## I. 1996 Fincastle Grid Sample Data

| 1996 Fincastle Site (FL1625) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Position Data** | | **Moisture** | | **Soil Characteristics** | | | **Petiole Nutrient Contents** | | | | | | | | |
| Site | Easting (m) | Northing (m) | Irrigation + Precipitation (mm) | Consumptive Use (mm) | Clay (%) | | pH | $NO_3$-N (%) | | | P (%) | | | Ca (%) | | |
| Info✤ | | | DR | | | | | $DT^1$ | $DT^2$ | $DT^3$ | $DT^1$ | $DT^2$ | $DT^3$ | $DT^1$ | $DT^2$ | $DT^3$ |
| Depth (cm) | | | | (0-50) | (0-60) | (60-90) | (0-90) | | | | | | | | | |
| 1 | 434777.637 | 5527480.426 | 298 | 350 | 11 | 14 | 7.4 | 0.96 | 0.20 | 0.18 | 0.48 | 0.16 | 0.11 | 1.36 | 1.49 | 1.78 |
| 2 | 434781.031 | 5527683.803 | 321 | 352 | 13 | 18 | 7.6 | 0.08 | 0.03 | 0.06 | 0.54 | 0.34 | 0.18 | 0.87 | 1.08 | 1.55 |
| 3 | 434783.654 | 5527839.738 | 328 | 379 | 17.5 | 25 | 7.7 | 0.53 | 0.25 | 0.00 | 0.53 | 0.31 | 0.11 | 1.03 | 1.10 | 1.21 |
| 4 | 434786.785 | 5528039.644 | 306 | 379 | 23 | 23 | 8.2 | 1.29 | 0.34 | 0.01 | 0.27 | 0.12 | 0.06 | 1.43 | 1.22 | 1.27 |
| 5 | 434973.944 | 5528031.152 | 295 | 333 | 23 | 28 | 7.7 | 1.48 | 0.38 | 0.12 | 0.56 | 0.22 | 0.12 | 1.16 | 1.02 | 1.21 |
| 6 | 434971.236 | 5527835.103 | 307 | 389 | 12.5 | 19 | 7.4 | 1.15 | 0.59 | 0.14 | 0.51 | 0.23 | 0.13 | 1.23 | 1.59 | 1.59 |
| 7 | 434969.571 | 5527672.749 | 289 | 344 | 11 | 17 | 7.3 | 0.98 | 0.31 | 0.07 | 0.49 | 0.15 | 0.13 | 1.34 | 1.71 | 1.73 |
| 8 | 434965.784 | 5527471.701 | 315 | 379 | 9 | 10 | 7.3 | 0.90 | 0.01 | 0.02 | 0.52 | 0.22 | 0.18 | 1.09 | 1.22 | 1.49 |
| **Means** | | | **307** | **363** | **15** | **19** | **7.6** | **0.92** | **0.26** | **0.08** | **0.49** | **0.22** | **0.13** | **1.19** | **1.30** | **1.48** |

**✤ Additional Information, as follows.**

DR – June 28 – August 16, 1996

$DT^1$ – July 4, 1996
$DT^2$ – July 30, 1996
$DT^3$ – August 20, 1996

## II. 1996 Hays Grid Sample Data

| 1996 Hays Site (Snowden) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Position Data | | Moisture | | Soil Characteristics | | | Petiole Nutrient Contents | | | | | | | | |
| Site | Easting (m) | Northing (m) | Irrigation + Precip. (mm) | Consumptive Use (mm) | Clay (%) | | PH | $NO_3$-N (%) | | | P (%) | | | Ca (%) | | |
| Info✤ | | | DR | | | | | DT[1] | DT[2] | DT[3] | DT[1] | DT[2] | DT[3] | DT[1] | DT[2] | DT[3] |
| Depth (cm) | | | | (0-100) | (0-60) | (60-90) | (0-30) | | | | | | | | | |
| 1 | 438902.045 | 5537073.788 | 359 | 356 | 12 | 35 | 5.6 | | 1.19 | 0.34 | 0.38 | 0.19 | 0.07 | 0.9 | 1.0 | 1.2 |
| 2 | 438902.672 | 5537123.641 | 384 | 392 | 10 | 9 | 6.6 | 2.00 | 0.59 | 0.06 | 0.41 | 0.17 | 0.07 | 0.9 | 1.1 | 1.8 |
| 3 | 438903.484 | 5537181.997 | 321 | 331 | 8 | 7 | 6.6 | 2.09 | 0.37 | 0.05 | 0.44 | 0.18 | 0.06 | 0.9 | 1.2 | 2.0 |
| 4 | 438904.003 | 5537237.907 | 398 | 384 | 10 | 21 | 6.2 | 2.38 | 1.47 | 0.35 | 0.46 | 0.23 | 0.07 | 1.0 | 1.1 | 1.4 |
| 5 | 438904.662 | 5537293.805 | 391 | 383 | 17 | 23 | 6.5 | 2.32 | 1.75 | 0.71 | 0.42 | 0.22 | 0.07 | 0.8 | 0.9 | 1.4 |
| 6 | 438905.223 | 5537351.503 | 371 | 375 | 11 | 10 | 7.2 | 2.48 | 1.56 | 0.43 | 0.50 | 0.21 | 0.07 | 0.8 | 0.9 | 1.5 |
| 7 | 438906.604 | 5537417.929 | 372 | 383 | 10 | 17 | 6.3 | 1.86 | 0.95 | 0.33 | 0.44 | 0.13 | 0.07 | 1.0 | 1.2 | 1.7 |
| 8 | 438907.019 | 5537506.409 | 390 | 406 | 9 | 7 | 7.1 | 1.48 | 0.71 | 0.08 | 0.44 | 0.10 | 0.07 | 1.0 | 1.4 | 1.7 |
| 9 | 438907.631 | 5537568.681 | 423 | 446 | 10 | 9 | 6.4 | 1.55 | 0.67 | 0.14 | 0.39 | 0.11 | 0.07 | 0.9 | 1.3 | 1.7 |
| 10 | 438908.385 | 5537626.645 | 401 | 390 | 9 | 9 | 6.3 | 1.59 | 0.66 | 0.12 | 0.44 | 0.12 | 0.07 | 1.0 | 1.3 | 1.6 |
| 11 | 438908.782 | 5537679.863 | 390 | 398 | 11 | 17 | 6.6 | 1.96 | 1.04 | 0.40 | 0.43 | 0.12 | 0.08 | 1.0 | 1.2 | 1.5 |
| 12 | 438909.163 | 5537733.54 | 373 | 386 | 36 | 48 | 7.5 | 2.35 | 1.25 | | 0.30 | 0.16 | | 1.1 | 1.1 | |
| 13 | 438909.557 | 5537789.555 | 331 | 373 | 20 | 26 | 7.6 | 2.07 | 1.08 | 0.32 | 0.25 | 0.13 | 0.06 | 1.1 | 1.5 | 1.8 |
| 14 | 438986.812 | 5537755.953 | 342 | 352 | 44 | 47 | 7.8 | 2.13 | 1.24 | 0.84 | 0.35 | 0.14 | 0.07 | 1.0 | 1.3 | 1.8 |
| 15 | 438986.256 | 5537697.291 | 358 | 383 | 14 | 31 | 7.2 | 2.02 | 0.88 | 0.38 | 0.48 | 0.16 | 0.08 | 1.0 | 1.2 | 1.5 |
| 16 | 438985.613 | 5537636.566 | 302 | 344 | 18 | 40 | 7.2 | 2.26 | 1.35 | 0.47 | 0.49 | 0.19 | 0.07 | 0.9 | 1.1 | 1.6 |
| 17 | 438984.958 | 5537568.789 | 366 | 363 | 9 | 7 | 7.2 | 1.70 | 0.97 | 0.37 | 0.50 | 0.16 | 0.08 | 0.8 | 1.1 | 1.7 |
| 18 | 438983.743 | 5537474.191 | 368 | 354 | 11 | 14 | 7.1 | 1.76 | 0.69 | 0.16 | 0.47 | 0.12 | 0.08 | 0.7 | 1.1 | 1.5 |
| 19 | 438982.247 | 5537346.354 | 365 | 374 | 14 | 26 | 7.1 | 2.07 | 0.00 | 0.41 | 0.50 | 0.00 | 0.08 | 0.9 | 0.0 | 1.5 |
| 20 | 438981.503 | 5537250.395 | 354 | 381 | 9 | 8 | 7.3 | 2.02 | 0.64 | 0.35 | 0.49 | 0.19 | 0.07 | 0.9 | 1.1 | 1.5 |
| 21 | 438980.989 | 5537187.362 | 358 | 363 | 9 | 7 | 7.8 | 1.53 | 0.23 | 0.03 | 0.34 | 0.13 | 0.07 | 0.9 | 1.2 | 1.6 |
| 22 | 438980.163 | 5537128.009 | 370 | 384 | 8 | 6 | 8 | 1.62 | 0.49 | 0.19 | 0.35 | 0.13 | 0.06 | 0.9 | 1.0 | 1.6 |
| 23 | 438979.531 | 5537070.395 | 334 | 355 | 10 | 13 | 6.2 | 1.80 | 1.30 | 0.40 | 0.39 | 0.20 | 0.07 | 1.0 | 0.8 | 1.5 |
| 24 | 439058.761 | 5537122.957 | 348 | 387 | 9 | 8 | 6.1 | 2.01 | 0.75 | 0.27 | 0.38 | 0.11 | 0.06 | 0.9 | 1.2 | 1.7 |
| 25 | 439059.473 | 5537193.538 | 373 | 376 | 7 | 11 | 5.9 | 2.33 | 0.75 | 0.11 | 0.45 | 0.15 | 0.07 | 1.2 | 1.4 | 1.7 |
| 26 | 439060.845 | 5537292.797 | 399 | 404 | 13 | 38 | 5.9 | 2.08 | 0.84 | 0.29 | 0.44 | 0.13 | 0.06 | 0.9 | 1.3 | 1.7 |
| 27 | 439061.772 | 5537447.533 | 393 | 402 | 16 | 29 | 6.7 | 2.16 | 1.19 | 0.71 | 0.48 | 0.14 | 0.08 | 1.0 | 1.0 | 1.5 |
| 28 | 439063.901 | 5537597.375 | 353 | 379 | 8 | 23 | 7 | 2.09 | 1.24 | 0.30 | 0.41 | 0.12 | 0.07 | 0.9 | 1.3 | 1.6 |
| 29 | 439065.186 | 5537668.442 | 373 | 415 | 7 | 6 | 6.9 | 2.09 | 0.84 | 0.22 | 0.41 | 0.10 | 0.08 | 1.0 | 1.2 | 1.7 |
| 30 | 439066.187 | 5537731.877 | 330 | 362 | 8 | 7 | 6.4 | 2.34 | 1.51 | 0.29 | 0.49 | 0.15 | 0.07 | 1.0 | 1.3 | 1.7 |
| 31 | 439123.012 | 5537670.624 | 382 | 400 | 5 | 25 | 6.7 | 1.82 | 0.70 | 0.10 | 0.45 | 0.12 | 0.07 | 1.0 | 1.2 | 1.6 |
| 32 | 439121.895 | 5537594.491 | 378 | 410 | 7 | 10 | 6.5 | 1.92 | 0.69 | 0.17 | 0.42 | 0.09 | 0.07 | 1.0 | 1.3 | 1.5 |
| 33 | 439119.689 | 5537422.167 | 344 | 410 | 19 | 34 | 6.4 | 2.20 | 1.07 | 0.52 | 0.43 | 0.10 | 0.07 | 0.9 | 1.2 | 1.7 |
| 34 | 439117.792 | 5537256.015 | 382 | 438 | 15 | 34 | 6.6 | 1.92 | 0.89 | 0.31 | 0.46 | 0.13 | 0.07 | 0.9 | 1.2 | 1.6 |
| 35 | 439117.272 | 5537156.568 | 335 | 353 | 12 | 16 | 6.8 | 2.06 | 1.19 | 0.38 | 0.39 | 0.12 | 0.06 | 0.8 | 1.1 | 1.7 |
| 36 | 439169.852 | 5537252.858 | 350 | 378 | 12 | 29 | 6.3 | 2.31 | 1.02 | 0.48 | 0.38 | 0.10 | 0.06 | 0.8 | 1.4 | 1.6 |
| 37 | 439171.477 | 5537400.514 | 378 | 395 | 29 | 30 | 7.6 | 2.09 | 0.99 | 0.53 | 0.31 | 0.17 | 0.07 | 1.0 | 1.1 | 1.5 |
| 38 | 439174.2 | 5537609.394 | 336 | 373 | 9 | 10 | 6.8 | 2.32 | 1.30 | 0.45 | 0.45 | 0.11 | 0.06 | 1.0 | 1.4 | 1.9 |
| 39 | 439218.719 | 5537469.349 | 357 | 385 | 16 | 50 | 6.1 | 2.21 | 1.23 | 0.75 | 0.35 | 0.12 | 0.07 | 1.0 | 1.2 | 1.5 |
| 40 | 439218.169 | 5537376.241 | 351 | 391 | 13 | 48 | 6.7 | 2.42 | 1.04 | 0.70 | 0.42 | 0.14 | 0.07 | 1.0 | 1.2 | 1.5 |
| **Means** | | | **365** | **383** | **13** | **21** | **6.8** | **2.04** | **0.96** | **0.35** | **0.42** | **0.14** | **0.07** | **0.9** | **1.2** | **1.6** |

**✤ Additional Information, as follows.**
DR – June 17 – September 09, 1996
DT[1] – July 3, 1996
DT[2] – July 30, 1996
DT[3] – August 20, 1996

# III. 1997 Fincastle Grid Sample Data

| 1997 Fincastle Site (Russet Burbank) | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Position Data | | Moisture | | Soil Characteristics | | | | | | | Petiole Nutrient Contents | | | | | | | | | Hand-Sampled Tuber Data | | | | |
| Site | Easting (m) | Northing (m) | Irrigation + Precipitation (mm) | Consumptive Use (mm) | Clay (%) | | $CaCO_3$ (%) | $NO_3$-N (ppm) | | $PO_4$-P (ppm) | K (ppm) | $NO_3$-N (%) | | | P (%) | | | K (%) | | | Total Yield (t/ha) | Medium Tuber Yield (t/ha) | Mean Tuber Weight (g) | Specific Gravity | Chipping Score |
| Info✤ | | | DR | | | | | | | Kel | Kel | DT[1] | DT[2] | DT[3] | DT[1] | DT[2] | DT[3] | DT[1] | DT[2] | DT[3] | | | | | |
| Depth (cm) | | | | (0-100) | (0-60) | (60-90) | (0-30) | (0-60) | (60-90) | (0-15) | (0-30) | | | | | | | | | | | | | | |
| B1 | 430474.374 | 5523475.42 | 388 | 457.8 | 10 | | | 3.5 | | | 164.0 | 1.00 | 0.90 | 0.21 | 0.27 | 0.15 | 0.10 | | | | 47 | 40 | 153.9 | 1.084 | 6.5 |
| C1 | 430474.374 | 5523407.42 | 511 | 616.2 | 17 | | 1.85 | 4.9 | | | 330.5 | 0.87 | 0.41 | 0.06 | 0.26 | 0.18 | 0.08 | 6.3 | 7.7 | 6.6 | 32 | 28 | 122.2 | 1.080 | 6.0 |
| D1 | 430474.374 | 5523339.42 | 429 | 609 | 24 | | | 22.1 | | 99 | 250.0 | 1.43 | 1.73 | 0.98 | 0.29 | 0.25 | 0.15 | | | | 48 | 43 | 124.4 | 1.087 | 7.5 |
| E1 | 430474.374 | 5523271.42 | 346 | 467.5 | 9 | | | 3.3 | | | 144.0 | 0.70 | 0.53 | 0.26 | 0.37 | 0.31 | 0.19 | | | | 60 | 40 | 140.6 | 1.086 | 6.5 |
| F1 | 430474.374 | 5523203.42 | 421 | 530.2 | 10 | | | 7.7 | | | 167.0 | 0.89 | 0.93 | 1.69 | 0.55 | 0.46 | 0.29 | 6.2 | 7.7 | 6.9 | 66 | 57 | 194.8 | 1.089 | 7.5 |
| G1 | 430474.374 | 5523135.42 | 463 | 578.1 | 9 | | | 12.8 | | | 239.0 | 0.51 | 0.69 | 1.11 | 0.60 | 0.48 | 0.29 | | | | 57 | 50 | 127.7 | 1.086 | 6.0 |
| H1 | 430474.374 | 5523067.42 | 449 | 548.4 | 8 | | | 2.2 | | | 186.0 | 0.36 | 0.20 | 0.17 | 0.66 | 0.57 | 0.36 | | | | 58 | 36 | 109.7 | 1.087 | 6.5 |
| I1 | 430474.374 | 5522999.42 | 374 | 456 | 8 | | | 5.7 | | | 243.5 | 1.21 | 0.81 | 0.72 | 0.62 | 0.52 | 0.34 | 6.4 | 8.1 | 7.3 | 61 | 47 | 198.7 | 1.083 | 8.0 |
| J1 | 430474.374 | 5522931.42 | 372 | 432.5 | 9 | | | 16.8 | | 152 | 257.5 | 1.95 | 1.58 | 0.87 | 0.55 | 0.50 | 0.29 | | | | 49 | 30 | 157.1 | 1.077 | 7.5 |
| A2 | 430542.374 | 5523543.42 | 408 | 496.1 | 7 | 7 | | 2.9 | 2.6 | | 186.0 | 1.26 | 1.12 | 0.15 | 0.41 | 0.17 | 0.18 | | | | 57 | 35 | 221.3 | 1.086 | 7.5 |
| B2 | 430542.374 | 5523475.42 | 435 | 573.5 | 8 | | | 4.8 | | 101 | 290.0 | 0.69 | 0.45 | 0.30 | 0.57 | 0.45 | 0.30 | 6.4 | 7.6 | 6.5 | 66 | 46 | 144.3 | 1.088 | 7.5 |
| C2 | 430542.374 | 5523407.42 | 518 | 602.2 | 20 | | | 4.2 | | | 329.5 | 1.26 | 1.10 | 0.28 | 0.48 | 0.55 | 0.23 | | | | 8 | 4 | 40.4 | 1.021 | 6.0 |
| D2 | 430542.374 | 5523339.42 | 420 | 572 | 12 | | | 7.2 | | | 227.0 | 0.69 | 1.35 | 1.40 | 0.56 | 0.54 | 0.33 | | | | 66 | 41 | 124.9 | 1.081 | 5.0 |
| E2 | 430542.374 | 5523271.42 | 354 | 485 | 10 | | | 7.4 | | | 181.5 | 0.83 | 0.66 | 1.67 | 0.48 | 0.40 | 0.29 | 6.3 | 7.1 | 6.2 | 60 | 48 | 120.1 | 1.078 | 5.5 |
| F2 | 430542.374 | 5523203.42 | 441 | 538.5 | 8 | | | 8.9 | | 66 | 185.5 | 0.71 | 0.85 | 1.61 | 0.48 | 0.55 | 0.33 | | | | 58 | 32 | 118.7 | 1.084 | 6.5 |
| G2 | 430542.374 | 5523135.42 | 446 | 595.1 | 9 | | | 10.7 | | | 188.5 | 0.75 | 0.88 | 1.66 | 0.61 | 0.55 | 0.37 | | | | 67 | 44 | 135.4 | 1.085 | 6.5 |
| H2 | 430542.374 | 5523067.42 | 428 | 525.9 | 7 | | | 9.4 | | 57 | 150.5 | 0.37 | 0.29 | 0.19 | 0.57 | 0.40 | 0.22 | 6.0 | 7.2 | 6.5 | 66 | 41 | 143.5 | 1.086 | 7.0 |
| I2 | 430542.374 | 5522999.42 | 420 | 554.8 | 8 | | | 24.7 | | | 330.5 | 0.94 | 0.89 | 0.83 | 0.63 | 0.59 | 0.34 | | | | 68 | 45 | 105.6 | 1.084 | 6.5 |
| J2 | 430542.374 | 5522931.42 | 375 | 460.1 | 9 | | | 7.8 | | | 199.5 | 1.30 | 1.38 | 1.34 | 0.62 | 0.55 | 0.30 | | | | 57 | 47 | 140.4 | 1.081 | 8.0 |
| K2 | 430542.374 | 5522863.42 | 402 | 492.6 | 7 | | | 6.2 | | | 204.0 | 2.36 | 1.78 | 1.74 | 0.61 | 0.5 | 0.43 | 6.5 | 7.8 | 7.3 | 66 | 47 | 169.2 | 1.074 | 6.0 |
| A3 | 430610.374 | 5523543.42 | 367 | 496.9 | 9 | 20 | | 12.2 | 20.6 | 107 | 429.0 | 1.69 | 2.28 | 1.53 | 0.42 | 0.36 | 0.22 | | | | 65 | 44 | 228.8 | 1.081 | 8.0 |
| B3 | 430610.374 | 5523475.42 | 417 | 563.3 | 8 | 8 | | 3.5 | 4.3 | | 210.5 | 0.72 | 0.57 | 0.10 | 0.51 | 0.52 | 0.25 | | | | 54 | 29 | 129.7 | 1.083 | 6.5 |
| C3 | 430610.374 | 5523407.42 | 461 | 608.8 | 19 | 34 | | 6.6 | 3.3 | | 356.5 | 1.07 | 1.45 | 1.00 | 0.50 | 0.52 | 0.39 | 6.4 | 8.1 | 7.0 | 48 | 33 | 115.2 | 1.078 | 7.0 |
| D3 | 430610.374 | 5523339.42 | 470 | 620.9 | 18 | 24 | | 6.6 | 3.6 | | 304.5 | 0.78 | 1.75 | 1.17 | 0.42 | 0.41 | 0.29 | | | | 62 | 43 | 158.3 | 1.082 | 6.0 |
| E3 | 430610.374 | 5523271.42 | 382 | 475.4 | 7 | 9 | | 3.1 | 1.8 | 78 | 171.5 | 0.61 | 1.03 | 0.67 | 0.47 | 0.49 | 0.28 | | | | 62 | 45 | 153.7 | 1.087 | 6.5 |
| F3 | 430610.374 | 5523203.42 | 453 | 561.3 | 8 | 10 | | 1.7 | 1.7 | | 182.5 | 0.39 | 0.31 | 0.39 | 0.40 | 0.36 | 0.15 | 6.1 | 7.4 | 5.8 | 67 | 49 | 171.5 | 1.090 | 6.5 |
| G3 | 430610.374 | 5523135.42 | 452 | 536.7 | 9 | 8 | | 7.7 | 3.2 | | 255.0 | 0.43 | 0.47 | 0.74 | 0.56 | 0.55 | 0.34 | | | | 70 | 46 | 120.9 | 1.087 | 7.0 |
| H3 | 430610.374 | 5523067.42 | 453 | 542.4 | 7 | 8 | | 8.3 | 5.1 | | 238.5 | 0.50 | 0.08 | 0.20 | 0.60 | 0.51 | 0.34 | | | | 69 | 55 | 133.2 | 1.093 | 7.0 |
| I3 | 430610.374 | 5522999.42 | 402 | 503.8 | 9 | 10 | | 7.9 | 7.8 | | 258.5 | 1.16 | 0.56 | 0.47 | 0.67 | 0.56 | 0.31 | 6.4 | 8.0 | 6.2 | 57 | 53 | 135.6 | 1.087 | 7.5 |
| J3 | 430610.374 | 5522931.42 | 456 | 578.8 | 13 | 14 | | 26.6 | 6.9 | | 169.5 | 1.93 | 1.59 | 1.24 | 0.59 | 0.53 | 0.34 | | | | 46 | 27 | 149.6 | 1.075 | 6.5 |
| K3 | 430610.374 | 5522863.42 | 453 | 530.3 | 11 | 11 | | 6.4 | 9.0 | 152 | 244.0 | 2.35 | 1.90 | 1.61 | 0.60 | 0.52 | 0.37 | | | | 59 | 37 | 120.4 | 1.077 | 5.5 |
| A4 | 430678.374 | 5523543.42 | 431 | 535.3 | 7 | 8 | | 3.5 | 3.3 | | 205.5 | 0.86 | 0.71 | 0.53 | 0.51 | 0.59 | 0.43 | | 7.1 | 6.3 | 56 | 41 | 122.3 | 1.090 | 7.5 |
| B4 | 430678.374 | 5523475.42 | 434 | 539.5 | 6 | 6 | | 3.1 | 2.8 | | 196.0 | 0.62 | 0.35 | 0.27 | 0.53 | 0.59 | 0.42 | | | | 71 | 54 | 129.8 | 1.090 | 8.5 |
| C4 | 430678.374 | 5523407.42 | 441 | 556.8 | 11 | 10 | | 16.4 | 13.3 | 98 | 267.0 | 1.70 | 1.58 | 1.37 | 0.35 | 0.47 | 0.23 | | | | 64 | 47 | 145.2 | 1.081 | 7.0 |
| D4 | 430678.374 | 5523339.42 | 424 | 553.2 | 10 | 17 | | 4.6 | 4.6 | | 269.5 | 0.76 | 1.12 | 1.41 | 0.55 | 0.62 | 0.38 | 6.5 | 8.0 | 6.5 | 66 | 58 | 143.3 | 1.087 | 6.0 |
| E4 | 430678.374 | 5523271.42 | 384 | 490.5 | 7 | 7 | | 3.0 | 2.8 | | 271.5 | 0.37 | 0.33 | 0.29 | 0.51 | 0.54 | 0.27 | | | | 71 | 55 | 138.7 | 1.086 | 5.5 |
| F4 | 430678.374 | 5523203.42 | 412 | 530.2 | 7 | 7 | | 4.6 | 3.6 | | 246.0 | 0.54 | 0.97 | 0.92 | 0.63 | 0.62 | 0.39 | | | | 61 | 44 | 95.7 | 1.085 | 6.0 |
| G4 | 430678.374 | 5523135.42 | 414 | 515.6 | 8 | 9 | | 11.3 | 13.6 | | 367.0 | 0.67 | 0.70 | 0.83 | 0.57 | 0.53 | 0.28 | 6.4 | 7.4 | 6.1 | 70 | 60 | 114.6 | 1.091 | 7.0 |
| H4 | 430678.374 | 5523067.42 | 458 | 558.2 | 9 | 10 | | 5.2 | 6.1 | | 259.5 | 0.60 | 0.40 | 0.73 | 0.52 | 0.43 | 0.25 | | | | 73 | 52 | 100.7 | 1.087 | 7.0 |
| I4 | 430678.374 | 5522999.42 | 468 | 570.1 | 7 | 7 | 0.2 | 6.9 | 5.1 | 78 | 256.0 | 0.63 | 0.70 | 0.69 | 0.58 | 0.53 | 0.30 | | | | 52 | 39 | 87.1 | 1.080 | 5.5 |
| J4 | 430678.374 | 5522931.42 | 438 | 555.6 | 11 | 10 | | 6.4 | 2.7 | | 156.5 | 1.34 | 0.85 | 1.06 | 0.29 | 0.23 | 0.12 | 6.4 | 7.4 | 6.4 | 39 | 33 | 128.1 | 1.087 | 6.5 |
| K4 | 430678.374 | 5522863.42 | 448 | 562.1 | 16 | 42 | | 9.1 | 22.1 | | 193.0 | 1.34 | 2.03 | 1.56 | 0.50 | 0.50 | 0.27 | | | | 58 | 45 | 112.8 | 1.087 | 8.5 |
| A5 | 430746.374 | 5523543.42 | 369 | 464.4 | 7 | 6 | | 3.4 | 3.8 | 94 | 208.5 | 0.67 | 0.49 | 0.11 | 0.63 | 0.54 | 0.32 | | | | 50 | 33 | 75.0 | 1.081 | 7.5 |
| B5 | 430746.374 | 5523475.42 | 425 | 527.6 | 10 | 16 | 0 | 4.3 | 18.0 | | 229.5 | 0.87 | 0.66 | 1.51 | 0.62 | 0.42 | 0.39 | 6.6 | 6.8 | 6.3 | 61 | 46 | 109.2 | 1.092 | 6.5 |
| C5 | 430746.374 | 5523407.42 | 429 | 559.4 | 14 | 11 | | 6.5 | 8.8 | | 261.5 | 1.41 | 1.32 | 1.05 | 0.40 | 0.30 | 0.21 | | | | 56 | 39 | 132.8 | 1.088 | 7.5 |
| D5 | 430746.374 | 5523339.42 | 429 | 573.6 | 10 | 28 | | 3.2 | 7.4 | | 168.0 | 0.15 | 0.52 | 1.50 | 0.61 | 0.48 | 0.44 | | | | 72 | 60 | 116.0 | 1.090 | 7.0 |
| E5 | 430746.374 | 5523271.42 | 424 | 552.3 | 8 | 21 | | 2.0 | 4.5 | | 173.5 | 0.24 | 0.36 | 1.03 | 0.65 | 0.45 | 0.51 | 6.3 | 6.7 | 7.0 | 81 | 65 | 100.7 | 1.089 | 6.5 |
| F5 | 430746.374 | 5523203.42 | 481 | 647.8 | 12 | 30 | | 10.1 | 12.2 | 205 | 454.5 | 0.32 | 0.07 | 0.03 | 0.64 | 0.54 | 0.43 | | | | 49 | 21 | 65.6 | 1.084 | 6.5 |
| G5 | 430746.374 | 5523135.42 | 429 | 568.7 | 26 | 36 | | 17.0 | 30.7 | | 145.5 | 1.04 | 0.85 | 1.12 | 0.42 | 0.24 | 0.20 | | | | 48 | 35 | 116.4 | 1.082 | 6.5 |
| H5 | 430746.374 | 5523067.42 | 469 | 557.7 | 13 | 16 | | 3.6 | 2.3 | | 250.5 | 0.13 | 0.05 | 0.07 | 0.64 | 0.59 | 0.51 | 6.0 | 7.1 | 6.3 | 54 | 32 | 81.5 | 1.090 | 6.5 |
| I5 | 430746.374 | 5522999.42 | 462 | 553.3 | 13 | 15 | | 3.3 | 2.6 | | 188.0 | 0.15 | 0.04 | 0.18 | 0.62 | 0.63 | 0.40 | | | | 61 | 42 | 91.3 | 1.084 | 7.0 |
| J5 | 430746.374 | 5522931.42 | 437 | 553.1 | 10 | 15 | | 1.7 | 2.3 | 115 | 172.5 | 0.13 | 0.03 | 0.23 | 0.62 | 0.56 | 0.36 | | | | 76 | 60 | 133.0 | 1.087 | 5.5 |
| K5 | 430746.374 | 5522863.42 | 382 | 546.1 | 10 | 22 | 0.1 | 2.2 | 2.6 | | 300.5 | 0.67 | 0.67 | 0.90 | 0.59 | 0.58 | 0.40 | 6.0 | 7.2 | | 48 | 35 | 109.1 | 1.087 | 7.0 |
| **Means** | | | **427** | **541.2** | **11** | **15** | **0.54** | **7.5** | **7.2** | **108** | **236.1** | **0.89** | **0.85** | **0.82** | **0.53** | **0.47** | **0.31** | **6** | **7.5** | **6** | **59** | **43** | **129.4** | **1.084** | **6.7** |

**✤ Additional Information, as follows.**
DR – June 24 – September 18, 1997
Kel – Kelowna method
DT[1] – July 7, 1997
DT[2] – July 24, 1997
DT[3] – August 13, 1997

# IV. 1997 Hays Grid Sample Data

| 1998 Hays Site (Snowden) | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Position Data | | Moisture | | Soil Characteristics | | | | | | | | Petiole Nutrient Contents | | | | | | | | | Hand-Sampled Tuber Data | | | | |
| Site | Easting (m) | Northing (m) | Irrigation + Precipitation (mm) | Consumptive Use (mm) | Clay (%) | | $CaCO_3$ (%) | $NO_3$-N (ppm) | | $PO_4$-P (ppm) | K (ppm) | | $NO_3$-N (%) | | | P (%) | | | K (%) | | | Total Yield (t/ha) | Medium Tuber Yield (t/ha) | Mean Tuber Weight (g) | Specific Gravity | Chipping Score |
| Info✚ | | | DR | | | | | | | Kel | AA | Kel | DT[1] | DT[2] | DT[3] | DT[1] | DT[2] | DT[3] | DT[1] | DT[2] | DT[3] | | | | | |
| Depth (cm) | | | | (0-100) | (0-60) | (60-90) | (0-30) | (0-60) | (60-90) | (0-15) | (0-30) | (0-30) | | | | | | | | | | | | | | |
| D1 | 438562.2 | 5537593.3 | 432 | 525 | 8 | 5 | | 3.8 | 2.5 | 17 | 176.9 | 119 | 1.25 | 0.21 | 0.06 | 0.48 | 0.13 | 0.09 | 6.2 | 7.3 | | 61 | 61 | 120.4 | 1.085 | 50.5 |
| E1 | 438562.2 | 5537525.3 | 428 | 599 | 22 | 42 | | 3.9 | 1.7 | 20 | 243.8 | 155 | 1.69 | 0.81 | 0.26 | 0.38 | 0.12 | 0.09 | | | 6.6 | 48 | 47 | 109.8 | 1.084 | 44.5 |
| F1 | 438562.2 | 5537457.3 | 443 | 562 | 11 | 28 | | 4.1 | 2.9 | 13 | 123.6 | 74 | 1.45 | 0.83 | 0.13 | 0.49 | 0.12 | 0.10 | | | | 56 | 55 | 111.2 | 1.088 | 44.5 |
| G1 | 438562.2 | 5537389.3 | 442 | 577 | 13 | 35 | | 5.0 | 1.7 | 15 | 136.1 | 87 | 1.56 | 0.29 | 0.25 | 0.39 | 0.13 | 0.10 | | | | 51 | 50 | 121.8 | 1.084 | 44 |
| H1 | 438562.2 | 5537321.3 | 433 | 574 | 17 | 30 | | 2.5 | 2.3 | 17 | 127.5 | 81 | 1.70 | 0.51 | 0.10 | 0.31 | 0.15 | 0.10 | 6.1 | 6.9 | 5.8 | 48 | 47 | 148.3 | 1.085 | 52 |
| I1 | 438562.2 | 5537253.3 | 426 | 525 | 8 | 25 | | 3.6 | 2.2 | 15 | 127.5 | 76 | 1.52 | 0.87 | 0.22 | 0.42 | 0.15 | 0.11 | | | | 54 | 53 | 105.8 | 1.084 | 48 |
| C2 | 438630.2 | 5537661.3 | 411 | 559 | 30 | 29 | | 6.1 | 1.4 | 10 | 163.5 | 91 | 2.07 | 0.63 | 0.34 | 0.27 | 0.11 | 0.09 | | | | 56 | 55 | 132.7 | 1.090 | 50.5 |
| D2 | 438630.2 | 5537593.3 | 424 | 545 | 6 | 14 | 0.05 | 8.9 | 3.9 | 13 | 172.5 | 111 | 1.70 | 0.99 | 0.18 | 0.37 | 0.12 | 0.10 | | | | 56 | 52 | 143.7 | 1.082 | 51.5 |
| E2 | 438630.2 | 5537525.3 | 427 | 569 | 18 | 38 | | 3.5 | 1.5 | 16 | 335.4 | 206 | 1.94 | 0.51 | 0.27 | 0.30 | 0.14 | 0.09 | 6.5 | 8.4 | 7.4 | 61 | 59 | 158.6 | 1.083 | 52 |
| F2 | 438630.2 | 5537457.3 | 407 | 528 | 22 | 41 | 0 | 8.7 | 1.5 | 13 | 151.9 | 99 | 1.50 | 0.98 | 0.19 | 0.33 | 0.12 | 0.10 | | | | 44 | 44 | 134.2 | 1.089 | 54.5 |
| G2 | 438630.2 | 5537389.3 | 444 | 596 | 31 | 43 | | 4.2 | 1.5 | 12 | 136.6 | 85 | 1.83 | 0.76 | 0.37 | 0.25 | 0.12 | 0.09 | | | | 45 | 45 | 123.1 | 1.088 | 43.5 |
| H2 | 438630.2 | 5537321.3 | 453 | 583 | 15 | 36 | | 3.1 | 1.1 | 12 | 123.5 | 69 | 1.82 | 1.17 | 0.27 | 0.34 | 0.20 | 0.11 | 6.4 | 7.5 | 5.1 | 52 | 51 | 150.1 | 1.085 | 46 |
| I2 | 438630.2 | 5537253.3 | 396 | 480 | 6 | 4 | 0 | 6.5 | 4.7 | 16 | 105.4 | 60 | 0.92 | 0.15 | 0.02 | 0.47 | 0.14 | 0.12 | | | | 37 | 36 | 133.7 | 1.083 | 43.5 |
| J2 | 438630.2 | 5537185.3 | 415 | 498 | 5 | 4 | 0 | 5.4 | 1.3 | 15 | 102.6 | 64 | 1.12 | 0.21 | 0.01 | 0.50 | 0.18 | 0.12 | | | | 39 | 39 | 130.6 | 1.083 | 39.5 |
| B3 | 438698.2 | 5537729.3 | 438 | 574 | 33 | 40 | 1.35 | 3.3 | 1.8 | 14 | 178.0 | 90 | 1.47 | 0.52 | 0.14 | 0.23 | 0.11 | 0.10 | | | | 40 | 38 | 97.8 | 1.091 | 51.5 |
| C3 | 438698.2 | 5537661.3 | 450 | 547 | 11 | 37 | | 5.3 | 2.2 | 14 | 137.5 | 76 | 1.36 | 0.46 | 0.19 | 0.25 | 0.10 | 0.09 | 6.3 | 7.0 | 6.1 | 55 | 54 | 124.5 | 1.088 | 46 |
| D3 | 438698.2 | 5537593.3 | 415 | 559 | 21 | 45 | | 3.2 | 1.5 | 13 | 132.4 | 72 | 1.15 | 0.61 | 0.21 | 0.31 | 0.11 | 0.09 | | | | 56 | 52 | 177.5 | 1.085 | 50 |
| E3 | 438698.2 | 5537525.3 | 378 | 497 | 10 | 20 | 0 | 9.4 | 1.6 | 18 | 298.6 | 176 | 1.75 | 0.93 | 0.15 | 0.34 | 0.13 | 0.09 | | | | 68 | 61 | 179.5 | 1.082 | 44 |
| F3 | 438698.2 | 5537457.3 | 390 | 485 | 7 | 5 | | 4.6 | 2.2 | 20 | 109.9 | 65 | 0.35 | 0.06 | 0.01 | 0.46 | 0.14 | 0.10 | 6.2 | 6.6 | 6.3 | 47 | 46 | 109.2 | 1.087 | 45.5 |
| G3 | 438698.2 | 5537389.3 | 415 | 501 | 8 | 8 | | 2.7 | 0.5 | 15 | 111.8 | 75 | 1.07 | 0.16 | 0.03 | 0.31 | 0.10 | 0.11 | | | | 49 | 48 | 154 | 1.087 | 45.5 |
| H3 | 438698.2 | 5537321.3 | 389 | 506 | 6 | 7 | | 3.4 | 7.1 | 16 | 130.5 | 93 | 1.29 | 0.29 | 0.06 | 0.45 | 0.15 | 0.10 | | | | 47 | 45 | 121.2 | 1.084 | 41.5 |
| I3 | 438698.2 | 5537253.3 | 438 | 564 | 27 | 32 | | 2.1 | 1.4 | 9 | 130.6 | 78 | 1.45 | 0.71 | 0.20 | 0.36 | 0.15 | 0.10 | 6.3 | 5.8 | 4.2 | 58 | 57 | 136.6 | 1.088 | 47 |
| J3 | 438698.2 | 5537185.3 | 369 | 504 | 6 | 6 | 0.85 | 2.7 | 1.9 | 24 | 131.4 | 83 | 1.23 | 0.36 | 0.09 | 0.42 | 0.15 | 0.11 | | | | 50 | 50 | 118.8 | 1.080 | 49.5 |
| K3 | 438698.2 | 5537117.3 | 450 | 587 | 14 | 43 | | 5.4 | 3.8 | 13 | 86.5 | 59 | 1.41 | 0.51 | 0.26 | 0.45 | 0.17 | 0.11 | | | | 56 | 55 | 136.3 | 1.088 | 50 |
| a4 | 438766.2 | 5537763.3 | 419 | 551 | 15 | 31 | 1.2 | 3.4 | 1.4 | 12 | 159.6 | 97 | 1.64 | 0.55 | 0.27 | 0.22 | 0.11 | 0.10 | | | | 50 | 47 | 162.7 | 1.091 | 47 |
| b4 | 438766.2 | 5537695.3 | 405 | 548 | 28 | 29 | | 4.8 | 1.2 | 15 | 210.4 | 111 | 1.87 | 0.90 | 0.32 | 0.24 | 0.10 | 0.09 | 6.1 | 6.8 | 7.0 | 46 | 40 | 149.7 | 1.085 | 45 |
| c4 | 438766.2 | 5537627.3 | 379 | 522 | 15 | 44 | | 2.4 | 1.5 | 15 | 110.1 | 72 | 1.53 | 0.94 | 0.35 | 0.32 | 0.12 | 0.09 | | | | 66 | 65 | 134.2 | 1.090 | 47.5 |
| d4 | 438766.2 | 5537559.3 | 397 | 541 | 20 | 40 | | 3.0 | 1.5 | 13 | 191.1 | 107 | 1.92 | 1.02 | 0.25 | 0.26 | 0.11 | 0.09 | | | | 58 | 52 | 168 | 1.087 | 47 |
| e4 | 438766.2 | 5537491.3 | 382 | 467 | 8 | 18 | | 2.4 | 1.6 | 13 | 125.1 | 85 | 1.31 | 0.16 | 0.05 | 0.38 | 0.12 | 0.09 | 6.1 | 7.3 | 6.9 | 58 | 57 | 150.2 | 1.085 | 42 |
| f4 | 438766.2 | 5537423.3 | 388 | 479 | 11 | 24 | | 4.3 | 1.0 | 15 | 292.5 | 155 | 1.85 | 0.89 | 0.01 | 0.29 | 0.10 | 0.11 | | | | 46 | 43 | 146.4 | 1.086 | 46.5 |
| g4 | 438766.2 | 5537355.3 | 373 | 529 | 23 | 39 | | 3.8 | 1.7 | 12 | 100.9 | 67 | 1.42 | 0.56 | 0.09 | 0.37 | 0.11 | 0.10 | | | | 49 | 48 | 136.1 | 1.086 | 39.5 |
| h4 | 438766.2 | 5537287.3 | 409 | 597 | 30 | 43 | | 2.3 | 1.5 | 10 | 132.8 | 77 | 1.75 | 1.06 | 0.35 | 0.26 | 0.10 | 0.09 | 6.1 | 7.1 | 5.5 | 55 | 53 | 135.2 | 1.090 | 50.5 |
| i4 | 438766.2 | 5537219.3 | 409 | 524 | 8 | 18 | | 3.3 | 1.5 | 11 | 133.9 | 88 | 1.76 | 0.61 | 0.42 | 0.42 | 0.12 | 0.12 | | | | 55 | 55 | 155.2 | 1.085 | 44.5 |
| j4 | 438766.2 | 5537151.3 | 399 | 513 | 7 | 11 | | 2.4 | 0.7 | 8 | 81.8 | 52 | 1.29 | 0.46 | 0.04 | 0.44 | 0.17 | 0.12 | | | | 46 | 44 | 145.1 | 1.084 | 44 |
| k4 | 438766.2 | 5537083.3 | 400 | 510 | 8 | 7 | | 6.6 | 2.1 | 12 | 94.5 | 57 | 1.86 | 0.89 | 0.28 | 0.43 | 0.20 | 0.13 | 6.2 | 6.2 | 4.6 | 51 | 50 | 122 | 1.083 | 47 |
| A5 | 438834.2 | 5537797.3 | 402 | 516 | 19 | 27 | | 2.7 | 2.4 | 11 | 232.2 | 127 | 1.97 | 0.61 | 0.22 | 0.20 | 0.13 | 0.08 | | | | 53 | 53 | 154.1 | 1.086 | 46 |
| B5 | 438834.2 | 5537729.3 | 441 | 568 | 30 | 37 | | 4.5 | 1.8 | 16 | 216.7 | 122 | 2.13 | 0.92 | 0.25 | 0.18 | 0.11 | 0.08 | | | | 56 | 55 | 153.3 | 1.089 | 48 |
| C5 | 438834.2 | 5537661.3 | 432 | 555 | 9 | 12 | | 5.1 | 1.7 | 15 | 136.2 | 87 | 1.17 | 0.14 | 0.02 | 0.36 | 0.12 | 0.09 | 6.3 | 7.2 | 7.0 | 40 | 40 | 124.5 | 1.082 | 48 |
| D5 | 438834.2 | 5537593.3 | 410 | 539 | 15 | 45 | 0.7 | 3.2 | 2.8 | 14 | 154.9 | 92 | 1.60 | 0.16 | 0.03 | 0.39 | 0.13 | 0.11 | | | | 47 | 46 | 143.1 | 1.084 | 48 |
| E5 | 438834.2 | 5537525.3 | 394 | 478 | 10 | 12 | | 5.6 | 3.0 | 12 | 106.4 | 64 | 1.83 | 0.16 | 0.07 | 0.5 | 0.19 | 0.12 | | | | 54 | 54 | 177.1 | 1.086 | 46.5 |
| F5 | 438834.2 | 5537457.3 | 375 | 489 | 11 | 38 | | 9.9 | 2.8 | 14 | 112.0 | 68 | 1.83 | 0.23 | 0.11 | 0.42 | 0.14 | 0.12 | 6.2 | 6.8 | 6.3 | 61 | 55 | 140.1 | 1.087 | 38.5 |
| G5 | 438834.2 | 5537389.3 | 380 | 546 | 18 | 40 | | 2.6 | 2.8 | 11 | 121.5 | 71 | 1.55 | 0.40 | 0.10 | 0.42 | 0.13 | 0.12 | | | | 48 | 48 | 121.4 | 1.082 | 45.5 |
| H5 | 438834.2 | 5537321.3 | 396 | 516 | 12 | 36 | 0 | 6.1 | 2.7 | 14 | 134.0 | 82 | 1.49 | 0.65 | 0.27 | 0.45 | 0.15 | 0.14 | | | | 48 | 46 | 138.6 | 1.086 | 42.5 |
| I5 | 438834.2 | 5537253.3 | 412 | 573 | 19 | 38 | 0 | 3.1 | 1.9 | 11 | 103.1 | 69 | 1.58 | 0.77 | 0.45 | 0.43 | 0.16 | 0.12 | 6.2 | 7.0 | 4.9 | 65 | 59 | 159.1 | 1.085 | 39.5 |
| J5 | 438834.2 | 5537185.3 | 424 | 535 | 8 | 25 | | 2.6 | 2.1 | 13 | 113.1 | 71 | 1.13 | 0.25 | 0.05 | 0.44 | 0.16 | 0.12 | | | | 44 | 43 | 133.5 | 1.090 | 46 |
| K5 | 438834.2 | 5537117.3 | 448 | 590 | 19 | 32 | | 2.8 | 3.0 | 10 | 107.4 | 67 | 1.13 | 0.53 | 0.02 | 0.36 | 0.13 | 0.13 | | | | 32 | 31 | 98.5 | 1.086 | 47 |
| L5 | 438834.2 | 5537049.3 | 445 | 591 | 27 | 45 | | 2.7 | 1.7 | 15 | 226.0 | 120 | 1.29 | 0.91 | 0.31 | 0.47 | 0.22 | 0.13 | 6.4 | 7.6 | 6.1 | 53 | 50 | 155.5 | 1.082 | 43.5 |
| **Means** | | | **412** | **539** | **15** | **28** | **0.4** | **4.3** | **2.1** | **14** | **150** | **90** | **1.52** | **0.58** | **0.18** | **0.36** | **0.14** | **0.10** | **6.2** | **7.0** | **6.0** | **51** | **50** | **137.9** | **1.086** | **46.3** |

**✚ Additional Information, as follows.**

DR – June 23 – September 4, 1997
Kel – Kelowna method
AA – Ammonium Acetate method
DT[1] – July 3, 1997
DT[2] – July 23, 1997
DT[3] – August 12, 1997

# V. 1998 Fincastle Grid Sample Data

| 1998 Fincastle Site (Russet Burbank) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Position Data | | Moisture | | | | Soil Characteristics | | | | | | | | Petiole Nutrient Contents | | | | | | | | | Hand-Sampled Tuber Data | | | | |
| Site | Easting (m) | Northing (m) | Irrigation + Precipitation (mm) | Consumptive Use (mm) | Available Water (%) | | Clay (%) | | $CaCO_3$ (%) | $NO_3$-N (ppm) | | $PO_4$-P (ppm) | K (ppm) | | $NO_3$-N (%) | | | P (%) | | | K (%) | | | Total Yield (t/ha) | Medium Tuber Yield (t/ha) | Mean Tuber Weight (g) | Specific Gravity | French Fry Score |
| Info✚ | | | DR | | | | | | | | | Kel | AA | Kel | DT[1] | DT[2] | DT[3] | DT[1] | DT[2] | DT[3] | DT[1] | DT[2] | DT[3] | | | | | |
| Depth (cm) | | | | (0-100) | (0-60) | (60-100) | (0-60) | (60-90) | (0-30) | (0-60) | (60-90) | (0-15) | (0-30) | (0-30) | | | | | | | | | | | | | | |
| A1 | 430812.375 | 5523543.126 | 361 | 363.2 | 34 | 64 | 10 | 11 | 0.20 | 1.8 | 1.1 | 32.5 | 125.5 | 148.6 | 0.86 | 1.36 | 1.57 | 0.30 | 0.19 | 0.13 | 6.5 | 6.6 | 5.3 | 39 | 27 | 141.0 | 1.066 | 9.3 |
| B1 | 430811.632 | 5523475.175 | 379 | 391.4 | 31 | 52 | 10 | 28 | | 1.4 | 5.3 | 20.8 | | 152.4 | | 1.05 | 0.95 | | 0.13 | 0.09 | | 6.4 | 4.8 | 42 | 27 | 96.1 | 1.071 | 9.3 |
| C1 | 430810.417 | 5523407.056 | 382 | 395.3 | 122 | 88 | 12 | 8 | | 2.2 | 1.0 | 40.9 | | 258.8 | 1.26 | 1.71 | 1.21 | 0.28 | 0.21 | 0.14 | 7.4 | 8.2 | 8.5 | 42 | 30 | 139.4 | 1.074 | 9.5 |
| D1 | 430809.695 | 5523339.225 | 382 | 376.7 | 68 | 177 | 6 | 7 | | 0.9 | 1.5 | 34.0 | | 129.4 | 0.19 | 0.40 | 0.22 | 0.43 | 0.19 | 0.12 | 5.7 | 5.2 | 3.4 | 44 | 33 | 105.8 | 1.075 | 8.8 |
| E1 | 430808.867 | 5523271.117 | 389 | 387.5 | 83 | 170 | 8 | 8 | | 7.1 | 3.5 | 39.8 | | 163.6 | 0.61 | 1.66 | 1.57 | 0.46 | 0.27 | 0.21 | 6.7 | 7.1 | 6.0 | 46 | 34 | 134.7 | 1.084 | 9.3 |
| F1 | 430807.816 | 5523203.228 | 573 | 531.3 | 165 | 203 | 10 | 21 | | 1.1 | 0.9 | 34.8 | | 105.4 | 0.51 | 0.62 | 0.52 | 0.19 | 0.12 | 0.10 | 6.0 | 5.1 | 4.6 | 30 | 22 | 110.4 | 1.068 | 9.0 |
| G1 | 430806.907 | 5523135.176 | 396 | 360.2 | 63 | 111 | 8 | 7 | 2.90 | 0.9 | 1.2 | 39.3 | 92.5 | 121.0 | 0.62 | 1.11 | 1.28 | 0.20 | 0.13 | 0.15 | 6.0 | 4.6 | 5.3 | 45 | 31 | 128.1 | 1.075 | 8.5 |
| H1 | 430806.02 | 5523067.21 | 421 | 425.9 | 56 | 63 | 11 | 12 | | 1.4 | 1.7 | 22.8 | | 116.8 | 0.86 | 1.04 | 1.22 | 0.17 | 0.14 | 0.17 | 6.2 | 4.7 | | 37 | 24 | 138.1 | 1.078 | 8.8 |
| I1 | 430805.056 | 5522999.311 | 432 | 436.0 | 78 | 114 | 9 | 8 | | 4.2 | 9.4 | 47.0 | | 94.6 | 0.58 | 0.36 | 0.65 | 0.25 | 0.13 | 0.13 | 5.9 | 5.3 | 5.3 | 35 | 20 | 112.5 | 1.067 | 8.3 |
| J1 | 430804.199 | 5522931.362 | 447 | 448.3 | 110 | 191 | 10 | 17 | | 1.2 | 4.3 | 57.8 | | 114.0 | 0.44 | 0.98 | 0.92 | 0.33 | 0.19 | 0.20 | 6.2 | 5.4 | 6.5 | 39 | 35 | 175.8 | 1.073 | 6.8 |
| K1 | 430803.338 | 5522863.337 | 434 | 461.5 | 95 | 108 | 24 | 27 | | 2.7 | 3.9 | 62.0 | | 157.8 | 1.67 | 1.82 | 1.63 | 0.30 | 0.26 | 0.20 | 6.5 | 7.5 | 7.1 | 55 | 47 | 171.1 | 1.083 | 7.8 |
| A2 | 430885.597 | 5523576.237 | 289 | 306.5 | -4 | 37 | 13 | 10 | | 2.4 | 3.0 | 19.7 | | 131.2 | 2.26 | 2.02 | 1.87 | 0.33 | 0.17 | 0.13 | 7.0 | 5.7 | 6.0 | 37 | 32 | 172.6 | 1.074 | 8.3 |
| B2 | 430884.757 | 5523508.167 | 400 | 463.9 | 28 | 11 | 11 | 44 | | 1.8 | 6.6 | 21.1 | | 80.0 | 1.45 | 1.97 | 2.48 | 0.33 | 0.22 | 0.20 | 6.0 | 5.2 | 4.3 | 39 | 34 | 130.7 | 1.083 | 9.0 |
| C2 | 430883.885 | 5523440.255 | 361 | 415.0 | 74 | 114 | 21 | 23 | 8.65 | 10.5 | 30.5 | 33.8 | 163.5 | 132.8 | 1.14 | 1.23 | 1.66 | 0.27 | 0.21 | 0.20 | 5.9 | 6.7 | 7.2 | 31 | 17 | 113.1 | 1.074 | 8.5 |
| D2 | 430883.145 | 5523372.328 | 364 | 393.0 | 81 | 51 | 9 | 6 | | 2.4 | 3.0 | 31.6 | | 229.4 | 1.75 | 1.88 | 1.99 | 0.33 | 0.21 | 0.21 | 7.1 | 7.9 | 8.1 | 57 | 42 | 137.0 | 1.079 | 9.3 |
| E2 | 430882.246 | 5523304.386 | 373 | 407.9 | 130 | 150 | 10 | 10 | | 1.1 | 3.0 | 32.7 | | 195.4 | 1.30 | 1.50 | 1.65 | 0.22 | 0.16 | 0.18 | 7.6 | 6.2 | 7.5 | 47 | 39 | 206.0 | 1.077 | 9.0 |
| F2 | 430881.387 | 5523236.416 | 360 | 418.0 | 95 | 168 | 10 | 9 | 6.95 | 2.7 | 4.2 | 13.3 | 87.0 | 178.6 | 1.07 | 1.67 | 1.25 | 0.14 | 0.15 | 0.19 | 6.6 | 5.0 | 6.1 | 31 | 26 | 171.1 | 1.076 | 9.5 |
| G2 | 430880.517 | 5523168.414 | 356 | 402.0 | 71 | 115 | 9 | 9 | | 2.2 | 5.6 | 26.4 | | 184.0 | 1.28 | 1.67 | 1.65 | 0.19 | 0.11 | 0.19 | 8.0 | 5.2 | 7.2 | 52 | 50 | 198.5 | 1.080 | 7.8 |
| H2 | 430879.658 | 5523100.519 | 528 | 533.6 | 74 | 114 | 9 | 8 | | 1.0 | 1.5 | 23.7 | | 101.2 | 1.16 | 1.69 | 0.92 | 0.24 | 0.17 | 0.19 | 6.9 | 6.0 | 7.4 | 40 | 34 | 156.4 | 1.074 | 9.0 |
| I2 | 430878.826 | 5523032.568 | 402 | 417.8 | 80 | 217 | 10 | 9 | | 0.8 | 1.1 | 20.4 | | 154.4 | 1.02 | 1.58 | 1.70 | 0.22 | 0.15 | 0.20 | 6.8 | 4.8 | 6.7 | 41 | 32 | 130.3 | 1.070 | 8.8 |
| J2 | 430877.991 | 5522964.592 | 373 | 391.8 | 92 | 135 | 11 | 10 | 0.40 | 0.8 | 0.8 | 32.1 | 119.0 | 166.6 | 1.16 | 1.47 | 1.39 | 0.36 | 0.17 | 0.19 | 7.0 | 5.8 | 6.0 | 58 | 43 | 163.3 | 1.077 | 7.8 |
| K2 | 430877.172 | 5522896.629 | 388 | 462.7 | 37 | 108 | 14 | 16 | | 2.6 | 4.4 | 46.2 | | 167.6 | 1.27 | 1.79 | 1.75 | 0.45 | 0.28 | 0.21 | 7.4 | 6.4 | 6.4 | 45 | 31 | 142.0 | 1.079 | 9.7 |
| L2 | 430876.273 | 5522828.614 | 313 | 351.0 | 87 | 109 | 14 | 20 | | 2.9 | 3.9 | 39.1 | | 148.8 | 2.51 | 2.15 | 2.01 | 0.46 | 0.20 | 0.22 | 7.2 | 5.3 | 6.7 | 44 | 34 | 131.8 | 1.074 | 9.0 |
| A3 | 430958.199 | 5523541.139 | 314 | 313.9 | 65 | 128 | 13 | 13 | | 1.0 | 3.2 | 27.9 | | 174.6 | 0.88 | 1.07 | 1.30 | 0.21 | 0.10 | 0.08 | 7.3 | 5.3 | 4.1 | 32 | 16 | 77.1 | 1.061 | 9.0 |
| B3 | 430957.419 | 5523473.105 | 370 | 351.4 | 60 | 100 | 8 | 8 | | 0.6 | 1.4 | 20.3 | | 102.0 | 0.66 | 0.84 | 0.99 | 0.33 | 0.11 | 0.09 | 8.5 | 6.1 | 5.0 | 46 | 26 | 92.9 | 1.074 | 8.0 |
| C3 | 430956.612 | 5523405.18 | 380 | 360.2 | 132 | 177 | 17 | 31 | 0.55 | 0.7 | 0.6 | 43.1 | 286.0 | 310.0 | 1.60 | 1.57 | 1.50 | 0.30 | 0.16 | 0.10 | 9.0 | 9.0 | 9.0 | 50 | 41 | 145.5 | 1.075 | 9.3 |
| D3 | 430955.742 | 5523337.179 | 415 | 405.3 | 73 | 117 | 12 | 14 | | 0.2 | 1.4 | 20.1 | | 138.0 | 1.26 | 1.78 | 1.62 | 0.18 | 0.10 | 0.10 | 7.1 | 5.0 | 3.7 | 40 | 28 | 105.1 | 1.076 | 8.8 |
| E3 | 430954.96 | 5523269.237 | 408 | 408.6 | 91 | 187 | 12 | 15 | | 0.3 | 0.7 | 11.8 | | 100.0 | 1.07 | 1.68 | 1.74 | 0.19 | 0.11 | 0.10 | 7.4 | 4.3 | 3.9 | 33 | 23 | 106.5 | 1.075 | 9.3 |
| F3 | 430954.204 | 5523201.266 | 414 | 407.6 | 40 | 76 | 9 | 9 | | 0.0 | 0.0 | 11.9 | | 59.6 | 0.08 | 0.12 | 0.12 | 0.15 | 0.08 | 0.07 | 6.6 | 5.2 | 5.0 | 29 | 15 | 86.6 | 1.065 | 7.5 |
| G3 | 430953.393 | 5523133.326 | 398 | 399.6 | 72 | 119 | 10 | 15 | | 0.3 | 1.7 | 9.14 | | 57.8 | 0.48 | 0.73 | 0.81 | 0.23 | 0.09 | 0.09 | 6.7 | 4.0 | 3.2 | 41 | 31 | 116.5 | 1.076 | 7.8 |
| H3 | 430952.655 | 5523065.387 | 488 | 462.0 | 139 | 137 | 15 | 13 | 8.15 | 8.1 | 13.2 | 16.3 | 91.5 | 109.0 | 1.44 | 1.36 | 0.89 | 0.20 | 0.12 | 0.09 | 7.7 | 5.6 | 5.4 | 31 | 22 | 127.4 | 1.070 | 8.5 |
| I3 | 430951.737 | 5522997.333 | 456 | 442.1 | 108 | 108 | 11 | 15 | | 2.8 | 8.1 | 21.0 | | 122.6 | 0.91 | 0.97 | 0.97 | 0.25 | 0.10 | 0.10 | 8.1 | 6.0 | 3.8 | 39 | 29 | 116.7 | 1.069 | 8.3 |
| J3 | 430951.063 | 5522929.518 | 408 | 417.2 | 74 | 99 | 14 | 12 | | 1.5 | 4.4 | 21.8 | | 92.2 | 1.71 | 1.67 | 1.38 | 0.19 | 0.12 | 0.12 | 7.5 | 5.0 | 6.5 | 30 | 22 | 137.7 | 1.075 | 8.5 |
| K3 | 430950.116 | 5522861.567 | 320 | 340.8 | 46 | 137 | 15 | 36 | | 5.8 | 23.9 | 42.4 | | 257.4 | 2.03 | 2.17 | 1.89 | 0.30 | 0.10 | 0.11 | 8.5 | 7.2 | 7.5 | 42 | 36 | 156.8 | 1.064 | 8.5 |
| B4 | 431030.577 | 5523506.315 | 285 | 324.8 | 51 | 91 | 10 | 10 | 0.25 | 1.1 | 1.3 | 24.6 | 84.0 | 168.6 | 0.91 | 1.36 | 1.48 | 0.29 | 0.17 | 0.11 | 5.0 | 5.2 | 3.9 | 36 | 29 | 111.4 | 1.070 | 8.5 |
| C4 | 431029.8 | 5523438.124 | 391 | 455.2 | 101 | 151 | 23 | 31 | | 1.4 | 2.6 | 34.7 | | 583.2 | 1.64 | 1.47 | 1.46 | 0.23 | 0.18 | 0.12 | 6.4 | 6.2 | 5.5 | 52 | 31 | 128.5 | 1.068 | 8.3 |
| D4 | 431029.115 | 5523370.278 | 395 | 442.3 | 79 | 109 | 19 | 24 | | 0.9 | 1.1 | 24.7 | | 212.2 | 1.11 | 1.30 | 1.09 | 0.22 | 0.17 | 0.11 | 6.5 | | 5.8 | 45 | 28 | 133.5 | 1.075 | 9.5 |
| E4 | 431028.422 | 5523302.245 | 418 | 435.5 | 102 | 120 | 16 | 30 | | 1.2 | 2.0 | 29.3 | | 143.8 | 1.01 | 1.35 | 1.48 | 0.27 | 0.18 | 0.14 | 6.4 | 5.3 | 4.8 | 45 | 35 | 141.2 | 1.084 | 9.8 |
| F4 | 431027.637 | 5523234.197 | 427 | 451.9 | 45 | 114 | 16 | 35 | 1.10 | 1.0 | 1.6 | 15.8 | 65.0 | 73.0 | 1.04 | 1.24 | 1.42 | 0.16 | 0.16 | 0.11 | 5.8 | | 3.6 | 44 | 35 | 117.8 | 1.076 | 7.5 |
| G4 | 431027.011 | 5523166.323 | 418 | 443.4 | 107 | 198 | 9 | 9 | | 0.8 | 1.7 | 23.9 | | 451.8 | 0.80 | 0.95 | 1.18 | 0.28 | 0.19 | 0.12 | 5.9 | 5.3 | 4.4 | 47 | 29 | 109.4 | 1.074 | 8.8 |
| H4 | 431026.258 | 5523098.333 | 422 | 422.3 | 103 | 181 | 10 | 14 | | 0.8 | 0.8 | 27.5 | | 180.4 | 0.46 | 0.25 | 0.42 | 0.20 | 0.14 | 0.10 | 6.1 | 7.5 | 6.5 | 42 | 25 | 85.3 | 1.066 | 9.0 |
| I4 | 431025.488 | 5523030.342 | 398 | 390.9 | 63 | 79 | 9 | 10 | | 1.0 | 1.0 | 38.6 | | 117.6 | 1.08 | 1.53 | 1.36 | 0.18 | 0.20 | 0.12 | 6.1 | 6.8 | 5.7 | 42 | 34 | 119.0 | 1.076 | 8.2 |
| J4 | 431024.776 | 5522962.35 | 433 | 429.6 | 63 | 98 | 17 | 14 | | 1.2 | 2.9 | 12.0 | | 260.0 | 0.82 | 1.29 | 1.17 | 0.14 | 0.14 | 0.13 | 5.4 | 4.9 | 4.0 | 33 | 25 | 107.0 | 1.070 | 8.5 |
| K4 | 431023.95 | 5522894.345 | 316 | 347.2 | -2 | 9 | 13 | 14 | 0.45 | 1.0 | 1.4 | 35.6 | 196.5 | 429.2 | 1.35 | 1.56 | 1.01 | 0.20 | 0.16 | 0.14 | 6.7 | 6.5 | 6.6 | 53 | 36 | 117.1 | 1.074 | 9.0 |
| B5 | 431100.839 | 5523472.144 | 319 | 348.5 | 21 | 9 | 9 | 7 | | 1.8 | 2.9 | 30.6 | | 94.8 | 1.07 | 1.88 | 1.49 | 0.48 | 0.21 | 0.15 | 5.8 | 5.7 | 3.8 | 49 | 32 | 80.9 | 1.080 | 8.5 |
| C5 | 431100.222 | 5523403.549 | 320 | 349.0 | 35 | 18 | 10 | 10 | | 1.0 | 1.2 | 40.8 | | 128.8 | 0.96 | 1.25 | 1.53 | 0.27 | 0.14 | 0.11 | 6.0 | 5.3 | 2.6 | 45 | 27 | 92.6 | 1.080 | 8.5 |
| D5 | 431099.213 | 5523334.033 | 400 | 424.6 | 122 | 144 | 21 | 25 | 6.15 | 2.3 | 9.6 | 25.5 | 134.0 | 240.8 | 1.41 | 1.23 | 0.88 | 0.30 | 0.20 | 0.16 | 6.6 | 6.5 | 6.4 | 45 | 37 | 191.5 | 1.083 | 8.5 |
| E5 | 431098.364 | 5523267.723 | 396 | 425.4 | 108 | 165 | 16 | 31 | | 1.9 | 6.9 | 31.1 | | 213.8 | 1.22 | 2.09 | 1.20 | 0.43 | 0.26 | 0.17 | 6.9 | 7.4 | 6.6 | 65 | 54 | 123.4 | 1.085 | 9.5 |
| F5 | 431097.599 | 5523200.61 | 413 | 416.1 | 101 | 181 | 9 | 25 | | 2.6 | 2.5 | 31.5 | | 145.6 | 0.78 | 1.65 | 0.89 | 0.39 | 0.26 | 0.15 | 6.6 | 6.4 | 4.8 | 53 | 42 | 109.7 | 1.083 | 8.5 |
| G5 | 431096.721 | 5523133.014 | 426 | 432.1 | 68 | 134 | 9 | 9 | 0.00 | 1.5 | 3.1 | 39.2 | 43.5 | 156.2 | 0.33 | 1.73 | 1.44 | 0.65 | 0.33 | 0.24 | 6.9 | 6.4 | 5.7 | 76 | 52 | 118.6 | 1.084 | 8.7 |
| H5 | 431095.435 | 5523062.111 | 399 | 427.5 | 36 | 68 | 9 | 9 | | 1.0 | 2.7 | 38.3 | | 201.8 | 0.15 | 0.63 | 0.40 | 0.26 | 0.12 | 0.09 | 7.1 | 6.7 | 7.0 | 50 | 38 | 124.7 | 1.076 | 8.6 |
| I5 | 431093.623 | 5522995:354 | 449 | 496.2 | 104 | 135 | 11 | 28 | | 1.3 | 2.1 | 31.2 | | 283.6 | 1.26 | 2.28 | 1.15 | 0.43 | 0.28 | 0.23 | 6.9 | 7.5 | 7.8 | 69 | 59 | 167.8 | 1.084 | 8.5 |
| J5 | 431092.706 | 5522928.4 | 324 | 357.5 | 52 | 113 | 20 | 28 | | 0.5 | 1.3 | 32.7 | | 222.4 | 2.27 | 1.93 | 1.64 | 0.44 | 0.28 | 0.17 | 6.8 | 7.4 | 7.4 | 67 | 55 | 147.2 | 1.082 | 9.8 |
| **Means** | | | **393** | **408.9** | **76** | **116** | **12** | **16** | **2.98** | **1.9** | **3.9** | **29.9** | **124** | **174.8** | **1.09** | **1.39** | **1.28** | **0.28** | **0.17** | **0.14** | **6.7** | **6.0** | **5.7** | **44** | **33** | **130.2** | **1.075** | **8.7** |

**✚ Additional Information, as follows.**
DR – June 19 – September 16, 1998
Kel – Kelowna method
AA – Ammonium Acetate method
DT[1] – July 7, 1998
DT[2] – July 23, 1998
DT[3] – August 11, 1998

# VI. 1998 Hays Grid Sample Data

**1998 Hays Site (Snowden)**

| Site | Position Data: Easting (m) | Position Data: Northing (m) | Moisture: Irrigation + Precipitation (mm) | Moisture: Consumptive Use (mm) | Moisture: Available Water (%) | | Soil Characteristics: Clay (%) | | $CaCO_3$ (%) | $NO_3$-N (ppm) | | $PO_4$-P (ppm) | K (ppm) | | Petiole Nutrient Contents: $NO_3$-N (%) | | | P (%) | | | K (%) | | | Hand-Sampled Tuber Data: Total Yield (t/ha) | Medium Tuber Yield (t/ha) | Mean Tuber Weight (g) | Specific Gravity | French Fry Score | Chipping Score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Info✚ | | | DR | | | | | | | | | Kel | AA | Kel | DT[1] | DT[2] | DT[3] | DT[1] | DT[2] | DT[3] | DT[1] | DT[2] | DT[3] | | | | | | |
| Depth (cm) | | | | (0-100) | (0-60) | (60-100) | (0-60) | (60-90) | (0-30) | (0-60) | (60-90) | (0-15) | (0-30) | (0-30) | | | | | | | | | | | | | | | |
| D1 | 438531.588 | 5536799.196 | 421 | 475 | 76 | 100 | 26 | 29 | | 5.7 | 2.7 | 21 | | 135 | 1.42 | 0.46 | 1.05 | 0.26 | 0.11 | 0.11 | 6.6 | 6.0 | | 50 | 43 | 84 | 1.086 | | 56.5 |
| E1 | 438530.645 | 5536731.164 | 475 | 520 | 109 | 125 | 24 | 28 | | 2.5 | 0.6 | 5 | | 165 | 1.17 | 0.30 | 1.07 | 0.16 | 0.09 | 0.11 | 7.2 | 6.9 | 5.9 | 56 | 45 | 87 | 1.086 | | 59.8 |
| F1 | 438529.643 | 5536663.144 | 396 | 442 | 79 | 122 | 19 | 16 | 5.15 | 0.6 | 0.0 | 2 | 159 | 174 | 1.40 | 0.99 | 1.36 | 0.20 | 0.11 | 0.15 | 7.5 | 6.8 | 6.8 | 43 | 36 | 82 | 1.087 | | 60.3 |
| G1 | 438528.756 | 5536595.036 | 414 | 442 | 89 | 182 | 8 | 16 | | 0.7 | 5.7 | 21 | | 103 | 0.65 | 0.32 | 1.26 | 0.26 | 0.15 | 0.36 | 6.7 | 6.8 | 6.9 | 45 | 39 | 89 | 1.082 | | 59.0 |
| H1 | 438527.841 | 5536527.115 | 465 | 502 | 187 | 255 | 9 | 12 | | 3.4 | 2.0 | 22 | | 157 | 0.82 | 0.55 | 1.28 | 0.23 | 0.09 | 0.18 | 8.0 | 9.0 | 8.4 | 45 | 37 | 83 | 1.080 | | 59.0 |
| I1 | 438526.875 | 5536459.222 | 423 | 453 | 95 | 145 | 10 | 10 | 0 | 3.7 | 3.0 | 26 | 224 | 249 | 0.94 | 0.53 | 1.70 | 0.39 | 0.15 | 0.33 | 8.2 | 8.6 | 9.4 | 54 | 47 | 92 | 1.079 | | 61.0 |
| B2 | 438606.003 | 5536900.103 | 430 | 493 | 80 | 97 | 12 | 10 | | 3.2 | 0.6 | 31 | | 255 | 1.84 | 1.44 | 1.60 | 0.71 | 0.33 | 0.34 | 8.4 | 8.6 | 8.2 | 66 | 60 | 96 | 1.078 | | 62.0 |
| C2 | 438605.04 | 5536832.07 | 385 | 428 | 86 | 154 | 11 | 25 | | 7.7 | 2.7 | 32 | | 211 | 0.71 | 0.65 | 0.93 | 0.36 | 0.13 | 0.17 | 7.9 | 8.0 | 6.8 | 62 | 58 | 107 | 1.081 | | 59.0 |
| D2 | 438604.228 | 5536764.072 | 455 | 491 | 115 | 174 | 14 | 31 | 0 | 5.8 | 1.9 | 29 | 193 | 230 | 0.93 | 0.78 | 1.25 | 0.38 | 0.15 | 0.21 | 7.8 | 7.4 | 7.6 | 70 | 63 | 113 | 1.072 | | 58.8 |
| E2 | 438603.286 | 5536696.175 | 388 | 412 | 99 | 171 | 11 | 13 | | 6.4 | 1.6 | 34 | | 181 | 0.30 | 0.16 | 0.53 | 0.36 | 0.15 | 0.15 | 7.7 | 7.8 | 6.7 | 52 | 46 | 101 | 1.080 | | 53.8 |
| F2 | 438602.362 | 5536628.131 | 402 | 458 | 104 | 191 | 6 | 18 | | 1.6 | 1.9 | 22 | | 109 | 0.18 | 0.36 | 1.18 | 0.36 | 0.23 | 0.33 | 6.9 | 6.8 | 6.8 | 55 | 50 | 112 | 1.079 | | 56.0 |
| G2 | 438601.431 | 5536560.217 | 386 | 407 | 110 | 164 | 7 | 27 | | 1.8 | 8.0 | 20 | | 84 | 0.41 | 0.38 | 0.61 | 0.42 | 0.24 | 0.21 | 6.8 | 7.1 | 5.7 | 54 | 46 | 81 | 1.081 | | 60.3 |
| H2 | 438600.605 | 5536492.16 | 420 | 468 | 113 | 189 | 10 | 33 | | 5.0 | 2.8 | 28 | | 164 | 0.48 | 0.58 | 1.04 | 0.39 | 0.20 | 0.22 | 7.5 | 6.9 | 6.1 | 63 | 56 | 88 | 1.079 | | 63.8 |
| I2 | 438599.74 | 5536424.228 | 408 | 423 | 114 | 205 | 7 | 11 | 0 | 2.3 | 3.4 | 26 | 158 | 136 | 0.42 | 0.37 | 1.05 | 0.37 | 0.19 | 0.22 | 7.7 | 7.1 | 7.3 | 49 | 44 | 107 | 1.077 | | 57.3 |
| J2 | 438598.797 | 5536356.45 | 425 | 493 | 72 | 101 | 7 | 17 | | 0.7 | 1.7 | 19 | | 160 | 0.44 | 0.50 | 0.75 | 0.31 | 0.18 | 0.15 | 7.7 | 7.2 | 6.6 | 46 | 40 | 112 | 1.083 | | 61.8 |
| B3 | 438679.351 | 5536933.121 | 466 | 498 | 86 | 144 | 13 | 34 | | 4.1 | 1.0 | 24 | | 190 | 0.90 | 0.77 | 0.93 | 0.22 | 0.09 | 0.12 | 7.6 | 7.9 | 6.2 | 68 | 61 | 97 | 1.086 | | 62.0 |
| C3 | 438678.595 | 5536865.14 | 416 | 443 | 97 | 183 | 11 | 28 | | 3.7 | 1.8 | 21 | | 177 | 0.43 | 0.50 | 1.06 | 0.32 | 0.10 | 0.13 | 7.7 | 7.8 | 7.2 | 63 | 60 | 109 | 1.082 | | 55.0 |
| D3 | 438677.665 | 5536797.213 | 412 | 399 | 100 | 184 | 7 | 9 | | 1.8 | 2.3 | 23 | | 124 | 0.29 | 0.23 | 0.70 | 0.41 | 0.10 | 0.17 | 7.3 | 6.9 | 6.6 | 46 | 42 | 98 | 1.085 | | 60.0 |
| E3 | 438676.925 | 5536729.388 | 386 | 395 | 129 | 180 | 10 | 29 | | 6.9 | 10.7 | 27 | | 154 | 0.68 | 0.49 | 0.86 | 0.38 | 0.10 | 0.16 | 7.4 | 6.9 | 6.6 | 52 | 44 | 99 | 1.078 | | 61.5 |
| F3 | 438676.024 | 5536661.359 | 388 | 428 | 154 | 205 | 8 | 33 | 0 | 1.6 | 2.8 | 24 | 96 | 92 | 0.35 | 0.48 | 0.37 | 0.38 | 0.14 | 0.14 | 7.0 | 5.9 | 6.0 | 41 | 32 | 67 | 1.077 | | 61.3 |
| G3 | 438675.042 | 5536593.392 | 377 | 387 | 257 | 284 | 7 | 6 | | 1.6 | 2.0 | 25 | | 158 | 0.01 | 0.11 | 0.42 | 0.17 | 0.08 | 0.12 | 5.8 | 7.2 | 7.4 | 30 | 19 | 48 | 1.061 | | 64.8 |
| H3 | 438674.216 | 5536525.461 | 408 | 426 | 244 | 273 | 7 | 7 | | 4.5 | 2.4 | 37 | | 131 | 0.04 | 0.06 | 0.18 | 0.25 | 0.09 | 0.15 | 4.9 | 7.1 | 7.2 | 40 | 27 | 56 | 1.072 | | 61.8 |
| I3 | 438673.328 | 5536457.421 | 411 | 399 | 202 | 242 | 7 | 13 | | 2.4 | 1.8 | 2 | | 128 | 0.59 | 0.31 | 0.62 | 0.51 | 0.14 | 0.14 | 7.1 | 7.8 | 7.2 | 45 | 38 | 74 | 1.079 | | 62.3 |
| J3 | 438672.503 | 5536389.524 | 419 | 422 | 94 | 118 | 10 | 15 | 0 | 1.8 | 2.4 | 24 | 161 | 146 | 1.03 | 0.66 | 0.70 | 0.31 | 0.10 | 0.13 | 7.3 | 7.4 | 7.6 | 39 | 34 | 88 | 1.078 | | 55.3 |
| K3 | 438671.534 | 5536321.514 | 417 | 413 | 93 | 112 | 10 | 10 | | 6.9 | 2.9 | 28 | | 172 | 0.63 | 0.41 | 1.05 | 0.27 | 0.09 | 0.14 | 7.4 | 8.0 | 6.9 | 42 | 36 | 82 | 1.075 | | 61.8 |
| A4 | 438752.834 | 5536966.219 | 442 | 495 | 76 | 81 | 9 | 8 | | 3.8 | 2.3 | 26 | | 166 | 0.85 | 0.92 | 1.10 | 0.50 | 0.19 | 0.17 | 7.1 | 7.4 | 5.4 | 58 | 53 | 96 | 1.078 | | 61.3 |
| B4 | 438752.263 | 5536898.3 | 436 | 497 | 82 | 136 | 14 | 40 | | 2.4 | 0.7 | 18 | | 213 | 1.39 | 1.21 | 1.32 | 0.37 | 0.15 | 0.21 | 7.4 | 7.4 | 7.3 | 50 | 44 | 100 | 1.080 | | 59.3 |
| C4 | 438751.451 | 5536830.325 | 470 | 518 | 115 | 181 | 16 | 38 | 0 | 2.5 | 0.7 | 16 | 190 | 205 | 1.40 | 1.48 | 1.57 | 0.38 | 0.19 | 0.25 | 7.5 | 7.1 | 7.2 | 69 | 62 | 92 | 1.082 | | 62.5 |
| D4 | 438750.56 | 5536762.421 | 441 | 479 | 137 | 201 | 8 | 17 | | 1.8 | 4.6 | 16 | | 97 | 0.61 | 0.67 | 1.08 | 0.41 | 0.24 | 0.22 | 6.9 | 6.9 | 5.4 | 61 | 56 | 98 | 1.081 | | 55.5 |
| E4 | 438749.75 | 5536694.55 | 430 | 487 | 144 | 202 | 9 | 15 | | 2.2 | 1.7 | 22 | | 176 | 1.14 | 1.36 | 1.25 | 0.50 | 0.20 | 0.28 | 7.5 | 7.4 | 7.5 | 75 | 68 | 106 | 1.078 | | 63.0 |
| F4 | 438748.917 | 5536626.513 | 422 | 495 | 233 | 218 | 10 | 31 | | 2.6 | 5.9 | 18 | | 144 | 0.13 | 0.27 | 0.47 | 0.29 | 0.14 | 0.20 | 5.7 | 6.8 | 6.3 | 41 | 24 | 57 | 1.082 | | 64.0 |
| G4 | 438748.016 | 5536558.501 | 418 | 468 | 232 | 288 | 8 | 8 | | 4.1 | 1.9 | 24 | | 308 | 0.28 | 0.56 | 0.93 | 0.32 | 0.17 | 0.23 | 6.6 | 7.9 | 6.9 | 48 | 36 | 63 | 1.073 | | 58.5 |
| H4 | 438747.285 | 5536490.606 | 412 | 490 | 167 | 220 | 15 | 30 | | 3.5 | 3.5 | 23 | | 184 | 0.57 | 0.05 | 0.72 | 0.29 | 0.18 | 0.22 | 6.3 | 7.4 | 7.8 | 54 | 42 | 69 | 1.076 | | 53.3 |
| I4 | 438746.373 | 5536422.601 | 439 | 507 | 94 | 144 | 27 | 32 | 0 | 1.1 | 0.7 | 20 | 187 | 178 | 1.48 | 1.13 | 1.38 | 0.37 | 0.19 | 0.24 | 7.4 | 6.7 | 7.5 | 64 | 60 | 105 | 1.080 | | 61.0 |
| J4 | 438745.465 | 5536354.681 | 428 | 493 | 110 | 168 | 29 | 38 | | 4.0 | 0.0 | 12 | | 247 | 2.13 | 1.42 | 1.03 | 0.30 | 0.17 | 0.18 | 7.7 | 7.1 | 7.5 | 60 | 55 | 102 | 1.084 | | 57.5 |
| K4 | 438744.374 | 5536286.5 | 416 | 506 | 72 | 134 | 8 | 30 | | 1.7 | 1.5 | 14 | | 90 | 0.80 | 0.35 | 0.96 | 0.42 | 0.16 | 0.32 | 7.0 | 6.7 | 6.1 | 38 | 30 | 75 | 1.079 | | 59.5 |
| A5 | 438826.358 | 5536999.112 | 512 | 554 | 61 | 80 | 25 | 45 | | 5.6 | 1.5 | 18 | | 176 | 1.40 | 1.70 | 1.55 | 0.75 | 0.29 | 0.19 | 7.5 | 7.2 | 7.9 | 68 | 54 | 127 | 1.077 | 9.0 | |
| B5 | 438825.46 | 5536931.216 | 481 | 514 | 48 | 84 | 27 | 29 | 0 | 1.3 | 0.0 | 13 | 190 | 185 | 0.59 | 0.88 | 0.97 | 0.59 | 0.17 | 0.13 | 7.8 | 7.1 | 7.9 | 71 | 59 | 117 | 1.076 | 8.3 | |
| C5 | 438824.708 | 5536863.288 | 484 | 504 | 70 | 95 | 16 | 37 | | 2.6 | 1.5 | 16 | | 160 | 0.43 | 0.80 | 1.56 | 0.64 | 0.17 | 0.12 | 7.8 | 7.0 | 7.0 | 69 | 46 | 100 | 1.077 | 8.8 | |
| D5 | 438823.788 | 5536795.26 | 466 | 486 | 92 | 108 | 16 | 37 | | 1.9 | 1.3 | 11 | | 113 | 0.38 | 0.65 | 1.34 | 0.60 | 0.16 | 0.13 | 7.8 | 6.7 | 6.6 | 80 | 62 | 119 | 1.078 | 7.5 | |
| E5 | 438822.922 | 5536727.377 | 447 | 451 | 191 | 213 | 8 | 10 | 0 | 3.1 | 3.1 | 19 | 166 | 181 | 0.08 | 0.17 | 0.86 | 0.78 | 0.27 | 0.13 | 7.7 | 7.5 | 6.9 | 55 | 28 | 74 | 1.067 | 8.3 | |
| F5 | 438822.052 | 5536659.395 | 427 | 443 | 173 | 214 | 7 | 11 | | 3.4 | 1.4 | 26 | | 215 | 0.11 | 0.05 | 0.70 | 0.76 | 0.21 | 0.13 | 7.6 | 7.3 | 7.3 | 62 | 30 | 65 | 1.068 | 9.0 | |
| G5 | 438821.264 | 5536591.318 | 406 | 429 | 197 | 217 | 7 | 17 | | 6.8 | 7.3 | 26 | | 112 | 0.03 | 0.05 | 0.33 | 0.71 | 0.23 | 0.14 | 7.2 | 6.4 | 6.4 | 52 | 28 | 70 | 1.072 | 8.0 | |
| H5 | 438820.662 | 5536523.294 | 423 | 475 | 160 | 148 | 10 | 31 | 0 | 2.2 | 1.3 | 24 | 147 | 139 | 0.02 | 0.13 | 0.12 | 0.46 | 0.17 | 0.12 | 6.5 | 7.7 | 7.4 | 0 | | | | | |
| I5 | 438819.477 | 5536455.622 | 450 | 469 | 147 | 121 | 20 | 35 | | 1.7 | 1.7 | 13 | | 278 | 0.10 | 0.02 | 0.15 | 0.23 | 0.09 | 0.08 | 6.3 | 7.4 | 8.0 | 0 | | | | | |
| J5 | 438818.753 | 5536387.448 | 444 | 410 | 129 | 246 | 7 | 8 | | 1.8 | 1.0 | 22 | | 156 | 0.15 | 0.54 | 1.16 | 0.61 | 0.21 | 0.13 | 7.6 | 7.0 | 7.6 | 60 | 41 | 92 | 1.074 | 7.8 | |
| K5 | 438817.96 | 5536319.488 | 424 | 449 | 75 | 129 | 7 | 11 | 0.05 | 0.7 | 1.8 | 15 | 109 | 91 | 0.23 | 0.39 | 1.00 | 0.71 | 0.14 | 0.18 | 7.4 | 7.1 | 6.6 | 46 | 27 | 79 | 1.068 | 8.3 | |
| L5 | 438817.128 | 5536251.791 | 455 | 489 | 83 | 138 | 10 | 25 | | 2.4 | 1.8 | 27 | | 128 | 0.58 | 0.30 | 1.49 | 0.73 | 0.16 | 0.25 | 7.3 | 7.7 | 6.5 | 71 | 47 | 100 | 1.075 | 8.0 | |
| **Means** | | | **428** | **463** | **122** | **168** | **12** | **22** | **0.43** | **3.1** | **2.4** | **21** | **165** | **165** | **0.67** | **0.57** | **0.97** | **0.42** | **0.16** | **0.19** | **7.2** | **7.3** | **7.0** | **53** | **45** | **90** | **1.078** | **8.3** | **59.7** |

**✚ Additional Information, as follows.**

DR – June 19 – September 9, 1998
Kel – Kelowna method
AA – Ammonium Acetate method
DT[1] – July 6, 1998
DT[2] – July 22, 1998
DT[3] – August 10, 1998

# VII. 1999 Fincastle Grid Sample Data

| 1999 Fincastle Site (FL1625) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Position Data | | Moisture | | | | Soil Characteristics | | | | | | | | Petiole Nutrient Contents | | | | | | | | | Hand-Sampled Tuber Data | | | |
| Site | Easting (m) | Northing (m) | Irrigation + Precipitation (mm) | Consumptive Use (mm) | Avaliable Water % | | Clay (%) | | $CaCO_3$ (%) | $NO_3$-N (ppm) | | $PO_4$-P (ppm) | K (ppm) | | $NO_3$-N (%) | | | P (%) | | | K (%) | | | Total Yield (t/ha) | Medium Tuber Yield (t/ha) | Mean Tuber Weight (g) | Specific Gravity |
| Info✚ | | | DR | | | | | | | | | Kel | AA | Kel | DT[1] | DT[2] | DT[3] | DT[1] | DT[2] | DT[3] | DT[1] | DT[2] | DT[3] | | | | |
| Depth (cm) | | | | (0-100) | (0-60) | (60-100) | (0-60) | (60-90) | (0-30) | (0-60) | (60-90) | (0-15) | (0-30) | (0-30) | | | | | | | | | | | | | |
| A1 | 434730.679 | 5528125.947 | 334 | 341 | 105 | 89 | 20 | 21 | 3.6 | 1.7 | 2.3 | 16 | 231 | 143 | 0.33 | 0.38 | 0.34 | 0.50 | 0.17 | 0.16 | 9.6 | 8.0 | 5.4 | 32 | 28 | 117.8 | 1.107 |
| B1 | 434729.205 | 5528082.462 | 317 | 321 | 81 | 76 | 22 | 22 | 3.4 | 0.6 | 0.0 | 12 | 180 | 110 | 0.42 | 0.79 | 1.16 | 0.14 | 0.14 | 0.14 | 9.0 | 7.3 | 5.3 | 35 | 32 | 140.0 | 1.104 |
| C1 | 434727.815 | 5528002.959 | 342 | 347 | 68 | 19 | 17 | 23 | 1.1 | 0.0 | 0.0 | 18 | 165 | 90 | 1.22 | 1.09 | 0.62 | 0.33 | 0.31 | 0.22 | 8.6 | 8.2 | 5.3 | 28 | 23 | 129.4 | 1.104 |
| D1 | 434727.121 | 5527924.325 | 313 | 323 | 76 | 42 | 24 | 36 | 2.0 | 0.3 | 0.0 | 27 | 140 | 80 | 1.12 | 0.85 | 0.61 | 0.41 | 0.24 | 0.22 | 8.8 | 7.8 | 5.3 | 37 | 32 | 137.6 | 1.105 |
| E1 | 434726.007 | 5527843.383 | 310 | | 70 | 56 | 15 | 19 | 1.0 | 0.5 | 0.0 | 63 | 164 | 95 | 1.35 | 1.45 | 1.19 | 0.63 | 0.52 | 0.42 | 9.4 | 8.7 | 5.3 | 35 | 31 | 145.5 | 1.097 |
| F1 | 434724.132 | 5527763.290 | 348 | 335 | 108 | 102 | 12 | 20 | 0.6 | 0.4 | 0.0 | 54 | 136 | 83 | 0.43 | 1.49 | 1.71 | 0.72 | 0.47 | 0.41 | 9.3 | 7.8 | 5.4 | 27 | 26 | 131.6 | 1.098 |
| G1 | 434723.837 | 5527683.163 | 349 | 329 | 109 | 152 | 15 | 33 | 0.4 | 0.5 | 0.5 | 54 | 168 | 108 | 0.85 | 1.16 | 1.77 | 0.67 | 0.51 | 0.39 | 9.5 | 8.7 | 5.3 | 31 | 29 | 148.0 | 1.097 |
| H1 | 434722.733 | 5527603.904 | 346 | 295 | 58 | 19 | 11 | 12 | 0.7 | 0.2 | 0.5 | 43 | 161 | 105 | 0.51 | 0.38 | 0.72 | 0.55 | 0.43 | 0.34 | 9.7 | 8.4 | 5.3 | 33 | 28 | 177.2 | 1.100 |
| I1 | 434721.204 | 5527523.984 | 329 | 341 | 40 | 13 | 17 | 31 | 0.6 | 0.6 | 0.0 | 48 | 145 | 92 | 2.06 | 1.46 | 1.10 | 0.65 | 0.59 | 0.47 | 10.4 | 9.3 | 5.2 | 34 | 31 | 132.4 | 1.099 |
| J1 | 434720.141 | 5527442.917 | 344 | 343 | 67 | 63 | 12 | 22 | 0.4 | 0.2 | 0.0 | 35 | 106 | 67 | 0.72 | 1.07 | 1.27 | 0.62 | 0.48 | 0.43 | 9.6 | 8.2 | 5.3 | 42 | 31 | 167.6 | 1.097 |
| K1 | 434720.093 | 5527389.989 | 301 | 391 | 41 | 55 | 12 | 18 | 0.6 | 1.7 | 3.9 | 46 | 203 | 133 | 0.20 | 0.12 | 0.95 | 0.63 | 0.42 | 0.27 | 10.1 | 9.2 | 5.3 | 34 | 31 | 117.7 | 1.103 |
| A2 | 434821.375 | 5528111.025 | 356 | 352 | 159 | 147 | 26 | 28 | 4.6 | 1.4 | 0.7 | 12 | 196 | 118 | 0.93 | 0.48 | 0.66 | 0.29 | 0.17 | 0.16 | 9.8 | 8.1 | 5.3 | 31 | 28 | 121.5 | 1.105 |
| B2 | 434819.845 | 5528041.725 | 327 | 350 | 98 | 35 | 23 | 20 | 6.3 | 0.4 | 0.0 | 19 | 138 | 78 | 1.22 | 0.74 | 0.52 | 0.29 | 0.21 | 0.23 | 8.2 | 7.4 | 5.7 | 36 | 26 | 145.6 | 1.111 |
| C2 | 434818.367 | 5527960.253 | 330 | 342 | 28 | 19 | 24 | 22 | 9.8 | 0.2 | 0.0 | 14 | 118 | 64 | 1.16 | 0.91 | 0.80 | 0.15 | 0.16 | 0.17 | 8.0 | 6.7 | 4.9 | 33 | 28 | 132.1 | 1.110 |
| D2 | 434817.490 | 5527881.581 | 312 | 336 | 40 | 10 | 24 | 26 | 6.4 | 1.1 | 0.8 | 48 | 129 | 71 | 1.08 | 1.04 | 0.78 | 0.47 | 0.24 | 0.21 | 9.2 | 8.0 | 5.0 | 39 | 29 | 188.4 | 1.100 |
| E2 | 434816.193 | 5527802.046 | 362 | 343 | 52 | 32 | 19 | 22 | 2.7 | 1.1 | 0.6 | 48 | 122 | 67 | 1.53 | 1.54 | 1.30 | 0.59 | 0.56 | 0.54 | 8.8 | 7.8 | 5.3 | 33 | 28 | 144.8 | 1.097 |
| F2 | 434815.005 | 5527721.508 | 277 | 293 | 51 | 46 | 13 | 19 | 0.8 | 0.8 | 4.7 | 56 | 152 | 87 | 0.56 | 0.94 | 0.80 | 0.64 | 0.50 | 0.39 | 9.9 | 8.4 | 5.0 | 47 | 33 | 179.0 | 1.097 |
| G2 | 434813.753 | 5527640.814 | 301 | 298 | 56 | 55 | 13 | 20 | 1.5 | 0.6 | 13.4 | 54 | 169 | 100 | 0.57 | 1.24 | 1.33 | 0.68 | 0.53 | 0.43 | 10.0 | 8.9 | 5.3 | 47 | 34 | 185.5 | 1.099 |
| H2 | 434812.930 | 5527561.976 | 287 | 307 | 39 | 48 | 11 | 16 | 1.0 | 0.8 | 7.1 | 46 | 131 | 80 | 0.37 | 0.41 | 0.99 | 0.62 | 0.48 | 0.28 | 9.8 | 8.6 | 5.0 | 39 | 34 | 148.9 | 1.102 |
| I2 | 434811.710 | 5527482.351 | 326 | 332 | 47 | 30 | 11 | 14 | 1.3 | 0.2 | 0.0 | 35 | 103 | 55 | 0.31 | 0.25 | 0.40 | 0.62 | 0.42 | 0.23 | 9.6 | 8.1 | 5.3 | 37 | 31 | 156.8 | 1.113 |
| J2 | 434810.697 | 5527412.397 | 341 | 368 | 14 | -15 | 12 | 12 | 1.0 | 0.2 | 0.7 | 44 | 121 | 70 | 0.76 | 0.49 | 0.78 | 0.68 | 0.49 | 0.33 | 10.1 | 8.5 | 5.3 | 39 | 33 | 140.0 | 1.104 |
| A3 | 434892.218 | 5528136.163 | 224 | 209 | 112 | 100 | 22 | 26 | 4.2 | 10.7 | 1.7 | 50 | 247 | 157 | 0.58 | 0.62 | 1.01 | 0.40 | 0.19 | 0.18 | 9.6 | 8.2 | 5.4 | 34 | 27 | 98.3 | 1.101 |
| B3 | 434891.082 | 5528081.190 | 424 | 400 | 143 | 209 | 28 | 36 | 2.7 | 0.4 | 0.0 | 20 | 178 | 95 | 1.57 | 0.83 | 0.53 | 0.29 | 0.19 | 0.20 | 8.9 | 7.9 | 4.0 | 45 | 35 | 143.5 | 1.103 |
| C3 | 434890.411 | 5528001.030 | 346 | 352 | 78 | 31 | 22 | 22 | 3.1 | 0.3 | 0.0 | 18 | 125 | 73 | 0.72 | 0.66 | 0.34 | 0.30 | 0.17 | 0.25 | 8.5 | 7.4 | 4.0 | 37 | 33 | 119.2 | 1.105 |
| D3 | 434888.758 | 5527920.383 | 278 | 268 | 58 | 19 | 16 | 19 | 1.2 | 0.2 | 0.0 | 26 | 155 | 85 | 0.97 | 0.89 | 0.95 | 0.45 | 0.28 | 0.29 | 9.1 | 8.2 | 3.9 | 35 | 30 | 122.3 | 1.100 |
| E3 | 434887.428 | 5527842.011 | 329 | 343 | 68 | 133 | 19 | 28 | 1.9 | 3.0 | 1.8 | 56 | 143 | 76 | 2.00 | 1.57 | 1.47 | 0.51 | 0.44 | 0.41 | 9.6 | 7.8 | 4.0 | 42 | 36 | 147.6 | 1.090 |
| F3 | 434886.304 | 5527761.250 | 291 | | 34 | 2 | 11 | 23 | 0.6 | 1.0 | 14.3 | 53 | 120 | 70 | 0.20 | 0.85 | 0.98 | 0.56 | 0.49 | 0.45 | 9.1 | 7.8 | 4.0 | 45 | 32 | 150.4 | 1.095 |
| G3 | 434885.096 | 5527681.959 | 276 | 253 | 63 | 14 | 12 | 20 | 0.8 | 1.3 | 11.7 | 59 | 153 | 92 | 0.52 | 0.77 | 0.93 | 0.60 | 0.44 | 0.44 | 9.7 | 8.2 | 3.9 | 47 | 38 | 159.6 | 1.098 |
| H3 | 434884.016 | 5527601.598 | 352 | 333 | 63 | 121 | 10 | 12 | 0.6 | 0.8 | 4.9 | 52 | 138 | 88 | 0.44 | 0.28 | 0.43 | 0.68 | 0.46 | 0.38 | 9.6 | 8.0 | 4.0 | 44 | 37 | 135.8 | 1.100 |
| I3 | 434882.794 | 5527522.059 | 289 | 282 | 57 | 99 | 10 | 10 | 0.6 | 0.8 | 2.8 | 65 | 137 | 92 | 0.64 | 0.42 | 0.68 | 0.69 | 0.43 | 0.37 | 9.9 | 8.5 | 4.0 | 36 | 32 | 169.1 | 1.100 |
| J3 | 434881.429 | 5527441.844 | 324 | 307 | 82 | 90 | 11 | 15 | 0.5 | 1.7 | 13.0 | 63 | 159 | 108 | 1.23 | 0.71 | 1.15 | 0.66 | 0.42 | 0.44 | 10.0 | 8.7 | 3.7 | 20 | 17 | 149.8 | 1.090 |
| K3 | 434880.339 | 5527386.710 | 418 | | 61 | 115 | 10 | 19 | 0.5 | 1.4 | 7.0 | 67 | 199 | 141 | 0.18 | 0.46 | 0.64 | 0.80 | 0.45 | 0.40 | 10.3 | 8.9 | 3.6 | 39 | 34 | 136.4 | 1.102 |
| A4 | 434975.144 | 5528110.152 | 235 | 208 | 57 | 92 | 19 | 23 | 0.8 | 0.7 | 0.0 | 39 | 233 | 129 | 1.86 | 1.14 | 1.16 | 0.37 | 0.22 | 0.16 | 9.1 | 8.4 | 3.9 | 34 | 27 | 117.1 | 1.096 |
| B4 | 434974.128 | 5528040.093 | 263 | 289 | 131 | 110 | 35 | 29 | 4.2 | 0.9 | 0.6 | 16 | 139 | 75 | 1.74 | 1.09 | 0.45 | 0.29 | 0.22 | 0.16 | 8.5 | 7.8 | 3.9 | 38 | 29 | 126.8 | 1.106 |
| C4 | 434972.866 | 5527960.541 | 287 | 302 | 63 | 61 | 15 | 22 | 0.7 | 1.9 | 2.8 | 24 | 174 | 102 | 1.14 | 1.14 | 0.86 | 0.58 | 0.33 | 0.29 | 9.6 | 8.5 | 4.3 | 37 | 32 | 132.3 | 1.102 |
| D4 | 434971.754 | 5527880.276 | 299 | 321 | 50 | 31 | 18 | 21 | 1.0 | 1.1 | 0.8 | 39 | 146 | 85 | 1.77 | 1.83 | 1.58 | 0.50 | 0.50 | 0.50 | 8.8 | 8.2 | 3.7 | 37 | 32 | 131.6 | 1.090 |
| E4 | 434970.519 | 5527800.434 | 250 | 282 | 33 | 6 | 10 | 10 | 0.5 | 1.9 | 14.3 | 63 | 137 | 86 | 1.12 | 0.44 | 0.80 | 0.63 | 0.51 | 0.35 | 10.3 | 9.3 | 3.8 | 42 | 39 | 128.4 | 1.106 |
| F4 | 434969.323 | 5527720.352 | 270 | 283 | 24 | 38 | 12 | 16 | 0.6 | 3.0 | 10.4 | 56 | 157 | 98 | 0.95 | 0.72 | 0.97 | 0.55 | 0.48 | 0.35 | 9.8 | 8.7 | 3.6 | 43 | 26 | 177.5 | 1.094 |
| G4 | 434967.996 | 5527640.531 | 275 | 258 | 31 | 58 | 13 | 22 | 0.7 | 1.3 | 20.7 | 52 | 144 | 85 | 0.85 | 0.99 | 0.82 | 0.66 | 0.53 | 0.48 | 10.2 | 8.7 | 3.6 | 44 | 30 | 123.2 | 1.097 |
| H4 | 434966.619 | 5527560.295 | 387 | 353 | 52 | 62 | 11 | 16 | 0.8 | 0.9 | 4.6 | 42 | 139 | 87 | 0.55 | 0.33 | 0.40 | 0.74 | 0.49 | 0.42 | 10.2 | 8.5 | 3.8 | 46 | 43 | 113.5 | 1.099 |
| I4 | 434965.319 | 5527480.535 | 261 | 253 | 32 | 46 | 10 | 12 | 0.5 | 4.7 | 12.4 | 53 | 169 | 113 | 0.64 | 0.41 | 0.56 | 0.70 | 0.40 | 0.30 | 10.4 | 8.6 | 3.7 | 41 | 37 | 149.0 | 1.099 |
| J4 | 434963.881 | 5527410.613 | 283 | 267 | 37 | 93 | 12 | 21 | 1.0 | 8.0 | 29.8 | 46 | 169 | 106 | 1.45 | 1.50 | 1.51 | 0.67 | 0.49 | 0.44 | 10.8 | 8.8 | 3.9 | 45 | 41 | 127.4 | 1.088 |
| B5 | 435050.858 | 5528079.374 | 158 | 166 | 66 | 102 | 31 | 30 | 4.3 | 23.6 | 8.3 | 23 | 188 | 111 | 1.94 | 1.72 | 1.68 | 0.25 | 0.24 | 0.22 | 8.6 | 8.1 | 4.0 | 36 | 32 | 144.8 | 1.103 |
| C5 | 435050.299 | 5527999.572 | 281 | 316 | 47 | 1 | 22 | 22 | 13.2 | 1.4 | 1.3 | 20 | 146 | 93 | 1.49 | 1.22 | 1.27 | 0.25 | 0.21 | 0.22 | 8.8 | 8.3 | 3.7 | 27 | 26 | 126.4 | 1.106 |
| D5 | 435049.829 | 5527919.449 | 257 | 248 | 67 | 67 | 31 | 37 | 1.1 | 1.9 | 1.2 | 22 | 205 | 119 | 1.92 | 1.57 | 1.48 | 0.35 | 0.28 | 0.35 | 9.1 | 8.6 | 3.5 | 38 | 29 | 139.0 | 1.093 |
| E5 | 435048.239 | 5527839.823 | 329 | 329 | -10 | 41 | 13 | 24 | 0.8 | 4.5 | 18.4 | 72 | 150 | 92 | 0.50 | 0.92 | 1.17 | 0.64 | 0.51 | 0.49 | 10.4 | 8.5 | 3.7 | 40 | 31 | 173.4 | 1.099 |
| F5 | 435046.776 | 5527759.335 | 301 | 308 | 30 | 39 | 10 | 17 | 1.0 | 2.0 | 4.6 | 70 | 193 | 120 | 1.01 | 0.42 | 0.53 | 0.64 | 0.49 | 0.46 | 10.8 | 9.8 | 3.6 | 43 | 36 | 153.2 | 1.098 |
| G5 | 435045.437 | 5527678.991 | 314 | 306 | 57 | 81 | 13 | 25 | 0.8 | 2.1 | 12.1 | 78 | 256 | 168 | 0.96 | 0.87 | 1.02 | 0.70 | 0.58 | 0.47 | 10.7 | 9.8 | 3.4 | 31 | 28 | 110.9 | 1.098 |
| H5 | 435044.123 | 5527599.538 | 360 | 380 | 28 | 31 | 10 | 11 | 1.1 | 2.1 | 13.5 | 40 | 214 | 146 | 0.54 | 0.03 | 0.03 | 0.81 | 0.53 | 0.51 | 10.1 | 8.9 | 3.8 | 44 | 36 | 148.0 | 1.106 |
| I5 | 435042.906 | 5527519.281 | 279 | 317 | 9 | 9 | 10 | 11 | 0.9 | 6.4 | 22.0 | 43 | 384 | 278 | 0.46 | 0.12 | 0.07 | 0.69 | 0.50 | 0.38 | 10.1 | 9.5 | 3.5 | 38 | 34 | 112.0 | 1.101 |
| J5 | 435041.392 | 5527458.930 | 219 | 204 | 28 | 35 | 11 | 25 | 1.0 | 23.9 | 52.1 | 59 | 293 | 201 | 1.45 | 0.86 | 1.03 | 0.73 | 0.56 | 0.60 | 10.7 | 9.8 | 3.1 | 40 | 39 | 142.6 | 1.099 |
| **Means** | | | **308** | **309** | **60** | **59** | **16** | **21** | **2.0** | **2.5** | **6.3** | **43** | **168** | **103** | **0.96** | **0.86** | **0.91** | **0.54** | **0.39** | **0.34** | **9.6** | **8.4** | **4.4** | **38** | **31** | **141.1** | **1.100** |

**✚ Additional Information, as follows.**
DR – July 2 – September 3, 1999
Kel – Kelowna method
AA – Ammonium Acetate method
DT[1] – July 9, 1999
DT[2] – July 28, 1999
DT[3] – August 13, 1999

# VIII. 1999 Hays Grid Sample Data

**1999 Hays Site (Snowden)**

| Site | Position Data: Easting (m) | Position Data: Northing (m) | Moisture: Irrigation + Precipitation (mm) | Moisture: Consumptive Use (mm) | Moisture: Avaliable Water % | | Soil Characteristics: Clay (%) | | Soil Characteristics: $CaCO_3$ (%) | Soil Characteristics: $NO_3$-N (ppm) | | Soil Characteristics: $PO_4$-P (ppm) | Soil Characteristics: K (ppm) | | Petiole Nutrient Contents: $NO_3$-N (%) | | | Petiole Nutrient Contents: P (%) | | | Petiole Nutrient Contents: K (%) | | | Hand-Sampled Tuber Data: Total Yield (t/ha) | Hand-Sampled Tuber Data: Medium Tuber Yield (t/ha) | Hand-Sampled Tuber Data: Mean Tuber Weight (g) | Hand-Sampled Tuber Data: Opacity | Hand-Sampled Tuber Data: Specific Gravity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Info✚ | | | DR | | | | | | | | | Kel | AA | Kel | DT[1] | DT[2] | DT[3] | DT[1] | DT[2] | DT[3] | DT[1] | DT[2] | DT[3] | | | | | |
| Depth (cm) | | | | (0-100) | (0-60) | (60-100) | (0-60) | (60-90) | (0-30) | (0-60) | (60-90) | (0-15) | (0-30) | (0-30) | | | | | | | | | | | | | | |
| A1 | 438901.353 | 5537802.739 | 202 | 287 | 94 | 75 | 36 | 42 | 1.6 | 0.39 | 0.00 | 24 | 485 | 282 | 1.59 | 1.15 | 0.27 | 0.23 | 0.14 | 0.09 | 9.6 | 5.4 | 4.8 | 30 | 26 | 114.5 | 59.70 | 1.097 |
| B1 | 438900.519 | 5537742.303 | 198 | 319 | 49 | 76 | 31 | 32 | 1.4 | 0.88 | 0.00 | 19 | 237 | 168 | 1.22 | 0.64 | 0.71 | 0.20 | 0.12 | 0.10 | 9.0 | 5.3 | 4.6 | 28 | 26 | 93.9 | 60.50 | 1.098 |
| C1 | 438899.251 | 5537654.886 | 202 | 302 | 12 | 19 | 6 | 5 | 2.1 | 0.00 | 0.00 | 22 | 157 | 196 | 0.27 | 0.85 | 0.04 | 0.22 | 0.14 | 0.12 | 9.4 | 5.4 | 4.7 | 31 | 30 | 105.0 | 61.48 | 1.100 |
| D1 | 438898.355 | 5537577.275 | 202 | 286 | 139 | 94 | 8 | 18 | 2.8 | 1.34 | 2.98 | 25 | 258 | 204 | 1.98 | 1.32 | 1.09 | 0.30 | 0.22 | 0.19 | 10.8 | 5.1 | 4.6 | 30 | 25 | 91.8 | 59.96 | 1.099 |
| E1 | 438897.233 | 5537499.906 | 207 | 294 | 162 | 198 | 7 | 14 | 1.3 | 0.72 | 7.06 | 18 | 185 | 118 | 0.66 | 0.19 | 0.18 | 0.30 | 0.12 | 0.12 | 10.1 | 5.3 | 4.4 | 41 | 35 | 116.3 | 59.96 | 1.102 |
| F1 | 438896.412 | 5537422.836 | 190 | 312 | 145 | 185 | 7 | 10 | 0.9 | 0.52 | 12.70 | 19 | 117 | 91 | 0.76 | 0.31 | 0.01 | 0.23 | 0.42 | 0.24 | 8.9 | 5.3 | 4.6 | 24 | 21 | 84.4 | 58.99 | 1.110 |
| G1 | 438895.245 | 5537345.214 | 191 | 223 | 198 | 204 | 7 | 12 | 1.1 | 0.31 | 0.51 | 21 | 148 | 95 | 1.22 | 0.37 | 0.38 | 0.19 | 0.09 | 0.14 | 10.6 | 5.3 | 4.7 | 28 | 21 | 62.0 | 60.56 | 1.094 |
| H1 | 438894.223 | 5537268.288 | 225 | 302 | 115 | 136 | 7 | 14 | 0.8 | 0.00 | 0.00 | 21 | 121 | 151 | 1.30 | 1.19 | 0.90 | 0.16 | 0.12 | 0.10 | 8.3 | 5.3 | 4.6 | 50 | 45 | 100.9 | 61.78 | 1.090 |
| I1 | 438893.407 | 5537190.871 | 235 | 292 | 140 | 117 | 11 | 31 | 1.2 | 3.17 | 1.25 | 30 | 261 | 160 | 1.21 | 0.62 | 0.06 | 0.20 | 0.19 | 0.09 | 10.3 | 5.3 | 4.7 | 45 | 40 | 91.5 | 60.52 | 1.094 |
| J1 | 438892.435 | 5537113.489 | 214 | 343 | 131 | 218 | 11 | 28 | 0.5 | 0.00 | 0.67 | 21 | 120 | 122 | 0.38 | 1.31 | 0.00 | 0.23 | 0.20 | 0.10 | 9.7 | 5.3 | 4.7 | 30 | 27 | 97.6 | 60.16 | 1.110 |
| K1 | 438891.946 | 5537045.230 | 221 | 308 | 98 | 162 | 16 | 19 | 0.4 | 0.53 | 0.00 | 21 | 155 | 187 | 1.59 | 1.75 | 1.39 | 0.18 | 0.20 | 0.13 | 9.7 | 5.3 | 4.8 | 37 | 32 | 107.8 | 60.69 | 1.091 |
| C2 | 438953.123 | 5537770.223 | 208 | 266 | 106 | 108 | 28 | 50 | 0.8 | 0.95 | 0.00 | 25 | 262 | 206 | 1.43 | 1.37 | 0.95 | 0.17 | 0.13 | 0.10 | 8.3 | 5.3 | 4.3 | 24 | 35 | 175.9 | 61.10 | 1.101 |
| D2 | 438952.023 | 5537693.018 | 205 | 284 | 65 | 91 | 19 | 40 | 1.0 | 0.00 | 0.00 | 23 | 189 | 189 | 0.78 | 1.30 | 0.65 | 0.19 | 0.14 | 0.10 | 9.3 | 4.9 | 4.7 | 18 | 17 | 79.0 | 60.63 | 1.109 |
| E2 | 438951.139 | 5537615.713 | 219 | 315 | 46 | 96 | 20 | 31 | 0.7 | 0.57 | 0.79 | 28 | 211 | 199 | 1.48 | 0.61 | 0.23 | 0.24 | 0.15 | 0.10 | 10.4 | 5.2 | 4.7 | 16 | 35 | 88.5 | 55.57 | 1.097 |
| F2 | 438950.097 | 5537538.058 | 200 | 294 | 66 | 99 | 9 | 9 | 0.6 | 1.44 | 8.44 | 34 | 207 | 162 | 1.34 | 0.34 | 0.02 | 0.36 | 0.15 | 0.11 | 10.6 | 2.7 | 4.7 | 20 | 37 | 111.6 | 56.35 | 1.095 |
| G2 | 438949.070 | 5537461.360 | 191 | 232.5 | 131 | 137 | 11 | 9 | 0.5 | 0.43 | 0.91 | 26 | 128 | 107 | 0.99 | 0.21 | 0.00 | 0.26 | 0.12 | 0.09 | 10.6 | 2.6 | 4.7 | 19 | 33 | 117.3 | 59.68 | 1.101 |
| H2 | 438947.981 | 5537383.411 | 190 | 239 | 198 | 234 | 14 | 11 | 0.8 | 0.00 | 1.03 | 29 | 97 | 91 | 1.30 | 0.12 | 0.00 | 0.26 | 0.17 | 0.11 | 10.3 | 2.5 | 4.8 | 22 | 33 | 125.9 | 57.55 | 1.095 |
| I2 | 438947.748 | 5537306.217 | 183 | 270.5 | 127 | 144 | 12 | 25 | 0.5 | 0.00 | 1.08 | 18 | 129 | 91 | 1.04 | 0.14 | 0.01 | 0.28 | 0.16 | 0.10 | 9.7 | 2.4 | 4.7 | 29 | 40 | 152.9 | 60.06 | 1.098 |
| J2 | 438946.142 | 5537228.829 | 183 | 217 | 178 | 181 | 8 | 9 | 0.7 | 0.00 | 2.02 | 19 | 112 | 106 | 1.19 | 0.04 | 0.00 | 0.28 | 0.13 | 0.10 | 10.5 | 2.6 | 4.8 | 26 | 38 | 92.4 | 61.43 | 1.100 |
| K2 | 438945.078 | 5537151.613 | 187 | 217.5 | 186 | 164 | 18 | 24 | 1.1 | 0.82 | 0.97 | 18 | 149 | 119 | 1.53 | 0.04 | 0.00 | 0.42 | 0.15 | 0.13 | 10.4 | 2.7 | 5.6 | 18 | 12 | 41.4 | 57.08 | 1.108 |
| L2 | 438944.151 | 5537074.166 | 197 | 283 | 106 | 119 | 19 | 22 | 1.9 | 1.08 | 1.10 | 18 | 136 | 184 | 1.58 | 0.89 | 0.27 | 0.21 | 0.15 | 0.12 | 8.4 | 2.6 | 4.7 | 21 | 36 | 88.4 | 58.01 | 1.092 |
| A3 | 439028.024 | 5537801.346 | 184 | 214 | 90 | 80 | 27 | 38 | 0.4 | 1.23 | 0.00 | 21 | 302 | 217 | 1.79 | 0.60 | 1.06 | 0.27 | 0.16 | 0.13 | 9.5 | 2.6 | 4.6 | 21 | 36 | 95.1 | 61.69 | 1.093 |
| B3 | 439026.928 | 5537730.751 | 230 | 288 | 34 | 93 | 11 | 14 | 0.8 | 0.40 | 0.00 | 23 | 222 | 175 | 1.34 | 1.20 | 0.56 | 0.36 | 0.17 | 0.11 | 9.4 | 5.7 | 4.7 | 29 | 32 | 112.9 | 59.76 | 1.101 |
| C3 | 439025.803 | 5537651.912 | 204 | 280 | 78 | 111 | 39 | 41 | 0.8 | 0.94 | 0.00 | 22 | 220 | 139 | 1.83 | 1.35 | 1.20 | 0.24 | 0.13 | 0.11 | 8.8 | 5.3 | 4.2 | 21 | 30 | 101.9 | 57.27 | 1.093 |
| D3 | 439024.693 | 5537576.041 | 206 | 290.5 | 30 | 112 | 7 | 11 | 0.7 | 0.00 | 0.00 | 20 | 140 | 114 | 1.09 | 0.28 | 0.02 | 0.42 | 0.22 | 0.13 | 9.3 | 5.8 | 4.7 | 20 | 30 | 98.9 | 62.61 | 1.099 |
| E3 | 439023.847 | 5537498.624 | 224 | 316.5 | 107 | 221 | 7 | 17 | 0.8 | 0.00 | 1.21 | 21 | 149 | 189 | 1.62 | 0.49 | 0.04 | 0.35 | 0.17 | 0.13 | 8.9 | 5.7 | 4.7 | 27 | 46 | 116.0 | 61.21 | 1.099 |
| F3 | 439022.916 | 5537421.286 | 183 | 225 | 213 | 127 | 12 | 21 | 0.3 | 1.80 | 0.98 | 29 | 349 | 183 | 2.65 | 1.08 | 1.14 | 0.38 | 0.20 | 0.28 | 10.8 | 5.9 | 3.6 | 23 | 35 | 82.2 | 60.96 | 1.089 |
| G3 | 439021.796 | 5537343.987 | 184 | 275 | 134 | 128 | 11 | 19 | 0.7 | 1.35 | 0.94 | 18 | 153 | 95 | 1.65 | 0.69 | 0.19 | 0.42 | 0.21 | 0.15 | 10.0 | 5.8 | 4.7 | 30 | 46 | 135.4 | 60.49 | 1.095 |
| H3 | 439020.753 | 5537266.777 | 192 | 275.5 | 162 | 243 | 15 | 43 | 0.4 | 0.77 | 0.57 | 24 | 129 | 91 | 1.99 | 1.07 | 0.44 | 0.31 | 0.16 | 0.14 | 9.7 | 5.8 | 4.6 | 25 | 43 | 90.7 | 57.59 | 1.095 |
| I3 | 439019.930 | 5537189.617 | 197 | 234.5 | 186 | 241 | 11 | 20 | 1.0 | 3.25 | 9.33 | 27 | 117 | 114 | 2.81 | 0.85 | 0.41 | 0.43 | 0.20 | 0.17 | 10.1 | 5.8 | 4.7 | 22 | 34 | 142.4 | 58.22 | 1.095 |
| J3 | 439019.162 | 5537111.949 | 196 | 246.5 | 192 | 200 | 11 | 15 | 1.0 | 0.55 | 2.23 | 29 | 146 | 186 | 2.85 | 0.38 | 0.61 | 0.43 | 0.16 | 0.17 | 10.6 | 5.8 | 4.4 | 24 | 39 | 92.3 | 61.38 | 1.098 |
| K3 | 439018.309 | 5537046.828 | 136 | 220.5 | 135 | 176 | 25 | 36 | 0.9 | 2.92 | 2.42 | 29 | 237 | 178 | 2.77 | 2.14 | 1.51 | 0.52 | 0.28 | 0.20 | 11.0 | 5.7 | 3.9 | 20 | 34 | 92.1 | 59.26 | 1.096 |
| B4 | 439105.437 | 5537768.650 | 254 | 299.5 | 101 | 175 | 30 | 46 | 1.1 | 1.06 | 0.00 | 17 | 172 | 114 | 1.63 | 1.47 | 1.06 | 0.22 | 0.13 | 0.09 | 8.4 | 5.6 | 4.4 | 24 | 22 | 110.8 | 62.16 | 1.101 |
| C4 | 439104.332 | 5537691.258 | 236 | 283 | 105 | 196 | 11 | 32 | 0.5 | 1.33 | 0.86 | 21 | 141 | 88 | 1.97 | 1.36 | 0.73 | 0.42 | 0.23 | 0.14 | 9.0 | 5.6 | 4.7 | 30 | 29 | 103.0 | 60.76 | 1.096 |
| D4 | 439103.144 | 5537613.871 | 204 | 275 | 49 | 168 | 9 | 25 | 0.6 | 0.88 | 0.66 | 31 | 96 | 75 | 1.58 | 1.07 | 0.19 | 0.43 | 0.25 | 0.15 | 9.0 | 5.6 | 4.5 | 20 | 19 | 93.7 | 62.31 | 1.103 |
| E4 | 439102.189 | 5537536.393 | 213 | 247 | 148 | 150 | 15 | 23 | 0.4 | 4.21 | 8.48 | 21 | 119 | 83 | 2.50 | 0.37 | 0.05 | 0.51 | 0.27 | 0.20 | 10.7 | 5.9 | 4.4 | 20 | 16 | 63.8 | 60.59 | 1.095 |
| F4 | 439101.235 | 5537459.127 | 211 | 296 | 94 | 135 | 21 | 37 | 0.4 | 0.93 | 0.00 | 15 | 132 | 73 | .1.60 | 1.18 | 0.66 | 0.23 | 0.17 | 0.12 | 8.7 | 5.8 | 4.6 | 27 | 26 | 111.4 | 61.43 | 1.098 |
| G4 | 439100.034 | 5537381.661 | 202 | 263 | 23 | 59 | 12 | 32 | 0.5 | 1.24 | 0.53 | 5 | 125 | 60 | 1.36 | 1.26 | 0.80 | 0.44 | 0.27 | 0.18 | 9.4 | 5.9 | 4.4 | 22 | 20 | 137.9 | 61.49 | 1.095 |
| H4 | 439099.090 | 5537304.598 | 191 | 247 | 30 | 140 | 17 | 39 | 0.6 | 0.43 | 0.00 | 12 | 90 | 85 | 1.02 | 1.04 | 0.60 | 0.27 | 0.15 | 0.12 | 8.2 | 5.4 | 3.6 | 16 | 14 | 78.4 | 60.83 | 1.106 |
| I4 | 439098.094 | 5537227.026 | 193 | 279 | 35 | 88 | 12 | 32 | 0.4 | 1.58 | 1.54 | 25 | 170 | 138 | 1.91 | 1.17 | 0.69 | 0.29 | 0.20 | 0.15 | 8.9 | 5.8 | 4.4 | 35 | 29 | 154.8 | 59.53 | 1.093 |
| J4 | 439097.389 | 5537149.713 | 198 | 276 | 73 | 125 | 11 | 28 | 0.5 | 0.73 | 0.75 | 16 | 225 | 153 | 1.49 | 1.16 | 0.61 | 0.25 | 0.17 | 0.12 | 9.4 | 5.9 | 4.4 | 23 | 23 | 135.0 | 59.85 | 1.094 |
| K4 | 439092.546 | 5537072.361 | 181 | 242 | 60 | 162 | 17 | 39 | 0.6 | 0.87 | 0.53 | 21 | 191 | 108 | 1.92 | 1.42 | 0.84 | 0.37 | 0.18 | 0.15 | 9.8 | 5.9 | 4.4 | 30 | 29 | 124.5 | 61.55 | 1.100 |
| C5 | 439181.201 | 5537649.607 | 207 | 302.5 | -13 | 50 | 8 | 30 | 0.3 | 1.15 | 0.00 | 14 | 104 | 82 | 1.65 | 0.79 | 0.43 | 0.48 | 0.17 | 0.16 | 9.4 | 5.8 | 4.1 | 19 | 19 | 104.7 | 63.54 | 1.106 |
| D5 | 439179.149 | 5537574.110 | 213 | 267 | 17 | 76 | 7 | 8 | 0.8 | 0.52 | 0.00 | 20 | 140 | 83 | 1.61 | 0.71 | 0.17 | 0.55 | 0.18 | 0.14 | 9.9 | 5.9 | 4.4 | 12 | 11 | 109.6 | 58.89 | 1.108 |
| E5 | 439178.921 | 5537496.708 | 203 | 204 | 18 | 77 | 24 | 47 | 0.4 | 0.91 | 0.54 | 15 | 112 | 98 | 1.72 | 1.32 | 0.93 | 0.34 | 0.16 | 0.14 | 8.5 | 5.4 | 3.6 | 24 | 16 | 127.0 | 60.26 | 1.097 |
| F5 | 439178.087 | 5537419.385 | 189 | 181 | 56 | 132 | 25 | 44 | 0.7 | 1.50 | 0.61 | 19 | 159 | 108 | 1.69 | 1.52 | 1.04 | 0.32 | 0.16 | 0.13 | 8.8 | 5.5 | 3.8 | 25 | 24 | 127.1 | 58.50 | 1.097 |
| G5 | 439177.265 | 5537342.207 | 202 | 241 | 59 | 136 | 13 | 36 | 0.0 | 0.80 | 0.60 | 13 | 150 | 93 | 1.78 | 1.20 | 0.85 | 0.41 | 0.19 | 0.15 | 9.6 | 5.7 | 4.3 | 24 | 22 | 106.4 | 58.45 | 1.098 |
| H5 | 439176.047 | 5537264.613 | 213 | 329.5 | 41 | 113 | 10 | 36 | 0.4 | 0.64 | 0.64 | 16 | 123 | 87 | 1.61 | 1.19 | 0.52 | 0.41 | 0.20 | 0.14 | 9.0 | 5.5 | 4.0 | 19 | 16 | 91.1 | 58.39 | 1.101 |
| I5 | 439174.920 | 5537187.333 | 128 | 357 | 2 | 0 | 11 | 36 | 0.3 | 0.71 | 0.83 | 17 | 144 | 85 | 1.70 | 1.12 | 0.59 | 0.48 | 0.20 | 0.18 | 9.9 | 5.6 | 4.4 | 19 | 18 | 56.3 | 58.16 | 1.100 |
| E6 | 439256.758 | 5537534.400 | 155 | 191 | 1 | 44 | 19 | 40 | 1.0 | 2.57 | 8.63 | 19 | 124 | 96 | 2.26 | 1.97 | 1.25 | 0.52 | 0.18 | 0.14 | 9.4 | 5.4 | 4.0 | 16 | 16 | 101.3 | 62.44 | 1.110 |
| F6 | 439256.500 | 5537457.460 | 167 | 266 | 45 | 90 | 18 | 52 | 0.2 | 1.53 | 0.87 | 19 | 153 | 96 | 2.10 | 1.60 | 1.40 | 0.42 | 0.20 | 0.19 | 9.6 | 5.5 | 4.4 | 23 | 23 | 119.0 | 60.68 | 1.104 |
| G6 | 439255.838 | 5537379.924 | 193 | 287 | 35 | 67 | 16 | 46 | 0.5 | 0.82 | 0.55 | 13 | 124 | 81 | 1.98 | 1.51 | 0.90 | 0.46 | 0.18 | 0.15 | 9.6 | 5.5 | 4.4 | 22 | 21 | 157.4 | 61.18 | 1.107 |
| H6 | 439254.010 | 5537302.641 | 146 | 215.5 | 3 | 64 | 15 | 40 | 0.4 | 1.44 | 2.19 | 18 | 126 | 144 | 1.90 | 1.33 | 1.22 | 0.52 | 0.17 | 0.12 | 9.2 | 5.6 | 4.2 | 19 | 18 | 110.0 | 60.60 | 1.106 |
| **Means** | | | **198** | **269.8** | **91** | **129** | **15** | **28** | **0.8** | **0.99** | **1.66** | **21** | **169** | **131** | **1.59** | **0.96** | **0.56** | **0.33** | **0.18** | **0.14** | **9.6** | **5.1** | **4.5** | **25** | **26** | **106.1** | **60.1** | **1.099** |

**✚ Additional Information, as follows.**
DR – July 7 – September 3, 1999
Kel – Kelowna method
AA – Ammonium Acetate method
DT[1] – July 7, 1999
DT[2] – July 30, 1999
DT[3] – August 17, 1999