

Table 34b  
2003 Performance of Rzm Tolerant Varieties - ACSC Coded Test  
All Locations\*

| Description @                    | Code | Rec/T lbs. | Rec/A lbs. | Loss Mol % | Rev/T \$ ++ | Rev/T % Mear | Rev/A \$ ++ | Rev/A % Mear | Sugar % | Yield T/A | Na ppm | K ppm | AmN ppm | Vigor+ Rating | Emerg. % | Bolter % |
|----------------------------------|------|------------|------------|------------|-------------|--------------|-------------|--------------|---------|-----------|--------|-------|---------|---------------|----------|----------|
| Beta 4811R(Aph & Rzm)            | 531  | 315.3      | 6038       | 1.21       | 39.01       | 98           | 748         | 102          | 16.98   | 19.13     | 325    | 1823  | 335     |               | 68.3     | 0.00     |
| Beta 4818R(Aph & Rzm)            | 509  | 323.7      | 5907       | 1.18       | 40.94       | 103          | 750         | 102          | 17.36   | 18.16     | 354    | 1785  | 308     |               | 64.7     | 0.00     |
| Beta BX1196(Rzm)                 | 523  | 319.4      | 5712       | 1.10       | 39.94       | 100          | 718         | 98           | 17.07   | 17.77     | 257    | 1663  | 317     |               | 76.8     | 0.00     |
| Beta BX1197(4797R Rzm)           | 517  | 325.3      | 6115       | 1.21       | 41.31       | 104          | 778         | 106          | 17.48   | 18.74     | 306    | 1844  | 338     |               | 68.0     | 0.01     |
| Beta BX1198(4898R Rzm)           | 546  | 321.2      | 6031       | 1.21       | 40.36       | 101          | 759         | 103          | 17.27   | 18.74     | 298    | 1839  | 339     |               | 76.9     | 0.00     |
| Beta BX1301(Rhc & Rzm)           | 501  | 300.9      | 6751       | 1.37       | 35.70       | 90           | 803         | 109          | 16.42   | 22.37     | 318    | 1972  | 421     |               | 76.3     | 0.00     |
| Beta BX1303(Rzm)                 | 534  | 318.4      | 6031       | 1.29       | 39.72       | 100          | 753         | 103          | 17.20   | 18.91     | 273    | 1931  | 385     |               | 64.8     | 0.03     |
| Beta BX1304(Rzm)                 | 522  | 327.7      | 6347       | 1.24       | 41.86       | 105          | 813         | 111          | 17.62   | 19.30     | 324    | 1890  | 338     |               | 61.8     | 0.01     |
| Beta BX1305(Rzm)                 | 549  | 314.5      | 6868       | 1.30       | 38.82       | 97           | 849         | 116          | 17.02   | 21.80     | 291    | 1837  | 409     |               | 70.4     | 0.00     |
| Beta BX1306(Rzm)                 | 518  | 301.8      | 6355       | 1.30       | 35.90       | 90           | 757         | 103          | 16.39   | 21.01     | 320    | 1928  | 377     |               | 71.4     | 0.00     |
| Beta BX1307(Rzm)                 | 521  | 300.3      | 6028       | 1.42       | 35.56       | 89           | 715         | 98           | 16.43   | 20.03     | 365    | 1915  | 454     |               | 73.2     | 0.00     |
| Beta BX1308(Rzm)                 | 537  | 324.0      | 5604       | 1.23       | 41.00       | 103          | 709         | 97           | 17.43   | 17.32     | 349    | 1824  | 341     |               | 68.7     | 0.04     |
| Beta BX1309(Rzm)                 | 507  | 306.9      | 6447       | 1.31       | 37.07       | 93           | 778         | 106          | 16.66   | 21.02     | 520    | 1814  | 345     |               | 78.1     | 0.00     |
| Beta BX1310(Rzm)                 | 542  | 316.2      | 5904       | 1.29       | 39.21       | 98           | 733         | 100          | 17.10   | 18.64     | 295    | 1922  | 384     |               | 74.0     | 0.00     |
| Crystal R207                     | 533  | 324.1      | 5514       | 1.39       | 41.02       | 103          | 701         | 95           | 17.59   | 16.96     | 319    | 1870  | 460     |               | 76.0     | 0.00     |
| Crystal R826(Rzm)                | 510  | 326.1      | 5507       | 1.21       | 41.49       | 104          | 704         | 96           | 17.51   | 16.80     | 376    | 1803  | 319     |               | 82.9     | 0.00     |
| Crystal RX301                    | 541  | 310.7      | 6005       | 1.26       | 37.95       | 95           | 737         | 100          | 16.80   | 19.23     | 407    | 1798  | 351     |               | 70.1     | 0.01     |
| Crystal RX302                    | 530  | 308.6      | 6177       | 1.20       | 37.46       | 94           | 750         | 102          | 16.63   | 20.00     | 361    | 1765  | 330     |               | 70.4     | 0.00     |
| Crystal RX303                    | 508  | 312.8      | 5599       | 1.26       | 38.42       | 96           | 691         | 94           | 16.90   | 17.81     | 268    | 1893  | 380     |               | 70.7     | 0.01     |
| Crystal RX304                    | 550  | 312.2      | 6005       | 1.31       | 38.29       | 96           | 740         | 101          | 16.92   | 19.13     | 322    | 1906  | 392     |               | 64.3     | 0.01     |
| Crystal RX305                    | 519  | 323.9      | 5915       | 1.24       | 40.98       | 103          | 751         | 102          | 17.43   | 18.17     | 263    | 1862  | 369     |               | 69.2     | 0.01     |
| Crystal RX306                    | 511  | 321.4      | 6269       | 1.24       | 40.42       | 101          | 791         | 108          | 17.31   | 19.43     | 356    | 1811  | 351     |               | 65.5     | 0.01     |
| Crystal RX307                    | 547  | 324.0      | 5916       | 1.24       | 41.01       | 103          | 753         | 103          | 17.44   | 18.14     | 380    | 1782  | 351     |               | 65.8     | 0.00     |
| Crystal RX308                    | 532  | 325.7      | 6175       | 1.20       | 41.39       | 104          | 791         | 108          | 17.48   | 18.80     | 308    | 1816  | 332     |               | 69.2     | 0.00     |
| Hilleshog 2411Rz                 | 506  | 331.1      | 5799       | 1.23       | 42.64       | 107          | 748         | 102          | 17.78   | 17.48     | 328    | 1737  | 368     |               | 71.1     | 0.00     |
| Hilleshog 2433Rz                 | 528  | 327.3      | 5349       | 1.22       | 41.78       | 105          | 683         | 93           | 17.59   | 16.33     | 318    | 1766  | 360     |               | 72.2     | 0.00     |
| Hilleshog 2463Rz(7163 Aph)       | 515  | 323.0      | 5885       | 1.21       | 40.77       | 102          | 744         | 101          | 17.35   | 18.18     | 373    | 1780  | 325     |               | 71.9     | 0.00     |
| Hilleshog 2467(7167 Rz)          | 536  | 332.5      | 6270       | 1.22       | 42.97       | 108          | 812         | 111          | 17.85   | 18.85     | 329    | 1790  | 351     |               | 82.0     | 0.00     |
| Hilleshog 2468(7168 Rz)          | 520  | 329.0      | 5260       | 1.31       | 42.15       | 106          | 675         | 92           | 17.76   | 15.95     | 359    | 1904  | 375     |               | 74.7     | 0.00     |
| Hilleshog 2469(7169 Rz Aph)      | 539  | 314.9      | 6071       | 1.23       | 38.92       | 98           | 752         | 102          | 16.98   | 19.24     | 390    | 1861  | 317     |               | 76.1     | 0.00     |
| Hilleshog 2480(7180 Rz)          | 527  | 323.7      | 6137       | 1.19       | 40.95       | 103          | 778         | 106          | 17.38   | 18.90     | 328    | 1624  | 371     |               | 76.7     | 0.00     |
| Hilleshog 7172Rz                 | 503  | 322.0      | 5796       | 1.19       | 40.56       | 102          | 732         | 100          | 17.29   | 17.94     | 340    | 1780  | 322     |               | 76.6     | 0.00     |
| Hilleshog 7193Rz                 | 545  | 316.8      | 6030       | 1.21       | 39.35       | 99           | 750         | 102          | 17.05   | 19.01     | 448    | 1621  | 343     |               | 75.9     | 0.00     |
| Hilleshog 7194Rz                 | 514  | 316.4      | 6133       | 1.28       | 39.27       | 98           | 764         | 104          | 17.11   | 19.29     | 389    | 1873  | 356     |               | 76.1     | 0.00     |
| Hilleshog 7196Rz(Aph)            | 543  | 320.3      | 6402       | 1.23       | 40.15       | 101          | 803         | 109          | 17.25   | 19.98     | 364    | 1724  | 365     |               | 75.5     | 0.00     |
| Hilleshog 7197Rz                 | 535  | 311.5      | 6484       | 1.21       | 38.13       | 96           | 796         | 108          | 16.78   | 20.77     | 393    | 1834  | 309     |               | 79.8     | 0.00     |
| Hilleshog 7202Rz(Aph)            | 512  | 317.9      | 6201       | 1.32       | 39.60       | 99           | 769         | 105          | 17.22   | 19.63     | 419    | 1842  | 382     |               | 76.7     | 0.00     |
| Hilleshog 7203Rz(Aph)            | 538  | 323.9      | 5599       | 1.34       | 40.99       | 103          | 710         | 97           | 17.53   | 17.24     | 335    | 1943  | 397     |               | 78.1     | 0.00     |
| Holly 03HX317                    | 525  | 325.3      | 6657       | 1.09       | 41.31       | 104          | 847         | 115          | 17.35   | 20.43     | 251    | 1665  | 311     |               | 84.6     | 0.01     |
| Holly 03HX331                    | 540  | 306.7      | 4973       | 1.18       | 37.04       | 93           | 607         | 83           | 16.52   | 16.03     | 353    | 1847  | 296     |               | 80.9     | 0.00     |
| Holly 03HX364                    | 529  | 330.3      | 5705       | 1.07       | 42.45       | 106          | 734         | 100          | 17.59   | 17.23     | 248    | 1707  | 290     |               | 71.2     | 0.00     |
| Seedex SX0822(Aph & Rzm)         | 504  | 330.8      | 5578       | 1.05       | 42.57       | 107          | 719         | 98           | 17.59   | 16.82     | 233    | 1705  | 277     |               | 61.3     | 0.00     |
| Seedex SX0828(Aph & Rzm)         | 548  | 323.3      | 5309       | 1.16       | 40.85       | 102          | 675         | 92           | 17.32   | 16.31     | 255    | 1808  | 322     |               | 76.3     | 0.00     |
| Seedex SX0831(Aph & Rzm)         | 513  | 334.6      | 5919       | 1.08       | 43.44       | 109          | 771         | 105          | 17.81   | 17.63     | 261    | 1646  | 302     |               | 68.9     | 0.00     |
| Van der Have H46177(Aph & Rzm)   | 551  | 329.4      | 5847       | 1.16       | 42.25       | 106          | 752         | 102          | 17.63   | 17.69     | 255    | 1824  | 321     |               | 68.1     | 0.00     |
| Van der Have H46519(Rzm)         | 524  | 314.9      | 6966       | 1.22       | 38.93       | 98           | 863         | 118          | 16.97   | 22.05     | 280    | 1767  | 372     |               | 80.0     | 0.00     |
| Van der Have H46522(Aph&Rzm&Rhc) | 505  | 314.8      | 5925       | 1.20       | 38.89       | 98           | 737         | 100          | 16.94   | 18.67     | 235    | 1726  | 387     |               | 65.2     | 0.00     |
| Van der Have H47150(Rzm)         | 544  | 319.8      | 6168       | 1.16       | 40.05       | 100          | 774         | 106          | 17.15   | 19.22     | 243    | 1758  | 345     |               | 67.4     | 0.00     |
| Van der Have H47151(Rzm&Aph)     | 516  | 333.9      | 5841       | 1.05       | 43.28       | 109          | 761         | 104          | 17.74   | 17.38     | 205    | 1701  | 283     |               | 58.3     | 0.00     |
| Van der Have H66726(Rzm)         | 526  | 321.0      | 5409       | 1.11       | 40.33       | 101          | 684         | 93           | 17.16   | 16.72     | 313    | 1716  | 290     |               | 78.0     | 0.00     |
| Van der Have H66733(Rzm & Aph)   | 502  | 331.6      | 5701       | 1.04       | 42.75       | 107          | 739         | 101          | 17.62   | 17.06     | 226    | 1674  | 282     |               | 68.0     | 0.06     |
| Filler#10                        | 552  | 300.8      | 4783       | 1.34       | 35.67       | 89           | 570         | 78           | 16.38   | 15.84     | 321    | 2041  | 381     |               | 79.7     | 0.00     |
| Susc 3N - Mod Aph                | 553  | 320.1      | 5096       | 1.22       | 40.11       | 101          | 645         | 88           | 17.22   | 15.72     | 391    | 1824  | 317     |               | 71.4     | 0.00     |
| Very Susc 2N - Aph Tol           | 554  | 299.0      | 3606       | 1.12       | 35.26       | 88           | 437         | 60           | 16.06   | 11.70     | 362    | 1777  | 261     |               | 82.7     | 0.00     |
| Susc 3N - Aph Tol                | 555  | 315.8      | 5344       | 1.14       | 39.11       | 98           | 668         | 91           | 16.93   | 16.73     | 354    | 1718  | 299     |               | 77.8     | 0.00     |
| Susc 2N - Mod Aph                | 556  | 301.7      | 4240       | 1.22       | 35.88       | 90           | 517         | 70           | 16.30   | 13.69     | 417    | 1730  | 333     |               | 79.6     | 0.00     |
| Check Mean                       |      | 319.1      | 5852       | 1.22       | 39.88       |              | 734         |              | 17.17   | 18.27     | 326    | 1804  | 345     |               | 72.9     | 0.00     |
| Coeff. of Var. (%)               |      | 2.9        | 7          | 6.77       | 5.37        |              | 8           |              | 2.46    | 7.47      | 20     | 5     | 12      |               | 12.9     | 973.73   |
| F Value                          |      | 9.3        | 10         | 19.74      | 9.27        |              | 8           |              | 8.47    | 12.90     | 12     | 18    | 15      |               | 8.5      | 1.99     |
| Mean LSD (0.05)                  |      | 8.4        | 521        | 0.05       | 1.94        |              | 74          |              | 0.41    | 1.49      | 48     | 60    | 30      |               | 5.7      | 0.02     |
| Mean LSD (0.01)                  |      | 11.1       | 687        | 0.07       | 2.56        |              | 97          |              | 0.54    | 1.97      | 64     | 79    | 39      |               | 7.6      |          |

\* 2003 Data from Averill, Felton, Glyndon, Crookston, Gentilly.

+ Vigor not collected.

@ Some varieties not approved for sale. Refer to approval list for approval status.

++ Revenue estimates are based on a \$40.09 beet payment at 17.5 % sugar and 1.5 % loss to molasses.

Created 11-06-03.