in this book is only for the two replicates that did not receive the traffic stress, namely reps 2 and 3.

ONTARIO  
 Elora  
 OFCC Alfalfa Trial A  
 Expt. 2804  
 Seeded 2002

| Code | Cultivar   | 2003 (kg/ha) |        |        | Tot03  |
|------|------------|--------------|--------|--------|--------|
|      |            | Cut 1        | Cut 2  | Cut 3  |        |
| 1298 | 5312       | 5346         | 3459   | 2331   | 11098  |
| 1325 | MAGNUM_IV  | 4851         | 3716   | 2569   | 11178  |
| 1432 | A2693      | 5496         | 3853   | 2664   | 12041  |
| 1466 | A3294      | 5428         | 3597   | 2411   | 11435  |
| 1467 | A3494      | 6079         | 3556   | 2257   | 11846  |
| 1579 | ASCEND     | 5659         | 3792   | 2778   | 12176  |
| 1580 | 3M49       | 4700         | 3503   | 2639   | 10750  |
| 1581 | 54Q25      | 5166         | 3627   | 2468   | 11237  |
| 1582 | 54H46      | 5039         | 3899   | 2854   | 11876  |
| 1583 | 55V05      | 5028         | 3653   | 2433   | 11093  |
| 1584 | 54H91      | 5797         | 3720   | 2505   | 11965  |
| 1585 | DAKOTA     | 5084         | 4078   | 2896   | 12057  |
| 1586 | CK2000     | 5258         | 3828   | 2730   | 11816  |
| 1587 | DS9809     | 5335         | 3786   | 2725   | 11786  |
| 1588 | DS015      | 5216         | 3814   | 2754   | 11783  |
| 1589 | DS231      | 5442         | 3794   | 2759   | 12057  |
| 1590 | DS232      | 5621         | 3944   | 2851   | 12460  |
| 1591 | A3300      | 5010         | 3365   | 2390   | 10899  |
| 900  | Mean       | 5309         | 3721   | 2612   | 11642  |
| 901  | CV         | 10.0         | 6.1    | 6.9    | 5.9    |
| 905  | MCV        | 11.9         | 7.3    | 8.2    | 7.1    |
| 902  | LSD        | 630.5        | 271.5  | 214.8  | 823.8  |
| 906  | LSR        | 45.7         | 38.1   | 33.6   | 48.2   |
| 907  | Pr>F(Trts) | 0.0871       | 0.0064 | 0.0000 | 0.0307 |
| 908  | R_square   | 74.9         | 77.2   | 86.1   | 81.0   |

RCBD arrangement, 4 blocks {1234}  
 Nearest-neighbour covariance adjusted.

ONTARIO  
 New Liskeard  
 Alfalfa registration test  
 Expt. 200203  
 Seeded 2002

| Code | Cultivar   | 2003 (kg/ha) |        |        |
|------|------------|--------------|--------|--------|
|      |            | Cut 1        | Cut 2  | Tot03  |
| 1298 | 5312       | 6501         | 4952   | 11419  |
| 1325 | MAGNUM_IV  | 6233         | 4594   | 10853  |
| 1432 | A2693      | 6374         | 4847   | 11092  |
| 1466 | A3294      | 6439         | 4925   | 11374  |
| 1467 | A3494      | 6976         | 4982   | 11994  |
| 1581 | 54Q25      | 5856         | 4321   | 10113  |
| 1582 | 54H46      | 6380         | 4541   | 10955  |
| 1583 | 55V05      | 6510         | 4521   | 10935  |
| 1587 | DS9809     | 6437         | 4779   | 11236  |
| 1588 | DS015      | 6596         | 4833   | 11533  |
| 1589 | DS231      | 5886         | 4843   | 10763  |
| 1590 | DS232      | 5940         | 4703   | 10714  |
| 1591 | A3300      | 5929         | 4241   | 10159  |
| 900  | Mean       | 6312         | 4699   | 11011  |
| 901  | CV         | 7.1          | 6.9    | 5.3    |
| 905  | MCV        | 8.5          | 8.3    | 6.4    |
| 902  | LSD        | 536.1        | 389.2  | 699.8  |
| 906  | LSR        | 47.9         | 52.5   | 37.2   |
| 907  | Pr>F(Trts) | 0.0354       | 0.0431 | 0.0037 |
| 908  | R_square   | 62.4         | 53.6   | 68.1   |

RCBD arrangement, 4 blocks {1234}  
 Nearest-neighbour covariance adjusted.

ONTARIO  
 Pakenham  
 Alfalfa Performance Trial 2002  
 Expt. 3179  
 Seeded 2002

| Code | Cultivar    | 2003 (kg/ha) |        |        | Tot03  |
|------|-------------|--------------|--------|--------|--------|
|      |             | Cut 1        | Cut 2  | Cut 3  |        |
| 1001 | SARANAC     | 3808         | 3642   | 3854   | 11304  |
| 1298 | 5312        | 3663         | 3744   | 3388   | 10795  |
| 1325 | MAGNUM_IV   | 4016         | 3557   | 3861   | 11435  |
| 1579 | ASCEND      | 3642         | 4101   | 4359   | 12102  |
| 1580 | 3M49        | 4281         | 4053   | 3831   | 12166  |
| 1581 | 54Q25       | 3700         | 3817   | 3884   | 11401  |
| 1582 | 54H46       | 3659         | 4036   | 4372   | 12067  |
| 1583 | 55V05       | 3488         | 3671   | 3803   | 10962  |
| 1584 | 54H91       | 3850         | 3874   | 3895   | 11620  |
| 1585 | DAKOTA      | 3860         | 4110   | 3895   | 11866  |
| 1587 | DS9809      | 3976         | 4048   | 4130   | 12154  |
| 1588 | DS015       | 4063         | 3517   | 3797   | 11377  |
| 1589 | DS231       | 3635         | 3968   | 3955   | 11558  |
| 1590 | DS232       | 3993         | 3957   | 3992   | 11942  |
| 900  | Mean        | 3831         | 3864   | 3930   | 11625  |
| 901  | CV          | 11.4         | 8.1    | 9.1    | 7.3    |
| 905  | MCV         | 13.7         | 9.7    | 11.0   | 8.7    |
| 902  | LSD         | 524.2        | 375.4  | 430.5  | 1016.2 |
| 906  | LSR         | 66.0         | 63.3   | 43.7   | 74.1   |
| 907  | Pr>F (Trts) | 0.4883       | 0.0905 | 0.0678 | 0.3959 |
| 908  | R_square    | 28.4         | 36.9   | 42.1   | 29.8   |

RCBD arrangement, 4 blocks {1234}



ONTARIO  
 Elora  
 Alfalfa Performance Trial  
 Expt. 2802  
 Seeded 2001

| Code | Cultivar     | 2003 (kg/ha) |        |        | Tot03  | Tot02  | 2yrTot |
|------|--------------|--------------|--------|--------|--------|--------|--------|
|      |              | Cut 1        | Cut 2  | Cut 3  |        |        |        |
| 1001 | SARANAC      | 5467         | 3353   | 3235   | 12055  | 10804  | 22859  |
| 1285 | FORERUNNER   | 5033         | 3791   | 3362   | 12186  | 10015  | 22201  |
| 1290 | ACCEL        | 4777         | 3315   | 3315   | 11408  | 9318   | 20725  |
| 1298 | 5312         | 5867         | 3063   | 2885   | 11814  | 9262   | 21076  |
| 1306 | PROOF        | 4340         | 3540   | 3373   | 11253  | 10177  | 21431  |
| 1324 | HORNET       | 5517         | 3351   | 3308   | 12176  | 9710   | 21887  |
| 1325 | MAGNUM_IV    | 5837         | 3479   | 3248   | 12564  | 10405  | 22970  |
| 1361 | ABUNDANCE    | 7023         | 3547   | 3314   | 13884  | 9578   | 23462  |
| 1362 | DEEPKROWN    | 5694         | 2956   | 3080   | 11730  | 9479   | 21209  |
| 1388 | GOLD_PLUS_MF | 4353         | 2929   | 3108   | 10390  | 9510   | 19900  |
| 1419 | 54V54        | 5146         | 3390   | 3141   | 11678  | 9487   | 21165  |
| 1474 | GENEVA       | 6325         | 3673   | 3325   | 13322  | 10159  | 23481  |
| 1475 | NK711MF      | 4809         | 3604   | 3220   | 11633  | 10016  | 21649  |
| 1494 | 53Q60        | 5889         | 3266   | 3093   | 12248  | 10309  | 22557  |
| 1525 | FORECAST_100 | 6175         | 3744   | 3233   | 13152  | 10197  | 23349  |
| 1531 | INTRIGUE     | 5883         | 3886   | 3349   | 13118  | 9909   | 23027  |
| 1536 | X787         | 5049         | 2816   | 2955   | 10820  | 9843   | 20663  |
| 1567 | SX1001A      | 5937         | 3171   | 2979   | 12086  | 10263  | 22350  |
| 1568 | SX1002A      | 4583         | 3105   | 3074   | 10762  | 10022  | 20784  |
| 1569 | SX1003A      | 5323         | 3250   | 3154   | 11727  | 9907   | 21635  |
| 1570 | SX1004A      | 5151         | 3169   | 2947   | 11268  | 9260   | 20527  |
| 1571 | SX1005A      | 6429         | 3406   | 3299   | 13134  | 9847   | 22981  |
| 1572 | ZC9854A      | 3929         | 3400   | 3350   | 10679  | 9249   | 19928  |
| 1573 | AMERISTAND40 | 5659         | 3305   | 3176   | 12140  | 9778   | 21918  |
| 1574 | NS0_M5       | 3790         | 3105   | 3099   | 9994   | 9537   | 19530  |
| 1575 | CIMARRON3I   | 5691         | 2996   | 3068   | 11756  | 8847   | 20603  |
| 1576 | M777         | 5718         | 3001   | 2847   | 11566  | 8869   | 20435  |
| 1577 | STARBUCK     | 6411         | 3786   | 3096   | 13293  | 10603  | 23896  |
| 900  | Mean         | 5422         | 3336   | 3165   | 11923  | 9799   | 21721  |
| 901  | CV           | 17.6         | 5.4    | 5.9    | 9.1    | 5.9    | 6.3    |
| 905  | MCV          | 30.0         | 9.2    | 10.1   | 15.5   | 10.0   | 10.7   |
| 902  | LSD          | 1623.8       | 306.4  | 318.2  | 1846.0 | 980.1  | 2328.8 |
| 906  | LSR          | 50.2         | 28.6   | 60.5   | 47.5   | 50.1   | 53.3   |
| 907  | Pr>F(Trts)   | 0.2256       | 0.0000 | 0.2310 | 0.1315 | 0.1789 | 0.1095 |
| 908  | R_square     | 57.5         | 84.0   | 57.9   | 60.7   | 58.9   | 61.8   |

RCBD arrangement, 2 blocks {23}

ONTARIO  
 Elora  
 Registration Trial A  
 Expt. 2794  
 Seeded 2001

| Code | Cultivar     | 2003 (kg/ha) |        |        | Tot03  | Tot02  | 2yrTot |
|------|--------------|--------------|--------|--------|--------|--------|--------|
|      |              | Cut 1        | Cut 2  | Cut 3  |        |        |        |
| 1001 | SARANAC      | 5189         | 3083   | 2332   | 10604  | 10774  | 21378  |
| 1298 | 5312         | 5842         | 2786   | 2403   | 11032  | 10783  | 21815  |
| 1325 | MAGNUM_IV    | 5272         | 3130   | 2717   | 11120  | 10972  | 22091  |
| 1529 | VALUEPLUS1   | 4838         | 3385   | 2862   | 11085  | 10687  | 21772  |
| 1530 | 3R58         | 5101         | 3817   | 2830   | 11748  | 11234  | 22981  |
| 1531 | INTRIGUE     | 4292         | 3585   | 2940   | 10817  | 11190  | 22007  |
| 1534 | A9502        | 5759         | 3035   | 2644   | 11437  | 11150  | 22587  |
| 1535 | RELIANCE     | 5275         | 3542   | 2749   | 11566  | 10072  | 21638  |
| 1536 | X787         | 4821         | 3294   | 2803   | 10919  | 10562  | 21481  |
| 1537 | X688         | 4562         | 3245   | 2482   | 10289  | 10108  | 20397  |
| 1538 | DS025        | 5027         | 2720   | 2351   | 10097  | 10056  | 20153  |
| 1539 | DS026        | 5073         | 3311   | 2856   | 11241  | 10761  | 22002  |
| 1540 | 5301ML       | 4850         | 3190   | 2822   | 10862  | 10453  | 21315  |
| 1541 | TMF_MULT_III | 5376         | 3540   | 2821   | 11737  | 10962  | 22699  |
| 1542 | DS9810       | 5151         | 3497   | 2852   | 11501  | 10682  | 22183  |
| 1543 | ONEIDA_ULTRA | 5042         | 3090   | 2475   | 10607  | 10244  | 20850  |
| 1544 | CW73038      | 5159         | 3464   | 2647   | 11270  | 10744  | 22013  |
| 900  | Mean         | 5096         | 3277   | 2682   | 11055  | 10673  | 21727  |
| 901  | CV           | 9.1          | 8.9    | 10.7   | 3.8    | 9.5    | 5.6    |
| 905  | MCV          | 15.8         | 15.6   | 18.6   | 6.6    | 16.6   | 9.9    |
| 902  | LSD          | 806.1        | 509.8  | 499.5  | 735.1  | 1771.1 | 2141.3 |
| 906  | LSR          | 52.0         | 46.5   | 82.2   | 44.5   | 150.4  | 75.7   |
| 907  | Pr>F(Trts)   | 0.2793       | 0.0949 | 0.5238 | 0.0335 | 0.9920 | 0.6999 |
| 908  | R_square     | 58.5         | 67.9   | 49.4   | 72.1   | 22.5   | 43.7   |

RCBD arrangement, 2 blocks {23}

ONTARIO  
 New Liskeard  
 Alfalfa Registration Test  
 Expt. 200103  
 Seeded 2001

| Code | Cultivar     | 2003 (kg/ha) |        | Tot03  | Tot02  | 2yrTot |
|------|--------------|--------------|--------|--------|--------|--------|
|      |              | Cut 1        | Cut 2  |        |        |        |
| 1001 | SARANAC      | 9463         | 5003   | 14493  | 10711  | 24802  |
| 1298 | 5312         | 9300         | 4738   | 14101  | 9309   | 23132  |
| 1325 | MAGNUM_IV    | 9869         | 5225   | 15082  | 9445   | 24725  |
| 1361 | ABUNDANCE    | 9403         | 5012   | 14398  | 9156   | 23353  |
| 1419 | 54V54        | 10169        | 5031   | 15196  | 9635   | 25014  |
| 1474 | GENEVA       | 9420         | 5183   | 14559  | 10573  | 25138  |
| 1475 | NK711MF      | 9733         | 4895   | 14583  | 10400  | 24912  |
| 1494 | 53Q60        | 8846         | 4701   | 13648  | 8544   | 22043  |
| 1507 | MAGNUM_V-WET | 8895         | 5031   | 14050  | 10735  | 24759  |
| 1529 | VALUEPLUS1   | 9859         | 4862   | 14462  | 9666   | 24436  |
| 1530 | 3R58         | 10436        | 5162   | 15573  | 9762   | 25581  |
| 1531 | INTRIGUE     | 9384         | 5231   | 14555  | 9053   | 23889  |
| 1534 | A9502        | 8590         | 5167   | 13854  | 9760   | 23409  |
| 1535 | RELIANCE     | 9705         | 5035   | 14733  | 10223  | 25111  |
| 1536 | X787         | 9813         | 4980   | 14710  | 10104  | 24675  |
| 1537 | X688         | 9738         | 5522   | 15445  | 9997   | 25136  |
| 1538 | DS025        | 9096         | 4764   | 13785  | 9434   | 23499  |
| 1539 | DS026        | 10073        | 5432   | 15572  | 9070   | 24660  |
| 1540 | 5301ML       | 6454         | 5032   | 11474  | 10168  | 21864  |
| 1541 | TMF_MULT_III | 10274        | 5108   | 15402  | 11012  | 26262  |
| 1542 | DS9810       | 9604         | 5256   | 14951  | 10001  | 24778  |
| 1543 | ONEIDA_ULTRA | 9187         | 4999   | 14043  | 10615  | 24568  |
| 1544 | CW73038      | 9636         | 5022   | 14672  | 9552   | 24519  |
| 900  | Mean         | 9432         | 5061   | 14493  | 9866   | 24359  |
| 901  | CV           | 14.9         | 7.4    | 10.2   | 10.4   | 8.4    |
| 905  | MCV          | 17.6         | 8.8    | 12.0   | 12.2   | 9.9    |
| 902  | LSD          | 1660.6       | 444.0  | 1738.3 | 1208.4 | 2404.1 |
| 906  | LSR          | 41.7         | 54.1   | 42.4   | 49.0   | 54.7   |
| 907  | Pr>F(Trts)   | 0.2434       | 0.3636 | 0.1749 | 0.1056 | 0.4017 |
| 908  | R_square     | 36.1         | 54.4   | 41.0   | 55.8   | 39.1   |

RCBD arrangement, 4 blocks {1234}  
 Nearest-neighbour covariance adjusted.

ONTARIO  
 Elora  
 Alfalfa Reg A 2000  
 Expt. 2793  
 Seeded 2000

| Code | Cultivar     | 2003 (kg/ha) |        |        | Tot03  | Tot02  | Tot01  | 3yrTot |
|------|--------------|--------------|--------|--------|--------|--------|--------|--------|
|      |              | Cut 1        | Cut 2  | Cut 3  |        |        |        |        |
| 1001 | SARANAC      | 5032         | 3316   | 2498   | 10846  | 9287   | 11302  | 31436  |
| 1074 | ARROW        | 5009         | 3511   | 2715   | 11235  | 8915   | 11584  | 31734  |
| 1298 | 5312         | 5418         | 3321   | 2758   | 11497  | 10305  | 12224  | 34026  |
| 1325 | MAGNUM_IV    | 5673         | 3497   | 2762   | 11931  | 10331  | 12268  | 34530  |
| 1529 | VALUEPLUS1   | 5129         | 4273   | 3103   | 12505  | 11387  | 13403  | 37296  |
| 1530 | 3R58         | 5639         | 4220   | 3127   | 12986  | 12172  | 12804  | 37962  |
| 1531 | INTRIGUE     | 5957         | 4268   | 3071   | 13296  | 10922  | 13453  | 37671  |
| 1533 | TRAILBLAZER3 | 4776         | 3263   | 2926   | 10965  | 9078   | 12386  | 32428  |
| 1534 | A9502        | 5118         | 3815   | 2727   | 11661  | 9701   | 12085  | 33447  |
| 1535 | RELIANCE     | 5088         | 4137   | 3261   | 12486  | 12198  | 13177  | 37861  |
| 1536 | X787         | 4416         | 4126   | 3014   | 11556  | 11603  | 13485  | 36644  |
| 1537 | X688         | 5038         | 4525   | 3043   | 12606  | 11874  | 13786  | 38266  |
| 1538 | DS025        | 4810         | 3264   | 2555   | 10629  | 8409   | 12551  | 31589  |
| 1539 | DS026        | 5301         | 3784   | 3058   | 12142  | 10719  | 12241  | 35102  |
| 1540 | 5301ML       | 4413         | 3485   | 2708   | 10607  | 9475   | 11900  | 31982  |
| 1541 | TMF_MULT_III | 4516         | 4311   | 2969   | 11795  | 12288  | 13247  | 37330  |
| 1542 | DS9810       | 5417         | 3948   | 2784   | 12148  | 10834  | 11785  | 34766  |
| 1543 | ONEIDA_ULTRA | 5472         | 3618   | 2763   | 11853  | 10078  | 12475  | 34407  |
| 1544 | CW73038      | 5675         | 3987   | 3087   | 12748  | 10824  | 13232  | 36805  |
| 9053 | CENTURION    | 4485         | 3661   | 2634   | 10780  | 9461   | 11592  | 31833  |
| 900  | Mean         | 5119         | 3817   | 2878   | 11814  | 10493  | 12549  | 34856  |
| 901  | CV           | 13.4         | 4.3    | 6.4    | 5.5    | 6.2    | 7.0    | 3.4    |
| 905  | MCV          | 23.2         | 7.4    | 11.1   | 9.4    | 10.7   | 12.1   | 5.9    |
| 902  | LSD          | 1187.2       | 284.2  | 320.2  | 1115.6 | 1119.1 | 1516.0 | 2069.1 |
| 906  | LSR          | 76.9         | 22.5   | 42.0   | 41.5   | 28.9   | 61.0   | 30.3   |
| 907  | Pr>F(Trts)   | 0.6125       | 0.0000 | 0.0198 | 0.0086 | 0.0001 | 0.2299 | 0.0000 |
| 908  | R_square     | 47.2         | 92.6   | 77.2   | 76.3   | 87.9   | 64.0   | 90.0   |

RCBD arrangement, 2 blocks {23}

ONTARIO  
Huron Park  
Alfalfa Registration A  
Expt. 5044  
Seeded 2000

| Code | Cultivar     | 2003 (kg/ha) |        | Tot03  | Tot02  | Tot01  | 3yrTot |
|------|--------------|--------------|--------|--------|--------|--------|--------|
|      |              | Cut 1        | Cut 2  |        |        |        |        |
| 1001 | SARANAC      | 7064         | 5802   | 12909  | 12897  | 14982  | 40678  |
| 1074 | ARROW        | 7312         | 6061   | 13495  | 13119  | 14964  | 40801  |
| 1298 | 5312         | 7111         | 5581   | 12774  | 13599  | 17303  | 43624  |
| 1325 | MAGNUM_IV    | 6943         | 5325   | 12186  | 13302  | 15331  | 41239  |
| 1529 | VALUEPLUS1   | 7278         | 5721   | 12930  | 12051  | 15490  | 39848  |
| 1530 | 3R58         | 6422         | 5236   | 11608  | 14089  | 15419  | 41445  |
| 1531 | INTRIGUE     | 6701         | 5495   | 12131  | 13357  | 15817  | 41037  |
| 1533 | TRAILBLAZER3 | 6951         | 5944   | 12941  | 13639  | 15767  | 42262  |
| 1534 | A9502        | 7142         | 6158   | 13345  | 12118  | 17904  | 42911  |
| 1535 | RELIANCE     | 6520         | 4657   | 11215  | 12869  | 13445  | 38065  |
| 1536 | X787         | 6119         | 4768   | 10803  | 12723  | 15894  | 39655  |
| 1537 | X688         | 6547         | 5331   | 11775  | 13752  | 16315  | 41908  |
| 1538 | DS025        | 7366         | 5804   | 13253  | 13705  | 16144  | 43296  |
| 1539 | DS026        | 7015         | 5265   | 12238  | 13856  | 16209  | 42199  |
| 1540 | 5301ML       | 6409         | 5078   | 11518  | 13926  | 15881  | 41493  |
| 1541 | TMF_MULT_III | 7155         | 5483   | 12575  | 13161  | 18038  | 44122  |
| 1542 | DS9810       | 6902         | 5718   | 12445  | 12354  | 16223  | 41120  |
| 1543 | ONEIDA_ULTRA | 7058         | 5409   | 12498  | 13028  | 16536  | 42734  |
| 1544 | CW73038      | 6939         | 5224   | 12273  | 13030  | 15696  | 40985  |
| 9053 | CENTURION    | 6797         | 5885   | 12781  | 12630  | 16360  | 41192  |
| 900  | MEAN         | 6887         | 5497   | 12385  | 13160  | 15986  | 41531  |
| 901  | CV           | 7.3          | 12.3   | 7.5    | 11.3   | 11.7   | 7.6    |
| 905  | MCV          | 8.7          | 14.7   | 8.9    | 13.4   | 13.9   | 9.0    |
| 902  | LSD          | 600.5        | 808.3  | 1107.6 | 1764.4 | 2222.1 | 3750.2 |
| 906  | LSR          | 48.2         | 53.9   | 41.1   | 86.6   | 48.4   | 61.9   |
| 907  | PR>F (TRTS)  | 0.0883       | 0.2725 | 0.0226 | 0.8658 | 0.3072 | 0.6969 |

RCBD arrangement, 4 blocks {1234}  
Nearest-neighbour covariance adjusted.

ONTARIO  
 Elora  
 Registration Trial B 2000  
 Expt. 2780  
 Seeded 2000

| Code | Cultivar     | 2003 (kg/ha) |        | Cut 3  | Tot03  | Tot02  | Tot01  | 3yrTot |
|------|--------------|--------------|--------|--------|--------|--------|--------|--------|
|      |              | Cut 1        | Cut 2  |        |        |        |        |        |
| 1001 | SARANAC      | 3918         | 3607   | 2810   | 10335  | 9402   | 12445  | 32182  |
| 1074 | ARROW        | 4741         | 3854   | 3073   | 11668  | 9394   | 13414  | 34476  |
| 1163 | PICKSD8920MF | 5240         | 4226   | 2957   | 12423  | 10658  | 14214  | 37295  |
| 1497 | DK124        | 4586         | 4393   | 3170   | 12149  | 11274  | 13971  | 37395  |
| 1499 | CW63002      | 4863         | 4452   | 3161   | 12477  | 11099  | 14091  | 37667  |
| 1502 | ROCKET       | 4092         | 4697   | 3340   | 12129  | 10948  | 14700  | 37777  |
| 1504 | PICKSD2065MF | 4712         | 4506   | 3263   | 12481  | 12659  | 14316  | 39455  |
| 1506 | DS9412       | 4471         | 4211   | 3118   | 11800  | 10584  | 14480  | 36864  |
| 1508 | DS9920       | 5021         | 4167   | 2994   | 12182  | 10681  | 13362  | 36225  |
| 1512 | C304         | 5033         | 4219   | 3165   | 12417  | 10359  | 13656  | 36433  |
| 1514 | C232         | 4759         | 3686   | 2719   | 11164  | 9257   | 14586  | 35008  |
| 1517 | A9513        | 5097         | 3886   | 2876   | 11859  | 10854  | 15290  | 38004  |
| 1519 | ZG9639       | 4746         | 3763   | 2848   | 11357  | 9657   | 13612  | 34626  |
| 1521 | DS101        | 6072         | 4255   | 3079   | 13406  | 10660  | 14246  | 38311  |
| 1523 | DS9833       | 4048         | 4105   | 2926   | 11079  | 10392  | 13542  | 35012  |
| 1526 | QS-3         | 4756         | 4330   | 3010   | 12096  | 10679  | 14076  | 36851  |
| 1528 | NSCL_27      | 5413         | 4019   | 3142   | 12573  | 10714  | 15271  | 38559  |
| 9053 | CENTURION    | 4572         | 3556   | 2902   | 11030  | 9971   | 14079  | 35080  |
| 900  | Mean         | 4786         | 4107   | 3031   | 11924  | 10513  | 14075  | 36512  |
| 901  | CV           | 17.0         | 4.7    | 5.2    | 6.7    | 5.2    | 4.6    | 3.1    |
| 905  | MCV          | 29.6         | 8.1    | 9.0    | 11.6   | 9.1    | 8.0    | 5.5    |
| 902  | LSD          | 1414.6       | 332.8  | 272.3  | 1385.3 | 959.5  | 1119.9 | 1999.5 |
| 906  | LSR          | 65.7         | 29.2   | 43.8   | 45.1   | 28.2   | 39.4   | 27.5   |
| 907  | Pr>F(Trts)   | 0.6825       | 0.0004 | 0.0529 | 0.1530 | 0.0023 | 0.0472 | 0.0010 |
| 908  | R_square     | 44.4         | 85.5   | 69.8   | 63.0   | 83.0   | 85.2   | 88.1   |

RCBD arrangement, 2 blocks {23}

ONTARIO  
Huron Park  
Alfalfa Registration B  
Expt. 5055  
Seeded 2000

| Code | Cultivar     | 2003 (kg/ha) |        | Tot03  | Tot02  | Tot01  | 3yrTot |
|------|--------------|--------------|--------|--------|--------|--------|--------|
|      |              | Cut 1        | Cut 2  |        |        |        |        |
| 1001 | SARANAC      | 7369         | 6030   | 13256  | 12218  | 17512  | 43320  |
| 1074 | ARROW        | 7034         | 5919   | 13023  | 12479  | 18074  | 43368  |
| 1163 | PICKSD8920MF | 7196         | 5196   | 12364  | 12969  | 16973  | 42227  |
| 1497 | DK124        | 7478         | 5190   | 12474  | 14044  | 17709  | 44880  |
| 1499 | CW63002      | 7539         | 6274   | 13854  | 13965  | 18156  | 46245  |
| 1502 | ROCKET       | 7859         | 5178   | 12671  | 12262  | 17987  | 42663  |
| 1504 | PICKSD2065MF | 7016         | 5195   | 12221  | 13383  | 16662  | 42229  |
| 1506 | DS9412       | 6847         | 4857   | 11842  | 13050  | 17104  | 42317  |
| 1508 | DS9920       | 7709         | 5274   | 13088  | 13073  | 17276  | 43099  |
| 1512 | C304         | 7684         | 5113   | 12645  | 13336  | 16592  | 42236  |
| 1514 | C232         | 8164         | 5624   | 14030  | 14414  | 18144  | 46632  |
| 1517 | A9513        | 7118         | 5440   | 12696  | 12910  | 16721  | 42204  |
| 1519 | ZG9639       | 6938         | 5318   | 12288  | 13258  | 16405  | 41770  |
| 1521 | DS101        | 7151         | 5543   | 12577  | 13243  | 16397  | 42681  |
| 1523 | DS9833       | 6910         | 5083   | 12241  | 13200  | 17954  | 43233  |
| 1526 | QS-3         | 7922         | 5588   | 13598  | 12926  | 17499  | 44367  |
| 1528 | NSCL_27      | 7137         | 5430   | 12478  | 12875  | 17125  | 41958  |
| 9053 | CENTURION    | 7468         | 5487   | 12928  | 13130  | 16811  | 42680  |
| 900  | MEAN         | 7363         | 5430   | 12793  | 13152  | 17283  | 43228  |
| 901  | CV           | 9.5          | 11.8   | 7.7    | 7.1    | 7.8    | 5.3    |
| 905  | MCV          | 11.3         | 14.1   | 9.2    | 8.5    | 9.3    | 6.3    |
| 902  | LSD          | 833.2        | 763.4  | 1172.8 | 1113.4 | 1599.7 | 2739.8 |
| 906  | LSR          | 63.3         | 53.9   | 53.6   | 50.7   | 91.0   | 56.4   |
| 907  | PR>F (TRTS)  | 0.2873       | 0.3320 | 0.1748 | 0.1961 | 0.6551 | 0.1278 |

RCBD arrangement, 4 blocks {1234}  
Nearest-neighbour covariance adjusted.

ONTARIO  
 Elora  
 Alfalfa Reg Trial C 2000  
 Expt. 2781  
 Seeded 2000

| Code | Cultivar     | 2003 (kg/ha) |        | Cut 3  | Tot03  | Tot02  | Tot01  | 3yrTot |
|------|--------------|--------------|--------|--------|--------|--------|--------|--------|
|      |              | Cut 1        | Cut 2  |        |        |        |        |        |
| 1001 | SARANAC      | 4563         | 3316   | 2303   | 10182  | 8668   | 11279  | 30129  |
| 1074 | ARROW        | 5487         | 3408   | 2514   | 11410  | 9183   | 12907  | 33499  |
| 1498 | DK134        | 5347         | 4330   | 2895   | 12572  | 11105  | 13343  | 37019  |
| 1500 | PERFECT      | 4785         | 3972   | 2650   | 11406  | 10155  | 14424  | 35985  |
| 1501 | A9401        | 5748         | 3714   | 2521   | 11983  | 9783   | 13886  | 35653  |
| 1503 | A9624        | 4641         | 4673   | 2969   | 12283  | 11293  | 14131  | 37706  |
| 1505 | SL9903       | 5299         | 3694   | 2452   | 11445  | 8960   | 13464  | 33869  |
| 1507 | MAGNUM V-WET | 4557         | 4209   | 2807   | 11572  | 10259  | 12501  | 34333  |
| 1509 | PAR_4338     | 5134         | 3959   | 2702   | 11795  | 9739   | 13458  | 34992  |
| 1511 | C227         | 4857         | 3823   | 2428   | 11109  | 9518   | 12602  | 33229  |
| 1513 | GH750        | 5196         | 3716   | 2560   | 11473  | 9510   | 13701  | 34684  |
| 1515 | PLATINUM     | 5088         | 3472   | 2399   | 10959  | 9433   | 12435  | 32827  |
| 1516 | A9501        | 5268         | 3654   | 2615   | 11536  | 10040  | 13297  | 34873  |
| 1518 | POWER_PLANT  | 4866         | 4043   | 2600   | 11509  | 10122  | 13097  | 34728  |
| 1520 | ZC9544       | 5449         | 3742   | 2610   | 11801  | 9419   | 13417  | 34638  |
| 1522 | FORECAST_300 | 5758         | 4102   | 2625   | 12485  | 9682   | 12855  | 35023  |
| 1524 | DS9705       | 5223         | 4172   | 2855   | 12250  | 10879  | 13785  | 36914  |
| 1525 | FORECAST_100 | 3987         | 4226   | 2849   | 11063  | 11568  | 13673  | 36304  |
| 1527 | MACON        | 5760         | 4130   | 2828   | 12718  | 10725  | 14338  | 37781  |
| 9053 | CENTURION    | 4801         | 3323   | 2367   | 10491  | 8883   | 13281  | 32655  |
| 900  | Mean         | 5091         | 3884   | 2627   | 11602  | 9946   | 13294  | 34842  |
| 901  | CV           | 12.5         | 5.5    | 8.4    | 5.0    | 5.4    | 8.1    | 4.7    |
| 905  | MCV          | 21.7         | 9.5    | 14.6   | 8.7    | 9.3    | 14.1   | 8.1    |
| 902  | LSD          | 1102.2       | 369.6  | 382.5  | 1004.0 | 927.2  | 1869.8 | 2814.3 |
| 906  | LSR          | 62.2         | 27.2   | 57.4   | 39.6   | 32.0   | 59.5   | 36.8   |
| 907  | Pr>F(Trts)   | 0.4592       | 0.0002 | 0.1956 | 0.0210 | 0.0008 | 0.5627 | 0.0199 |
| 908  | R_square     | 52.2         | 87.4   | 65.5   | 77.3   | 84.3   | 58.6   | 79.0   |

RCBD arrangement, 2 blocks {23}



ONTARIO  
Huron Park  
Alfalfa Registration C  
Expt. 5056  
Seeded 2000

| Code | Cultivar     | 2003 (kg/ha) |        | Tot03  | Tot02  | Tot01  | 3yrTot |
|------|--------------|--------------|--------|--------|--------|--------|--------|
|      |              | Cut 1        | Cut 2  |        |        |        |        |
| 1001 | SARANAC      | 7059         | 5210   | 12512  | 11575  | 13374  | 37569  |
| 1074 | ARROW        | 6494         | 5236   | 11737  | 12040  | 13876  | 37582  |
| 1498 | DK134        | 7788         | 5171   | 12829  | 11711  | 14280  | 38218  |
| 1500 | PERFECT      | 6634         | 5026   | 11486  | 10885  | 14205  | 36867  |
| 1501 | A9401        | 6547         | 4755   | 11295  | 11303  | 13786  | 36238  |
| 1503 | A9624        | 6892         | 4555   | 11103  | 11948  | 14700  | 37742  |
| 1505 | SL9903       | 6653         | 5025   | 11691  | 12240  | 13779  | 37648  |
| 1507 | MAGNUM_V-WET | 6639         | 4719   | 11412  | 11033  | 14353  | 36857  |
| 1509 | PAR_4338     | 6991         | 4914   | 11972  | 10244  | 12150  | 34483  |
| 1511 | C227         | 6611         | 4916   | 11684  | 12388  | 14119  | 37813  |
| 1513 | GH750        | 6533         | 4490   | 10943  | 11364  | 14459  | 37660  |
| 1515 | PLATINUM     | 6762         | 4335   | 11396  | 11046  | 13793  | 35588  |
| 1516 | A9501        | 6572         | 4782   | 11337  | 11065  | 14534  | 36799  |
| 1518 | POWER_PLANT  | 6534         | 4776   | 11163  | 11148  | 12948  | 35251  |
| 1520 | ZC9544       | 6977         | 4974   | 11938  | 11661  | 13895  | 37627  |
| 1522 | FORECAST_300 | 6457         | 5011   | 11626  | 11417  | 13186  | 36281  |
| 1524 | DS9705       | 6135         | 4649   | 10632  | 11576  | 13783  | 36434  |
| 1525 | FORECAST_100 | 6476         | 5129   | 11696  | 11221  | 15353  | 37689  |
| 1527 | MACON        | 6865         | 4605   | 11249  | 11408  | 14272  | 37383  |
| 9053 | CENTURION    | 6886         | 4909   | 11992  | 10933  | 13568  | 36579  |
| 900  | MEAN         | 6725         | 4859   | 11585  | 11410  | 13921  | 36915  |
| 901  | CV           | 7.5          | 12.3   | 7.1    | 10.0   | 9.8    | 5.1    |
| 905  | MCV          | 8.9          | 14.6   | 8.4    | 12.0   | 11.7   | 6.0    |
| 902  | LSD          | 601.7        | 710.0  | 973.8  | 1365.0 | 1628.6 | 2228.8 |
| 906  | LSR          | 36.4         | 78.8   | 44.3   | 63.7   | 50.8   | 59.7   |
| 907  | PR>F (TRTS)  | 0.0847       | 0.8308 | 0.1473 | 0.7291 | 0.4897 | 0.4300 |

RCBD arrangement, 4 blocks {1234}  
Nearest-neighbour covariance adjusted.

ONTARIO  
Elora  
Alfalfa Reg Trial E  
Expt. 2765  
Seeded 1999

| Code | Cultivar     | Cut 1  | 2003 (kg/ha) |        |        | Tot03  | Tot02  | Tot01  | Tot00  | 4yrTot |
|------|--------------|--------|--------------|--------|--------|--------|--------|--------|--------|--------|
|      |              |        | Cut 2        | Cut 3  |        |        |        |        |        |        |
| 1001 | SARANAC      | 4671   | 2843         | 2006   | 9520   | 7991   | 9412   | 11122  | 38045  |        |
| 1073 | SURPASS      | 5093   | 3183         | 2153   | 10430  | 8338   | 9666   | 10939  | 39373  |        |
| 1074 | ARROW        | 5472   | 2999         | 2053   | 10525  | 7993   | 9688   | 10623  | 38828  |        |
| 1352 | WL_282       | 4838   | 3375         | 2378   | 10591  | 9435   | 10399  | 11706  | 42130  |        |
| 1469 | DK121HG      | 4845   | 2632         | 2021   | 9498   | 6699   | 8090   | 10188  | 34475  |        |
| 1498 | DK134        | 5304   | 3898         | 3291   | 12493  | 10465  | 13135  | 12225  | 48318  |        |
| 1499 | CW63002      | 5977   | 3704         | 2709   | 12390  | 10190  | 11356  | 11726  | 45662  |        |
| 1501 | A9401        | 4450   | 3277         | 2472   | 10199  | 8435   | 9852   | 11287  | 39773  |        |
| 1502 | ROCKET       | 4934   | 3611         | 2890   | 11435  | 10520  | 12051  | 12235  | 46241  |        |
| 1505 | SL9903       | 5294   | 3017         | 2413   | 10724  | 8436   | 10364  | 11503  | 41027  |        |
| 1507 | MAGNUM_V-WE  | 4676   | 3128         | 2638   | 10442  | 9997   | 11773  | 12388  | 44600  |        |
| 1508 | DS9920       | 4698   | 3397         | 2775   | 10871  | 9959   | 12004  | 12079  | 44913  |        |
| 1511 | C227         | 5025   | 3345         | 2787   | 11157  | 9408   | 11572  | 11833  | 43971  |        |
| 1513 | GH750        | 4326   | 3180         | 2616   | 10122  | 9104   | 10893  | 11271  | 41391  |        |
| 1515 | PLATINUM     | 4718   | 3252         | 2530   | 10499  | 9104   | 10310  | 11444  | 41357  |        |
| 1518 | POWER_PLANT  | 5010   | 3644         | 2722   | 11375  | 9686   | 9884   | 10801  | 41747  |        |
| 1522 | FORECAST_304 | 4791   | 3735         | 2688   | 11214  | 9573   | 10960  | 11296  | 43043  |        |
| 1525 | FORECAST_105 | 150    | 4009         | 2930   | 12089  | 10746  | 11067  | 11255  | 45157  |        |
| 1527 | MACON        | 5498   | 3775         | 2712   | 11986  | 10458  | 11700  | 11196  | 45339  |        |
| 1528 | NSCL_27      | 4279   | 3479         | 2653   | 10411  | 10182  | 11498  | 11714  | 43805  |        |
| 9006 | OAC_MINTO    | 4967   | 2955         | 1752   | 9674   | 7749   | 7607   | 9966   | 34997  |        |
| 9041 | ONEIDA_VR    | 4690   | 3216         | 2255   | 10160  | 9618   | 11060  | 10736  | 41575  |        |
| 9053 | CENTURION    | 5083   | 3154         | 2190   | 10427  | 8530   | 9738   | 11854  | 40548  |        |
| 900  | Mean         | 4947   | 3339         | 2506   | 10793  | 9244   | 10612  | 11365  | 42014  |        |
| 901  | CV           | 12.0   | 7.2          | 7.2    | 7.1    | 5.5    | 4.8    | 5.1    | 3.1    |        |
| 905  | MCV          | 20.7   | 12.3         | 12.3   | 12.2   | 9.5    | 8.3    | 8.8    | 5.3    |        |
| 902  | LSD          | 1022.8 | 411.3        | 307.9  | 1314.2 | 875.0  | 879.4  | 1000.2 | 2221.8 |        |
| 906  | LSR          | 60.2   | 29.9         | 20.0   | 43.9   | 21.6   | 15.9   | 41.3   | 16.1   |        |
| 907  | Pr>F(Trts)   | 0.6163 | 0.0006       | 0.0000 | 0.0185 | 0.0000 | 0.0000 | 0.0249 | 0.0000 |        |
| 908  | R_square     | 47.4   | 83.3         | 89.7   | 73.6   | 90.0   | 92.8   | 71.3   | 93.8   |        |

RCBD arrangement, 2 blocks {23}

ONTARIO  
Elora  
Alfalfa Reg Trial H  
Expt. 2768  
Seeded 1999

| Code | Cultivar         | Cut 1  | 2003 (kg/ha) |        |        | Tot03  | Tot02  | Tot01  | Tot00  | 4yrTot |
|------|------------------|--------|--------------|--------|--------|--------|--------|--------|--------|--------|
|      |                  |        | Cut 2        | Cut 3  |        |        |        |        |        |        |
| 1001 | SARANAC          | 4443   | 2754         | 1715   | 8913   | 8749   | 9520   | 11403  | 38584  |        |
| 1074 | ARROW            | 3976   | 2782         | 1674   | 8431   | 8405   | 10054  | 11832  | 38723  |        |
| 1163 | PICKSD8920MF5087 |        | 2645         | 1500   | 9231   | 9222   | 10701  | 13261  | 42415  |        |
| 1470 | TRAILBLAZER      | 4188   | 2419         | 1614   | 8221   | 6957   | 7872   | 11301  | 34350  |        |
| 1474 | GENEVA           | 5024   | 3574         | 2269   | 10867  | 11325  | 12568  | 12937  | 47696  |        |
| 1475 | NK711MF          | 5753   | 3505         | 2306   | 11563  | 10370  | 11450  | 11752  | 45135  |        |
| 1476 | A9423            | 4248   | 2619         | 1614   | 8480   | 6601   | 10468  | 13137  | 38686  |        |
| 1477 | A9503            | 5052   | 2696         | 1805   | 9553   | 8802   | 9885   | 11918  | 40158  |        |
| 1478 | CW5435           | 5164   | 3094         | 2068   | 10326  | 9975   | 11014  | 10903  | 42219  |        |
| 1479 | CW6304           | 4513   | 3042         | 1955   | 9510   | 10279  | 12915  | 13400  | 46104  |        |
| 1480 | FQ314            | 4229   | 2727         | 1665   | 8622   | 9046   | 10626  | 12012  | 40306  |        |
| 1481 | FQ315            | 4982   | 2974         | 2081   | 10036  | 10660  | 12191  | 12172  | 45059  |        |
| 1482 | CW5440           | 5440   | 2999         | 1971   | 10410  | 10200  | 11494  | 12051  | 44155  |        |
| 1483 | ABI_9142         | 4730   | 2902         | 1827   | 9459   | 9056   | 10345  | 12536  | 41396  |        |
| 1486 | AC_BRADOR        | 5246   | 2836         | 1889   | 9971   | 10290  | 11886  | 13705  | 45852  |        |
| 1487 | ABT_227LH        | 4170   | 2429         | 1386   | 7984   | 7281   | 9924   | 12014  | 37202  |        |
| 1489 | WL232HQ          | 4542   | 3056         | 2008   | 9606   | 9128   | 10330  | 10773  | 39837  |        |
| 1490 | BARALFA          | 4903   | 3106         | 2113   | 10122  | 8943   | 10653  | 11671  | 41389  |        |
| 1491 | A9421            | 4631   | 2592         | 1634   | 8857   | 8619   | 11164  | 13133  | 41773  |        |
| 1492 | QS-75            | 3864   | 2327         | 1309   | 7500   | 7266   | 9854   | 12447  | 37068  |        |
| 1493 | TMF_421          | 4217   | 2673         | 1812   | 8702   | 7877   | 9898   | 11849  | 38325  |        |
| 9053 | CENTURION        | 4797   | 2803         | 1601   | 9201   | 8146   | 10409  | 13091  | 40847  |        |
| 900  | Mean             | 4691   | 2843         | 1810   | 9344   | 8964   | 10692  | 12241  | 41240  |        |
| 901  | CV               | 13.6   | 7.6          | 9.6    | 8.8    | 7.4    | 8.7    | 8.2    | 4.2    |        |
| 905  | MCV              | 23.5   | 13.0         | 16.5   | 15.1   | 12.7   | 14.9   | 14.1   | 7.2    |        |
| 902  | LSD              | 1100.6 | 370.2        | 298.8  | 1410.0 | 1135.3 | 1594.7 | 1721.1 | 2971.5 |        |
| 906  | LSR              | 58.3   | 29.7         | 30.0   | 34.7   | 24.0   | 31.6   | 58.7   | 22.3   |        |
| 907  | Pr>F(Trts)       | 0.3268 | 0.0008       | 0.0004 | 0.0093 | 0.0000 | 0.0089 | 0.2512 | 0.0000 |        |
| 908  | R square         | 57.5   | 82.7         | 84.0   | 74.4   | 88.3   | 75.4   | 57.4   | 88.6   |        |

RCBD arrangement, 2 blocks {23}

Ontario  
Elora  
Alfalfa Persistence Trial  
Seeded 1999

| Cultivar     | Code | 2003 Yield kg/ha |        |        |        |
|--------------|------|------------------|--------|--------|--------|
|              |      | Cut1             | Cut2   | Cut3   | Total  |
| SARANAC      | 1001 | 5488             | 3014   | 1456   | 10064  |
| ARROW        | 1074 | 5210             | 3278   | 1979   | 10471  |
| EXCEL        | 1238 | 4715             | 3187   | 1649   | 9605   |
| GH777        | 1244 | 4774             | 3298   | 1964   | 9929   |
| AMERIGRAZE40 | 1392 | 5728             | 3386   | 1997   | 11128  |
| ZG9346       | 1409 | 4911             | 3187   | 1790   | 10013  |
| GENEVA       | 1474 | 4973             | 4043   | 2342   | 11211  |
| TMF_421      | 1493 | 5333             | 3171   | 1883   | 10418  |
| 53Q60        | 1494 | 4700             | 3770   | 2063   | 10605  |
| DK124        | 1497 | 4730             | 4090   | 2417   | 11055  |
| DK134        | 1498 | 5245             | 3786   | 2314   | 11610  |
| A9401        | 1501 | 5410             | 3131   | 1769   | 10469  |
| ROCKET       | 1502 | 5018             | 3761   | 1927   | 10553  |
| A9624        | 1503 | 4980             | 4038   | 2280   | 10934  |
| PICKSD2065MF | 1504 | 5399             | 3841   | 2377   | 11555  |
| DS101        | 1521 | 5536             | 3677   | 2026   | 11395  |
| FORECAST_300 | 1522 | 5155             | 3809   | 2177   | 11301  |
| DS9833       | 1523 | 6023             | 3664   | 2212   | 11938  |
| DS9705       | 1524 | 5159             | 3720   | 2253   | 11319  |
| FORECAST_100 | 1525 | 4814             | 3826   | 2249   | 10574  |
| CENTURION    | 9053 | 5627             | 2787   | 1549   | 9875   |
| Mean         |      | 5175             | 3572   | 2045   | 10793  |
| CV(%)        |      | 7.9              | 6.7    | 7.7    | 4.1    |
| Pr>F(Trts)   |      | 0.2583           | 0.0027 | 0.0010 | 0.0054 |
| R2           |      | 0.81             | 0.85   | 0.88   | 0.85   |

Systematic control, covariate analysis

Ontario  
New Liskeard  
Alfalfa Persistence Trial  
Seeded 1999

| 2003 Yield kg/ha |      |        |        |        |
|------------------|------|--------|--------|--------|
| Cultivar         | Code | Cut1   | Cut2   | Total  |
| SARANAC          | 1001 | 5983   | 3176   | 8723   |
| ARROW            | 1074 | 7232   | 3995   | 11270  |
| EXCEL            | 1238 | 7769   | 2891   | 10895  |
| GH777            | 1244 | 7665   | 3155   | 10892  |
| AMERIGRAZE40     | 1392 | 7325   | 3589   | 10479  |
| ZG9346           | 1409 | 7085   | 3423   | 10496  |
| GENEVA           | 1474 | 8174   | 3530   | 11814  |
| TMF_421          | 1493 | 7775   | 3082   | 11108  |
| 53Q60            | 1494 | 7013   | 3432   | 10749  |
| DK124            | 1497 | 6572   | 3526   | 9954   |
| DK134            | 1498 | 7610   | 3637   | 11112  |
| A9401            | 1501 | 7434   | 3251   | 10708  |
| ROCKET           | 1502 | 7564   | 3582   | 11190  |
| A9624            | 1503 | 7373   | 3095   | 10239  |
| PICKSD2065MF     | 1504 | 8828   | 3585   | 12252  |
| DS101            | 1521 | 8850   | 3736   | 12987  |
| FORECAST_300     | 1522 | 8141   | 3721   | 11746  |
| DS9833           | 1523 | 7725   | 3384   | 11168  |
| DS9705           | 1524 | 8297   | 3557   | 11779  |
| FORECAST_100     | 1525 | 7911   | 3773   | 11828  |
| CENTURION        | 9053 | 7241   | 3419   | 10815  |
| Mean             |      | 7616   | 3441   | 11058  |
| CV(%)            |      | 16.7   | 7.5    | 13.9   |
| Pr>F(Trts)       |      | 0.9035 | 0.1349 | 0.8232 |
| R2               |      | 0.492  | 0.79   | 0.52   |

Systematic control, covariate analysis

Ontario  
Elora  
Alfalfa Persistence Trial  
Seeded 2000

| 2003 Yield kg/ha |      |        |        |        |        |
|------------------|------|--------|--------|--------|--------|
| Cultivar         | Code | Cut1   | Cut2   | Cut3   | Total  |
| SARANAC          | 1001 | 4335   | 3911   | 2459   | 10911  |
| ARROW            | 1074 | 4643   | 3664   | 2300   | 10915  |
| 5312             | 1298 | 5237   | 3792   | 2523   | 11657  |
| MAGNUM_IV        | 1325 | 4145   | 4524   | 2658   | 11316  |
| GRAZEMASTER      | 1402 | 5638   | 4274   | 2710   | 12636  |
| 54V54            | 1419 | 5188   | 4627   | 2657   | 12310  |
| VALUEPLUS1       | 1529 | 3796   | 4327   | 3017   | 11154  |
| 3R58             | 1530 | 5079   | 4313   | 2740   | 11932  |
| INTRIGUE         | 1531 | 4594   | 4295   | 2400   | 11269  |
| TRAILBLAZER3     | 1533 | 5364   | 4089   | 2461   | 11817  |
| A9502            | 1534 | 4762   | 3955   | 2535   | 11320  |
| RELIANCE         | 1535 | 5726   | 5175   | 2958   | 13655  |
| X787             | 1536 | 4765   | 4501   | 2922   | 12028  |
| X688             | 1537 | 4575   | 4752   | 2810   | 12217  |
| DS025            | 1538 | 4273   | 3763   | 2205   | 10561  |
| DS026            | 1539 | 4199   | 4801   | 2815   | 11938  |
| 5301ML           | 1540 | 4931   | 3550   | 2533   | 11187  |
| TMF_MULT_III     | 1541 | 4647   | 4743   | 2734   | 11750  |
| DS9810           | 1542 | 4814   | 4812   | 2748   | 12238  |
| ONEIDA_ULTRA     | 1543 | 4523   | 4597   | 2763   | 12017  |
| CW73038          | 1544 | 5575   | 4327   | 2424   | 12032  |
| CENTURION        | 9053 | 5183   | 3995   | 2698   | 11988  |
| Mean             |      | 4818   | 4308   | 2639   | 11766  |
| CV(%)            |      | 8.4    | 8.2    | 4.5    | 4.9    |
| Pr>F(Trts)       |      | 0.0108 | 0.0126 | 0.0001 | 0.0379 |
| R2               |      | 0.78   | 0.80   | 0.90   | 0.82   |

Systematic control, covariate analysis

Ontario  
New Liskeard  
Alfalfa Persistence Trial  
Seeded 2000

| 2003 Yield kg/ha |      |        |        |        |
|------------------|------|--------|--------|--------|
| Cultivar         | Code | Cut1   | Cut2   | Total  |
| SARANAC          | 1001 | 8303   | 3285   | 11552  |
| ARROW            | 1074 | 6095   | 3146   | 9018   |
| 5312             | 1298 | 7654   | 3633   | 11549  |
| MAGNUM_IV        | 1325 | 7278   | 3659   | 11043  |
| GRAZEMASTER      | 1402 | 7422   | 3489   | 10828  |
| 54V54            | 1419 | 7664   | 3547   | 11210  |
| VALUEPLUS1       | 1529 | 7132   | 3340   | 10370  |
| 3R58             | 1530 | 6711   | 3286   | 9853   |
| INTRIGUE         | 1531 | 7288   | 3540   | 10577  |
| TRAILBLAZER3     | 1533 | 7678   | 3388   | 11096  |
| A9502            | 1534 | 6433   | 3070   | 9484   |
| RELIANCE         | 1535 | 8893   | 3556   | 12644  |
| X787             | 1536 | 6340   | 3397   | 9620   |
| X688             | 1537 | 8404   | 3484   | 11993  |
| DS025            | 1538 | 7673   | 3102   | 10944  |
| DS026            | 1539 | 7353   | 3667   | 11202  |
| 5301ML           | 1540 | 6932   | 3162   | 10024  |
| TMF_MULT_III     | 1541 | 8118   | 3457   | 11740  |
| DS9810           | 1542 | 7023   | 3212   | 10005  |
| ONEIDA_ULTRA     | 1543 | 7646   | 3483   | 11250  |
| CW73038          | 1544 | 7649   | 3459   | 11127  |
| CENTURION        | 9053 | 7276   | 3445   | 10641  |
| Mean             |      | 7408   | 3400   | 10808  |
| CV(%)            |      | 8.2    | 5.8    | 6.8    |
| Pr>F(Trts)       |      | 0.0330 | 0.2420 | 0.0362 |
| R2               |      | 0.74   | 0.86   | 0.77   |

Systematic control, covariate analysis

ONTARIO  
 Elora  
 Red Clover Performance Trial  
 Expt. 2795  
 Seeded 2001

| Code | Cultivar   | 2003 (kg/ha) |        | Tot03  | Tot02  | 2yrTot |
|------|------------|--------------|--------|--------|--------|--------|
|      |            | Cut 1        | Cut 2  |        |        |        |
| 4036 | ATLAS      | 4714         | 3578   | 8291   | 8190   | 16481  |
| 4055 | WALTER     | 5073         | 3807   | 8880   | 8435   | 17315  |
| 4057 | RAM        | 4912         | 3812   | 8724   | 8802   | 17526  |
| 4059 | CONCORDE   | 4242         | 3795   | 8036   | 8551   | 16587  |
| 4066 | LASER      | 4774         | 3931   | 8704   | 8339   | 17043  |
| 4073 | BELLE      | 5084         | 3871   | 8955   | 9144   | 18099  |
| 4074 | PRIMA      | 4892         | 3861   | 8753   | 8644   | 17397  |
| 4079 | AC_ENDURE  | 4670         | 3035   | 7705   | 7769   | 15475  |
| 900  | Mean       | 4795         | 3711   | 8506   | 8484   | 16990  |
| 901  | CV         | 4.8          | 6.5    | 4.2    | 6.6    | 4.4    |
| 905  | MCV        | 9.0          | 12.3   | 8.0    | 12.5   | 8.3    |
| 902  | LSD        | 432.6        | 458.0  | 682.0  | 1062.9 | 1418.1 |
| 906  | LSR        | 51.3         | 51.1   | 54.6   | 77.3   | 54.0   |
| 907  | Pr>F(Trts) | 0.0980       | 0.0904 | 0.0805 | 0.4614 | 0.1468 |
| 908  | R_square   | 73.8         | 76.3   | 76.5   | 51.9   | 70.0   |

RCBD arrangement, 2 blocks {23}



ONTARIO  
 New Lisheard  
 Red Clover Variety Test 2  
 Expt. 200101  
 Seeded 2001

| Code | Cultivar    | 2003 (kg/ha) |        |        | Tot02  | 2yrTot |
|------|-------------|--------------|--------|--------|--------|--------|
|      |             | Cut 1        | Cut 2  | Tot03  |        |        |
| 4036 | ATLAS       | 4516         | 3905   | 8421   | 10372  | 18793  |
| 4055 | WALTER      | 4930         | 3668   | 8598   | 11152  | 19751  |
| 4057 | RAM         | 4462         | 3633   | 8095   | 12396  | 20491  |
| 4059 | CONCORDE    | 4585         | 4005   | 8590   | 10597  | 19187  |
| 4066 | LASER       | 5385         | 3857   | 9242   | 11443  | 20685  |
| 4073 | BELLE       | 5064         | 3314   | 8378   | 11865  | 20243  |
| 4074 | PRIMA       | 4537         | 3851   | 8388   | 11231  | 19619  |
| 4079 | AC_ENDURE   | 4345         | 3354   | 7699   | 10280  | 17979  |
| 4080 | TEMPUS      | 5044         | 3684   | 8727   | 12569  | 21297  |
| 4081 | RC8702      | 4547         | 3866   | 8414   | 11370  | 19784  |
| 4082 | AC_CHRISTIE | 5083         | 3684   | 8767   | 11744  | 20511  |
| 4083 | REDLANGRAZE | 5264         | 3769   | 9033   | 11406  | 20439  |
| 4084 | VIVI        | 6414         | 2575   | 8989   | 11516  | 20505  |
| 4085 | PAR9097     | 4435         | 3385   | 7820   | 10724  | 18544  |
| 900  | Mean        | 4901         | 3611   | 8512   | 11333  | 19845  |
| 901  | CV          | 7.0          | 10.7   | 6.4    | 6.1    | 4.1    |
| 905  | MCV         | 9.8          | 14.9   | 8.9    | 8.6    | 5.7    |
| 902  | LSD         | 481.1        | 539.4  | 759.4  | 969.8  | 1124.7 |
| 906  | LSR         | 23.3         | 37.7   | 49.2   | 42.4   | 33.9   |
| 907  | Pr>F(Trts)  | 0.0000       | 0.0157 | 0.0701 | 0.0096 | 0.0012 |
| 908  | R_square    | 83.9         | 95.3   | 88.0   | 63.9   | 87.1   |

RCBD arrangement, 3 blocks {234}

ONTARIO  
 Elora  
 Trefoil & Timothy Trefoil  
 Expt. 2797  
 Seeded 2001

| Code | Cultivar   | 2003 (kg/ha) |        | Tot03  | Tot02  | 2yrTot |
|------|------------|--------------|--------|--------|--------|--------|
|      |            | Cut 1        | Cut 2  |        |        |        |
| 7001 | LEO        | 3979         | 1024   | 4908   | 6884   | 12025  |
| 7003 | EMPIRE     | 4067         | 1203   | 5261   | 6993   | 12166  |
| 7031 | OAC_BRIGHT | 3968         | 1091   | 5024   | 6599   | 11875  |
| 7034 | BULL       | 3984         | 1293   | 5276   | 7147   | 12592  |
| 7038 | WELLINGTON | 4276         | 1140   | 5462   | 7302   | 12295  |
| 7039 | EXACT      | 4700         | 1223   | 5878   | 6850   | 12794  |
| 7043 | PARDEE     | 4171         | 1169   | 5480   | 6350   | 11665  |
| 900  | Mean       | 4164         | 1163   | 5327   | 6875   | 12202  |
| 901  | CV         | 10.1         | 12.5   | 9.6    | 7.9    | 6.7    |
| 905  | MCV        | 12.5         | 15.4   | 11.8   | 9.8    | 8.3    |
| 902  | LSD        | 518.4        | 179.4  | 630.6  | 674.5  | 1015.3 |
| 906  | LSR        | 70.9         | 66.7   | 65.0   | 70.8   | 90.0   |
| 907  | Pr>F(Trts) | 0.2359       | 0.2433 | 0.2759 | 0.2963 | 0.5154 |
| 908  | R_square   | 83.1         | 50.9   | 79.1   | 75.6   | 81.4   |

RCBD arrangement, 4 blocks {1234}  
 Nearest-neighbour covariance adjusted.

ONTARIO  
 New Liskeard  
 Trefoil 2001  
 Expt. 200106  
 Seeded 2001

| Code | Cultivar    | 2003 (kg/ha) |        |        |        |        |
|------|-------------|--------------|--------|--------|--------|--------|
|      |             | Cut 1        | Cut 2  | Tot03  | Tot02  | 2yrTot |
| 7001 | LEO         | 8125         | 2517   | 10643  | 10893  | 21536  |
| 7003 | EMPIRE      | 8285         | 3087   | 11372  | 11266  | 22638  |
| 7031 | OAC_BRIGHT  | 8617         | 3051   | 11667  | 10171  | 21838  |
| 7034 | BULL        | 8965         | 3883   | 12848  | 10495  | 23344  |
| 7038 | WELLINGTON  | 8472         | 3479   | 11951  | 10816  | 22767  |
| 7039 | EXACT       | 8528         | 3402   | 11929  | 10804  | 22734  |
| 7041 | AC_LANGILLE | 9448         | 3078   | 12525  | 10120  | 22645  |
| 7042 | ROSEAU      | 9634         | 3274   | 12908  | 10862  | 23770  |
| 7043 | PARDEE      | 7998         | 3860   | 11858  | 9424   | 21282  |
| 900  | Mean        | 8675         | 3292   | 11967  | 10539  | 22506  |
| 901  | CV          | 9.2          | 13.5   | 7.1    | 6.8    | 4.3    |
| 905  | MCV         | 11.1         | 16.3   | 8.6    | 8.2    | 5.3    |
| 902  | LSD         | 965.8        | 536.9  | 1027.1 | 869.1  | 1181.9 |
| 906  | LSR         | 59.0         | 39.3   | 45.4   | 47.2   | 47.5   |
| 907  | Pr>F(Trts)  | 0.0866       | 0.0059 | 0.0205 | 0.0474 | 0.0243 |
| 908  | R_square    | 46.3         | 62.0   | 56.1   | 50.1   | 52.8   |

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Elora  
 OFCC White Clover & Orchardgrass  
 Expt. 2805  
 Seeded 2002

| Code | Cultivar   | 2003 (kg/ha) |        |        |        | Tot03  |
|------|------------|--------------|--------|--------|--------|--------|
|      |            | Cut 1        | Cut 2  | Cut 3  | Cut 4  |        |
| 8014 | ALICE      | 3820         | 1151   | 1169   | 844    | 6970   |
| 8026 | CW9502     | 3884         | 935    | 1178   | 631    | 6628   |
| 8027 | CW9801     | 3932         | 1087   | 1148   | 593    | 6773   |
| 900  | Mean       | 3879         | 1058   | 1165   | 689    | 6790   |
| 901  | CV         | 2.2          | 20.9   | 5.9    | 23.5   | 4.9    |
| 905  | MCV        | 3.4          | 31.5   | 9.0    | 35.4   | 7.4    |
| 902  | LSD        | 130.2        | 333.3  | 104.4  | 243.8  | 505.1  |
| 906  | LSR        | 116.0        | 154.4  | 348.0  | 97.4   | 147.5  |
| 907  | Pr>F(Trts) | 0.3334       | 0.4666 | 0.8336 | 0.3614 | 0.4653 |
| 908  | R_square   | 98.0         | 78.6   | 95.9   | 76.0   | 91.8   |

RCBD arrangement, 4 blocks {1234}  
 Nearest-neighbour covariance adjusted.

ONTARIO  
 New Liskeard  
 White Clover Test 2002  
 Expt. 200201  
 Seeded 2002

| Code | Cultivar   | 2003 (kg/ha) |        |        |
|------|------------|--------------|--------|--------|
|      |            | Cut 1        | Cut 2  | Tot03  |
| 8014 | ALICE      | 2927         | 5136   | 8064   |
| 8026 | CW9502     | 2546         | 5118   | 7664   |
| 8027 | CW9801     | 2587         | 5201   | 7787   |
| 900  | Mean       | 2687         | 5152   | 7838   |
| 901  | CV         | 14.4         | 9.1    | 10.6   |
| 905  | MCV        | 19.9         | 12.5   | 14.6   |
| 902  | LSD        | 533.4        | 645.8  | 1142.0 |
| 906  | LSR        | 139.8        | 777.6  | 285.4  |
| 907  | Pr>F(Trts) | 0.3748       | 0.9552 | 0.7919 |
| 908  | R_square   | 40.3         | 35.4   | 32.4   |

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Kemptville  
 White clover Pakenham  
 Expt. 3177  
 Seeded 2002

| Code | Cultivar   | 2003 (kg/ha) |        |        | Tot03  |
|------|------------|--------------|--------|--------|--------|
|      |            | Cut 1        | Cut 2  | Cut 3  |        |
| 8014 | ALICE      | 4501         | 1878   | 1579   | 7959   |
| 8026 | CW9502     | 4378         | 2133   | 1330   | 7841   |
| 8027 | CW9801     | 4609         | 1854   | 1614   | 8077   |
| 900  | Mean       | 4496         | 1955   | 1508   | 7959   |
| 901  | CV         | 3.0          | 16.3   | 22.9   | 8.2    |
| 905  | MCV        | 4.1          | 22.4   | 31.5   | 11.3   |
| 902  | LSD        | 186.2        | 438.2  | 475.4  | 896.9  |
| 906  | LSR        | 80.5         | 157.1  | 167.6  | 380.1  |
| 907  | Pr>F(Trts) | 0.1299       | 0.4441 | 0.4950 | 0.8754 |
| 908  | R_square   | 77.2         | 41.0   | 39.3   | 19.3   |

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Elora  
 White Clover and Orchardgrass  
 Expt. 2796  
 Seeded 2001

| Code | Cultivar   | 2003 (kg/ha) |        |        |        | Tot03  | Tot02  | 2yrTot |
|------|------------|--------------|--------|--------|--------|--------|--------|--------|
|      |            | Cut 1        | Cut 2  | Cut 3  | Cut 4  |        |        |        |
| 8005 | SACRAMENTO | 15887        | 518    | 1365   | 649    | 18358  | 8177   | 26039  |
| 8007 | CAL_LADINO | 14531        | 631    | 1229   | 631    | 17070  | 6746   | 23717  |
| 8012 | OSCEOLA    | 15503        | 641    | 1416   | 700    | 18228  | 7339   | 25923  |
| 8013 | SHASTA     | 15323        | 658    | 1355   | 653    | 17993  | 8228   | 26196  |
| 8014 | ALICE      | 15652        | 572    | 1451   | 767    | 18452  | 7559   | 26371  |
| 8025 | BARBLANCA  | 16663        | 566    | 1373   | 605    | 19237  | 7200   | 26342  |
| 900  | Mean       | 15593        | 598    | 1365   | 667    | 18223  | 7541   | 25765  |
| 901  | CV         | 8.4          | 21.7   | 13.9   | 10.1   | 7.2    | 5.2    | 5.7    |
| 905  | MCV        | 10.5         | 27.1   | 17.4   | 12.6   | 9.0    | 6.5    | 7.1    |
| 902  | LSD        | 1641.0       | 162.2  | 237.5  | 84.3   | 1641.9 | 492.0  | 1827.7 |
| 906  | LSR        | 76.9         | 115.4  | 107.1  | 51.9   | 75.8   | 33.2   | 68.9   |
| 907  | Pr>F(Trts) | 0.4765       | 0.6685 | 0.6909 | 0.1818 | 0.4524 | 0.0025 | 0.1622 |
| 908  | R_square   | 89.1         | 55.9   | 79.3   | 91.2   | 91.4   | 93.5   | 93.8   |

RCBD arrangement, 4 blocks {1234}  
 Nearest-neighbour covariance adjusted.

ONTARIO  
 Elora  
 Bromegrass Reg A 2000  
 Expt. 2787  
 Seeded 2000

| Code                              | Cultivar   | 2003 (kg/ha) |        | Tot03  | Tot02  | Tot01  | 3yrTot |
|-----------------------------------|------------|--------------|--------|--------|--------|--------|--------|
|                                   |            | Cut 1        | Cut 2  |        |        |        |        |
| 2001                              | BAYLOR     | 4206         | 1949   | 6155   | 6823   | 7567   | 20545  |
| 2002                              | SARATOGA   | 4257         | 1756   | 6014   | 7057   | 9851   | 22921  |
| 2039                              | BRAVO      | 3739         | 1673   | 5412   | 7423   | 8040   | 20875  |
| 2051                              | RADISSON   | 3671         | 1611   | 5282   | 6484   | 7714   | 19480  |
| 2054                              | PADDOCK    | 5507         | 2588   | 8095   | 8803   | 9031   | 25929  |
| 2057                              | FLEET      | 4923         | 2133   | 7056   | 7599   | 8557   | 23212  |
| 2059                              | CAS-AZ_11  | 4096         | 985    | 5082   | 4914   | 6618   | 16613  |
| 2060                              | PEAK       | 4199         | 1736   | 5935   | 7403   | 9559   | 22896  |
| 2061                              | LOBF_9201  | 3349         | 1382   | 4731   | 5522   | 7310   | 17563  |
| 2062                              | BOSIR      | 2225         | 2305   | 4530   | 5802   | 8256   | 18588  |
| 2063                              | HAKARI     | 2872         | 2572   | 5445   | 7123   | 8694   | 21263  |
| 900                               | Mean       | 3913         | 1881   | 5794   | 6814   | 8291   | 20899  |
| 901                               | CV         | 17.0         | 13.5   | 13.4   | 11.2   | 7.0    | 8.2    |
| 905                               | MCV        | 20.4         | 16.2   | 16.1   | 13.5   | 8.3    | 9.8    |
| 902                               | LSD        | 798.5        | 304.3  | 932.8  | 919.0  | 692.1  | 2047.2 |
| 906                               | LSR        | 24.3         | 19.0   | 26.2   | 23.6   | 21.4   | 22.0   |
| 907                               | Pr>F(Trts) | 0.0000       | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 908                               | R_square   | 73.2         | 85.4   | 74.3   | 75.1   | 82.3   | 80.4   |
| RCBD arrangement, 4 blocks {1234} |            |              |        |        |        |        |        |



ONTARIO  
 New Liskeard  
 Brome Test 2002  
 Expt. 200202  
 Seeded 2002

| Code | Cultivar   | 2003 (kg/ha) |        |        |
|------|------------|--------------|--------|--------|
|      |            | Cut 1        | Cut 2  | Tot03  |
| 2001 | BAYLOR     | 5108         | 3121   | 8228   |
| 2057 | FLEET      | 5417         | 3254   | 8672   |
| 2064 | MB-A       | 5336         | 3028   | 8364   |
| 2065 | AC_KNOWLES | 5607         | 2862   | 8469   |
| 900  | Mean       | 5367         | 3066   | 8433   |
| 901  | CV         | 17.8         | 8.1    | 12.0   |
| 905  | MCV        | 23.1         | 10.5   | 15.5   |
| 902  | LSD        | 1238.0       | 321.0  | 1307.9 |
| 906  | LSR        | 247.9        | 81.9   | 294.9  |
| 907  | Pr>F(Trts) | 0.9001       | 0.2222 | 0.9316 |
| 908  | R_square   | 20.2         | 85.2   | 46.0   |

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Thunder Bay  
 Meadow Bromegrass 2002  
 Expt. 200309  
 Seeded 2002

| Code | Cultivar   | 2003 (kg/ha) |        |        |
|------|------------|--------------|--------|--------|
|      |            | Cut 1        | Cut 2  | Tot03  |
| 2001 | BAYLOR     | 4582         | 3149   | 7731   |
| 2057 | FLEET      | 6950         | 3935   | 10885  |
| 2064 | MB_A       | 7368         | 3935   | 11303  |
| 2099 | AC_Knowles | 5771         | 3147   | 8919   |
| 900  | Mean       | 6168         | 3542   | 9709   |
| 901  | CV         | 14.4         | 15.4   | 12.5   |
| 905  | MCV        | 18.7         | 19.9   | 16.2   |
| 902  | LSD        | 1154.2       | 705.1  | 1575.0 |
| 906  | LSR        | 41.4         | 89.5   | 44.1   |
| 907  | Pr>F(Trts) | 0.0070       | 0.1012 | 0.0079 |
| 908  | R_square   | 74.6         | 58.5   | 75.1   |

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Elora  
 Bromegrass Reg D 2000  
 Expt. 2788  
 Seeded 2000

| Code | Cultivar   | 2003 (kg/ha) |        |        | Tot03  | Tot02  | Tot01  | 3yrTot |
|------|------------|--------------|--------|--------|--------|--------|--------|--------|
|      |            | Cut 1        | Cut 2  | Cut 3  |        |        |        |        |
| 2001 | BAYLOR     | 4783         | 675    | 658    | 6117   | 6565   | 7135   | 19818  |
| 2002 | SARATOGA   | 5484         | 732    | 750    | 6965   | 7400   | 8076   | 22442  |
| 2039 | BRAVO      | 4669         | 707    | 798    | 6174   | 6884   | 7621   | 20679  |
| 2051 | RADISSON   | 5089         | 656    | 868    | 6612   | 7465   | 7608   | 21686  |
| 2054 | PADDOCK    | 5689         | 880    | 1266   | 7836   | 9329   | 8173   | 25337  |
| 2057 | FLEET      | 5989         | 842    | 1594   | 8426   | 9238   | 8662   | 26326  |
| 2059 | CAS-AZ_11  | 4954         | 702    | 875    | 6531   | 5446   | 6303   | 18280  |
| 2060 | PEAK       | 5735         | 754    | 811    | 7301   | 7842   | 9117   | 24260  |
| 2061 | LOBF_9201  | 4333         | 773    | 832    | 5938   | 6450   | 6715   | 19103  |
| 2062 | BOSIR      | 2837         | 756    | 811    | 4403   | 5675   | 7903   | 17982  |
| 2063 | HAKARI     | 3801         | 627    | 1400   | 5828   | 6357   | 8259   | 20443  |
| 900  | Mean       | 4851         | 737    | 969    | 6557   | 7150   | 7779   | 21487  |
| 901  | CV         | 9.2          | 14.0   | 21.6   | 8.6    | 8.5    | 9.2    | 6.8    |
| 905  | MCV        | 11.1         | 16.8   | 25.9   | 10.4   | 10.2   | 11.0   | 8.2    |
| 902  | LSD        | 538.5        | 124.1  | 251.4  | 679.7  | 727.3  | 859.5  | 1752.1 |
| 906  | LSR        | 17.1         | 48.9   | 26.9   | 16.9   | 18.7   | 30.5   | 21.0   |
| 907  | Pr>F(Trts) | 0.0000       | 0.0486 | 0.0000 | 0.0000 | 0.0000 | 0.0002 | 0.0000 |
| 908  | R_square   | 86.8         | 55.8   | 74.2   | 84.7   | 85.8   | 64.4   | 84.0   |

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Thunder Bay  
 Bromegrass D  
 Expt. 200304  
 Seeded 2000

| Code | Cultivar   | 2003 (kg/ha) |        | Tot03  |
|------|------------|--------------|--------|--------|
|      |            | Cut 1        | Cut 2  |        |
| 2001 | BAYLOR     | 2858         | 2577   | 5435   |
| 2002 | SARATOGA   | 2698         | 2582   | 5280   |
| 2039 | BRAVO      | 2523         | 2139   | 4662   |
| 2051 | RADISSON   | 2661         | 2392   | 5053   |
| 2054 | PADDOCK    | 2244         | 3247   | 5491   |
| 2057 | FLEET      | 2325         | 3008   | 5333   |
| 2059 | CAS-AZ_11  | 1834         | 2192   | 4026   |
| 2060 | PEAK       | 3048         | 2948   | 5996   |
| 2061 | LOBF_9201  | 2348         | 2303   | 4652   |
| 2062 | BOSIR      | 1256         | 1290   | 2546   |
| 2063 | HAKARI     | 1256         | 1290   | 2546   |
| 900  | Mean       | 2277         | 2361   | 4638   |
| 901  | CV         | 17.8         | 21.0   | 13.3   |
| 905  | MCV        | 21.3         | 25.2   | 16.0   |
| 902  | LSD        | 485.4        | 595.3  | 742.4  |
| 906  | LSR        | 27.1         | 30.4   | 21.5   |
| 907  | Pr>F(Trts) | 0.0000       | 0.0000 | 0.0000 |
| 908  | R_square   | 75.0         | 74.1   | 83.2   |

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Elora  
 Orchardgrass Performance Trial  
 Expt. 2803  
 Seeded 2001

| Code | Cultivar   | 2003 (kg/ha) |        |        | Tot03  | Tot02  | 2yrTot |
|------|------------|--------------|--------|--------|--------|--------|--------|
|      |            | Cut 1        | Cut 2  | Cut 3  |        |        |        |
| 3003 | KAY        | 4298         | 1056   | 1012   | 6366   | 7463   | 13829  |
| 3105 | BARIDANA   | 4262         | 1015   | 1257   | 6534   | 8157   | 14690  |
| 3106 | INTENSIV   | 4055         | 1221   | 1441   | 6717   | 8220   | 14937  |
| 3107 | OG2000VLA  | 3796         | 1045   | 1007   | 5849   | 7204   | 13053  |
| 900  | Mean       | 4103         | 1084   | 1179   | 6366   | 7761   | 14127  |
| 901  | CV         | 7.0          | 7.8    | 9.8    | 5.5    | 8.2    | 5.3    |
| 905  | MCV        | 9.1          | 10.1   | 12.7   | 7.1    | 10.6   | 6.9    |
| 902  | LSD        | 374.3        | 109.9  | 149.8  | 452.8  | 823.2  | 974.8  |
| 906  | LSR        | 74.6         | 53.3   | 34.5   | 52.1   | 81.1   | 51.7   |
| 907  | Pr>F(Trts) | 0.1202       | 0.0290 | 0.0014 | 0.0329 | 0.1223 | 0.0234 |
| 908  | R_square   | 73.9         | 67.9   | 84.3   | 72.9   | 58.7   | 68.7   |

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 New Liskeard  
 Orchardgrass 2001  
 Expt. 200109  
 Seeded 2001

| Code | Cultivar   | 2003 (kg/ha) |        | Tot03  | Tot02  | 2yrTot |
|------|------------|--------------|--------|--------|--------|--------|
|      |            | Cut 1        | Cut 2  |        |        |        |
| 3079 | OKAY       | 4803         | 2657   | 7461   | 11689  | 19150  |
| 3105 | BARIDANA   | 3756         | 2702   | 6459   | 11177  | 17635  |
| 3106 | INTENSIV   | 4249         | 2804   | 7053   | 11068  | 18121  |
| 900  | Mean       | 4269         | 2721   | 6991   | 11311  | 18302  |
| 901  | CV         | 14.0         | 9.5    | 9.3    | 8.8    | 7.9    |
| 905  | MCV        | 19.2         | 13.0   | 12.8   | 12.1   | 10.9   |
| 902  | LSD        | 821.6        | 353.7  | 895.4  | 1364.8 | 1992.1 |
| 906  | LSR        | 78.5         | 240.6  | 89.3   | 219.8  | 131.5  |
| 907  | Pr>F(Trts) | 0.1203       | 0.7253 | 0.1717 | 0.6631 | 0.3825 |
| 908  | R_square   | 59.9         | 53.6   | 61.3   | 29.8   | 41.8   |

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Kemptville  
 Kemptville Orchardgrass  
 Expt. 3175  
 Seeded 2001

| Code | Cultivar   | 2003 (kg/ha) |        | Tot02  | 2yrTot |
|------|------------|--------------|--------|--------|--------|
|      |            | Cut 1        | Tot03  |        |        |
| 3003 | KAY        | 6392         | 6392   | 10386  | 16778  |
| 3105 | BARIDANA   | 5191         | 5191   | 9057   | 14248  |
| 3106 | INTENSIV   | 6238         | 6238   | 10745  | 16984  |
| 900  | Mean       | 5940         | 5940   | 10063  | 16003  |
| 901  | CV         | 5.9          | 5.9    | 7.9    | 5.0    |
| 905  | MCV        | 5.2          | 5.2    | 7.0    | 4.4    |
| 902  | LSD        | 306.8        | 306.8  | 702.1  | 702.6  |
| 906  | LSR        | 25.5         | 25.5   | 41.6   | 25.7   |
| 907  | Pr>F(Trts) | 0.0000       | 0.0000 | 0.0021 | 0.0000 |
| 908  | R_square   | 82.9         | 82.9   | 69.4   | 82.8   |

RCBD arrangement, 8 blocks {12345678}

ONTARIO  
 Elora  
 Early Orchardgrass 2000  
 Expt. 2790  
 Seeded 2000

| Code | Cultivar   | 2003 (kg/ha) |        |        | Tot03  | Tot02  | Tot01  | 3yrTot |
|------|------------|--------------|--------|--------|--------|--------|--------|--------|
|      |            | Cut 1        | Cut 2  | Cut 3  |        |        |        |        |
| 3001 | JUNO       | 4950         | 1179   | 1492   | 7621   | 7903   | 8242   | 23767  |
| 3009 | NAPIER     | 3976         | 1232   | 1634   | 6843   | 8096   | 9351   | 24290  |
| 3066 | RAPIDO     | 4891         | 1616   | 1681   | 8188   | 9506   | 11194  | 28888  |
| 3072 | DS7        | 3991         | 1338   | 1642   | 6971   | 7601   | 8600   | 23172  |
| 3075 | BENCHMARK  | 4196         | 1375   | 1840   | 7411   | 9090   | 9772   | 26273  |
| 3094 | OG9201     | 4715         | 1588   | 1971   | 8273   | 9654   | 9774   | 27701  |
| 3104 | HAKA       | 4222         | 1241   | 1526   | 6990   | 7995   | 9213   | 24197  |
| 900  | Mean       | 4420         | 1367   | 1684   | 7471   | 8549   | 9449   | 25470  |
| 901  | CV         | 10.9         | 7.7    | 8.7    | 8.9    | 6.0    | 5.5    | 4.8    |
| 905  | MCV        | 21.2         | 15.0   | 16.8   | 17.4   | 11.7   | 10.7   | 9.3    |
| 902  | LSD        | 936.3        | 205.4  | 283.7  | 1296.5 | 1003.0 | 1015.1 | 2359.5 |
| 906  | LSR        | 96.1         | 47.0   | 59.3   | 90.6   | 48.9   | 34.4   | 41.3   |
| 907  | Pr>F(Trts) | 0.3112       | 0.0307 | 0.1263 | 0.3055 | 0.0318 | 0.0189 | 0.0207 |
| 908  | R_square   | 61.2         | 85.1   | 75.3   | 61.3   | 84.2   | 87.3   | 86.7   |

RCBD arrangement, 2 blocks {23}



ONTARIO  
 Elora  
 Reed Canarygrass 2000  
 Expt. 2785  
 Seeded 2000

| Code | Cultivar   | 2003 (kg/ha) |        | Tot03  | Tot02  | Tot01  | 3yrTot |
|------|------------|--------------|--------|--------|--------|--------|--------|
|      |            | Cut 1        | Cut 2  |        |        |        |        |
| 5011 | VANTAGE    | 4307         | 3055   | 7362   | 7989   | 9344   | 24695  |
| 5013 | PALATON    | 5343         | 3090   | 8433   | 8454   | 9277   | 26164  |
| 5016 | VENTURE    | 4512         | 2494   | 7006   | 7600   | 8917   | 23523  |
| 5027 | CHIEFTON   | 5420         | 3070   | 8490   | 7645   | 9163   | 25297  |
| 900  | Mean       | 4896         | 2927   | 7823   | 7922   | 9175   | 24920  |
| 901  | CV         | 3.8          | 6.4    | 2.1    | 3.2    | 5.9    | 2.8    |
| 905  | MCV        | 9.0          | 15.0   | 4.9    | 7.5    | 13.9   | 6.6    |
| 902  | LSD        | 438.2        | 438.3  | 383.4  | 590.3  | 1272.2 | 1651.8 |
| 906  | LSR        | 39.3         | 73.6   | 25.8   | 69.1   | 297.7  | 62.6   |
| 907  | Pr>F(Trts) | 0.0237       | 0.1164 | 0.0098 | 0.1125 | 0.8621 | 0.1115 |
| 908  | R_square   | 96.4         | 84.1   | 98.3   | 88.3   | 20.6   | 88.3   |

RCBD arrangement, 2 blocks {23}

ONTARIO  
 Elora  
 Tall Fescue Trial  
 Expt. 2799  
 Seeded 2001

| Code | Cultivar   | 2003 (kg/ha) |        | Tot03  | Tot02  | 2yrTot |
|------|------------|--------------|--------|--------|--------|--------|
|      |            | Cut 1        | Cut 2  |        |        |        |
| 5029 | CAS-EA30   | 5054         | 2199   | 7252   | 6752   | 14005  |
| 5030 | BAROLEX    | 3869         | 2662   | 6531   | 6810   | 13341  |
| 5523 | COURTENAY  | 4742         | 3187   | 7929   | 7752   | 15681  |
| 900  | Mean       | 4555         | 2683   | 7238   | 7105   | 14342  |
| 901  | CV         | 7.0          | 8.0    | 4.6    | 4.4    | 3.1    |
| 905  | MCV        | 9.6          | 11.0   | 6.3    | 6.1    | 4.2    |
| 902  | LSD        | 435.3        | 294.2  | 459.2  | 434.3  | 602.9  |
| 906  | LSR        | 36.7         | 29.8   | 32.8   | 43.5   | 25.8   |
| 907  | Pr>F(Trts) | 0.0052       | 0.0023 | 0.0036 | 0.0077 | 0.0010 |
| 908  | R_square   | 85.3         | 88.2   | 87.6   | 91.6   | 92.2   |

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 New Liskeard  
 Tall Fescue 2001  
 Expt. 200102  
 Seeded 2001

| Code | Cultivar   | 2003 (kg/ha) |        | Tot03  | Tot02  | 2yrTot |
|------|------------|--------------|--------|--------|--------|--------|
|      |            | Cut 1        | Cut 2  |        |        |        |
| 5029 | CAS-EA30   | 3150         | 4325   | 7475   | 11224  | 18700  |
| 5030 | BAROLEX    | 2554         | 4661   | 7215   | 9290   | 16505  |
| 5523 | COURTENAY  | 2645         | 5192   | 7836   | 12465  | 20301  |
| 900  | Mean       | 2783         | 4726   | 7509   | 10993  | 18502  |
| 901  | CV         | 14.7         | 16.2   | 13.3   | 10.1   | 9.5    |
| 905  | MCV        | 20.2         | 22.3   | 18.3   | 13.9   | 13.0   |
| 902  | LSD        | 561.4        | 1053.2 | 1372.4 | 1522.7 | 2404.5 |
| 906  | LSR        | 94.2         | 121.5  | 220.9  | 48.0   | 63.3   |
| 907  | Pr>F(Trts) | 0.1644       | 0.3405 | 0.6956 | 0.0191 | 0.0582 |
| 908  | R_square   | 55.8         | 41.2   | 18.6   | 77.7   | 67.5   |

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Elora  
 Tall Fescue 2000  
 Expt. 2786  
 Seeded 2000

| Code | Cultivar   | 2003 (kg/ha) |        | Tot03  | Tot02  | Tot01  | 3yrTot |
|------|------------|--------------|--------|--------|--------|--------|--------|
|      |            | Cut 1        | Cut 2  |        |        |        |        |
| 5026 | SELECT     | 5076         | 3439   | 8514   | 9615   | 10260  | 28389  |
| 5028 | CARNIVAL   | 4592         | 3483   | 8075   | 9445   | 10380  | 27900  |
| 5029 | CAS-EA30   | 4172         | 2652   | 6824   | 8971   | 9747   | 25541  |
| 5516 | PHYTER     | 4772         | 3548   | 8320   | 9928   | 10642  | 28890  |
| 5523 | COURTENAY  | 4210         | 3647   | 7858   | 8956   | 10039  | 26853  |
| 5526 | KOKANEE    | 3964         | 3967   | 7931   | 8240   | 10120  | 26291  |
| 5527 | MONTEBELLO | 4110         | 3428   | 7539   | 9401   | 10397  | 27337  |
| 900  | Mean       | 4414         | 3452   | 7866   | 9222   | 10226  | 27314  |
| 901  | CV         | 9.3          | 3.9    | 6.5    | 6.6    | 5.2    | 4.1    |
| 905  | MCV        | 18.1         | 7.6    | 12.6   | 12.8   | 10.1   | 8.1    |
| 902  | LSD        | 798.0        | 261.6  | 987.9  | 1179.4 | 1029.3 | 2199.9 |
| 906  | LSR        | 71.8         | 19.9   | 58.4   | 69.9   | 114.9  | 65.7   |
| 907  | Pr>F(Trts) | 0.2158       | 0.0020 | 0.1543 | 0.2767 | 0.7267 | 0.1823 |
| 908  | R_square   | 66.3         | 94.7   | 70.7   | 62.7   | 45.7   | 68.9   |

RCBD arrangement, 2 blocks {23}

ONTARIO  
 Elora  
 Early Timothy Trial  
 Expt. 2801  
 Seeded 2001

| Code | Cultivar   | 2003 (kg/ha) |        | Tot03  | Tot02  | 2yrTot |
|------|------------|--------------|--------|--------|--------|--------|
|      |            | Cut 1        | Cut 2  |        |        |        |
| 6030 | TORO       | 5212         | 2137   | 7350   | 9318   | 16668  |
| 6050 | RICHMOND   | 5352         | 1943   | 7295   | 8505   | 15800  |
| 6094 | BARLIZA    | 4339         | 1614   | 5953   | 8849   | 14802  |
| 900  | Mean       | 4968         | 1898   | 6866   | 8891   | 15757  |
| 901  | CV         | 10.7         | 8.5    | 9.1    | 4.6    | 4.6    |
| 905  | MCV        | 14.7         | 11.6   | 12.4   | 6.3    | 6.3    |
| 902  | LSD        | 730.1        | 221.0  | 854.6  | 556.3  | 989.2  |
| 906  | LSR        | 72.1         | 42.2   | 61.2   | 68.4   | 53.0   |
| 907  | Pr>F(Trts) | 0.0702       | 0.0109 | 0.0322 | 0.0764 | 0.0298 |
| 908  | R_square   | 75.9         | 85.8   | 74.9   | 60.5   | 72.9   |

RCBD arrangement, 4 blocks {1234}

ONTARIO  
 Elora  
 Timothy 2000 - Early  
 Expt. 2791  
 Seeded 2000

| Code | Cultivar   | 2003 (kg/ha) |        |        | Tot02  | Tot01  | 3yrTot |
|------|------------|--------------|--------|--------|--------|--------|--------|
|      |            | Cut 1        | Cut 2  | Tot03  |        |        |        |
| 6009 | BASHO      | 5039         | 3364   | 8402   | 10490  | 9505   | 28397  |
| 6030 | TORO       | 5276         | 2594   | 7870   | 8996   | 8861   | 25727  |
| 6040 | TIMFOR     | 4627         | 2892   | 7520   | 8871   | 8498   | 24889  |
| 6050 | RICHMOND   | 4953         | 2628   | 7581   | 8997   | 9541   | 26119  |
| 6123 | COLT       | 5135         | 2811   | 7946   | 8496   | 9251   | 25693  |
| 6145 | NOV10      | 4353         | 1965   | 6318   | 8201   | 8143   | 22662  |
| 6146 | LOTI_9501  | 4333         | 2087   | 6420   | 7841   | 7882   | 22143  |
| 6147 | LOTI_9502  | 4571         | 2094   | 6666   | 7474   | 7589   | 21729  |
| 6148 | CLASSIC    | 4453         | 2331   | 6784   | 9283   | 8360   | 24427  |
| 6149 | GRINDSTAD  | 4968         | 2260   | 7228   | 9344   | 9311   | 25884  |
| 900  | Mean       | 4771         | 2503   | 7273   | 8799   | 8694   | 24767  |
| 901  | CV         | 11.6         | 13.8   | 11.0   | 7.2    | 4.7    | 5.1    |
| 905  | MCV        | 21.2         | 25.3   | 20.2   | 13.1   | 8.6    | 9.3    |
| 902  | LSD        | 1011.1       | 633.0  | 1469.9 | 1154.6 | 746.8  | 2312.6 |
| 906  | LSR        | 107.2        | 45.3   | 70.5   | 38.3   | 38.3   | 34.7   |
| 907  | Pr>F(Trts) | 0.6457       | 0.0485 | 0.2611 | 0.0329 | 0.0075 | 0.0102 |
| 908  | R_square   | 44.0         | 78.2   | 62.5   | 78.7   | 85.6   | 84.5   |

RCBD arrangement, 2 blocks {23}

ONTARIO  
 Elora  
 Late Timothy Trial  
 Expt. 2800  
 Seeded 2001

| Code                              | Cultivar    | 2003 (kg/ha) |        | Tot03  | Tot02  | 2yrTot |
|-----------------------------------|-------------|--------------|--------|--------|--------|--------|
|                                   |             | Cut 1        | Cut 2  |        |        |        |
| 6002                              | CLIMAX      | 8763         | 852    | 9615   | 8698   | 18313  |
| 6026                              | ITASCA      | 8884         | 781    | 9665   | 8777   | 18443  |
| 6086                              | ALEXANDER   | 8140         | 876    | 9017   | 9339   | 18356  |
| 6116                              | SAGUENAY    | 7634         | 732    | 8366   | 9426   | 17792  |
| 6138                              | AURORA      | 8886         | 816    | 9702   | 9554   | 19257  |
| 6154                              | SF8904      | 8138         | 735    | 8872   | 8530   | 17402  |
| 6155                              | AC_ANTOINE  | 8488         | 921    | 9409   | 9339   | 18748  |
| 900                               | Mean        | 8419         | 816    | 9235   | 9095   | 18330  |
| 901                               | CV          | 8.4          | 15.6   | 7.8    | 5.3    | 5.3    |
| 905                               | MCV         | 10.3         | 19.1   | 9.5    | 6.5    | 6.5    |
| 902                               | LSD         | 865.1        | 156.1  | 878.5  | 589.6  | 1194.5 |
| 906                               | LSR         | 69.1         | 82.6   | 65.7   | 57.5   | 64.4   |
| 907                               | Pr>F (Trts) | 0.1591       | 0.3209 | 0.1243 | 0.0354 | 0.2204 |
| 908                               | R_square    | 39.9         | 39.3   | 43.6   | 72.7   | 56.2   |
| RCBD arrangement, 4 blocks {1234} |             |              |        |        |        |        |

ONTARIO  
 New Liskeard  
 Late Timothy 2001  
 Expt. 200108  
 Seeded 2001

| Code | Cultivar   | 2003 (kg/ha) |        | Tot03  | Tot02  | 2yrTot |
|------|------------|--------------|--------|--------|--------|--------|
|      |            | Cut 1        | Cut 2  |        |        |        |
| 6002 | CLIMAX     | 8179         | 1957   | 10136  | 9949   | 20085  |
| 6026 | ITASCA     | 7981         | 2237   | 10218  | 9493   | 19710  |
| 6030 | TORO       | 7410         | 2594   | 10004  | 10403  | 20407  |
| 6050 | RICHMOND   | 7383         | 2323   | 9706   | 10015  | 19721  |
| 6086 | ALEXANDER  | 8513         | 1948   | 10461  | 9406   | 19867  |
| 6094 | BARLIZA    | 7287         | 2032   | 9319   | 10893  | 20212  |
| 6116 | SAGUENAY   | 7961         | 1843   | 9804   | 7916   | 17721  |
| 6138 | AURORA     | 8816         | 1771   | 10587  | 10281  | 20868  |
| 6154 | SF8904     | 8518         | 1528   | 10046  | 10523  | 20569  |
| 900  | Mean       | 8005         | 2026   | 10031  | 9876   | 19907  |
| 901  | CV         | 7.2          | 17.1   | 6.0    | 10.2   | 6.4    |
| 905  | MCV        | 8.8          | 20.6   | 7.2    | 12.4   | 7.7    |
| 902  | LSD        | 701.5        | 418.2  | 722.1  | 1220.8 | 1542.6 |
| 906  | LSR        | 45.9         | 39.3   | 57.0   | 41.0   | 49.0   |
| 907  | Pr>F(Trts) | 0.0064       | 0.0096 | 0.1518 | 0.0173 | 0.0862 |
| 908  | R_square   | 60.8         | 63.5   | 52.2   | 51.8   | 42.2   |

RCBD arrangement, 4 blocks {1234}



ONTARIO  
 Thunder Bay  
 Late Timothy 2001  
 Expt. 200303  
 Seeded 2001

| Code                              | Cultivar   | 2003 (kg/ha) |        |
|-----------------------------------|------------|--------------|--------|
|                                   |            | Cut 1        | Tot03  |
| 6002                              | CLIMAX     | 3879         | 3879   |
| 6026                              | ITASCA     | 3999         | 3999   |
| 6154                              | SF8904     | 4142         | 4142   |
| 900                               | Mean       | 4006         | 4006   |
| 901                               | CV         | 6.0          | 6.0    |
| 905                               | MCV        | 8.3          | 8.3    |
| 902                               | LSD        | 331.2        | 331.2  |
| 906                               | LSR        | 125.9        | 125.9  |
| 907                               | Pr>F(Trts) | 0.3671       | 0.3671 |
| 908                               | R_square   | 40.4         | 40.4   |
| RCBD arrangement, 4 blocks {1234} |            |              |        |

ONTARIO  
 Elora  
 Timothy 2000 - Late  
 Expt. 2792  
 Seeded 2000

| Code | Cultivar   | 2003 (kg/ha) |        |        | Tot02  | Tot01  | 3yrTot |
|------|------------|--------------|--------|--------|--------|--------|--------|
|      |            | Cut 1        | Cut 2  | Tot03  |        |        |        |
| 6002 | CLIMAX     | 7513         | 2264   | 9776   | 10283  | 9738   | 29798  |
| 6026 | ITASCA     | 7025         | 2630   | 9655   | 10672  | 9764   | 30090  |
| 6066 | NORMAX     | 6722         | 2725   | 9447   | 10413  | 8798   | 28658  |
| 6081 | MARIPOSA   | 8459         | 1925   | 10384  | 10363  | 9069   | 29815  |
| 6086 | ALEXANDER  | 6919         | 2387   | 9306   | 10511  | 9593   | 29411  |
| 6095 | ARGUS      | 5768         | 1714   | 7482   | 9774   | 9321   | 26576  |
| 6097 | CAROLA     | 6479         | 2047   | 8526   | 9806   | 9708   | 28040  |
| 6102 | DYNASTY    | 6097         | 1689   | 7786   | 9782   | 9642   | 27210  |
| 6116 | SAGUENAY   | 7193         | 2055   | 9248   | 10452  | 10572  | 30272  |
| 6150 | BOR_94301  | 6941         | 1739   | 8681   | 8620   | 9092   | 26393  |
| 6151 | SF8903     | 7362         | 1907   | 9269   | 9938   | 10976  | 30183  |
| 6154 | SF8904     | 7481         | 2115   | 9596   | 10211  | 9520   | 29327  |
| 900  | Mean       | 6997         | 2100   | 9096   | 10069  | 9649   | 28814  |
| 901  | CV         | 12.0         | 17.8   | 10.6   | 7.7    | 5.7    | 4.8    |
| 905  | MCV        | 21.5         | 31.9   | 19.0   | 13.8   | 10.3   | 8.6    |
| 902  | LSD        | 1502.4       | 669.4  | 1726.9 | 1391.2 | 992.6  | 2488.0 |
| 906  | LSR        | 55.8         | 64.7   | 59.5   | 67.8   | 45.6   | 64.1   |
| 907  | Pr>F(Trts) | 0.2832       | 0.1950 | 0.2494 | 0.4938 | 0.0753 | 0.1153 |
| 908  | R_square   | 59.3         | 63.2   | 60.9   | 50.3   | 71.9   | 68.8   |

RCBD arrangement, 2 blocks {23}