

Table 1. Early vigor, maturity, and quality of onions in the Oakes Irrigation Research Site 2002 onion performance trial.

| Hybrid | Seed producer | June 17 stand | Herbicide injury ¹ | Days to half-down ² | Single centers | Uni-formity | Overall score |
|--------------------|-----------------|---------------------|-------------------------------|--------------------------------|----------------|-------------|---------------|
| | | ----- 1 to 10 ----- | | | % | 1 to 5 | 1 to 10 |
| BGS 174 | BE | 67 j-n ⁴ | 1.8 abc | 123 f-l | 60 b-f | 3.1 c-h | 7.5 a-e |
| Braddock (BGS 142) | BE | 77 f-k | 2.3 cde | 124 g-k | 5 l | 3.8 a-d | 7.5 a-e |
| Brahma | SS ³ | 91 a-f | 1.0 a | 123 f-i | 45 d-i | 3.0 d-i | 7.5 a-e |
| Condor | AT | 78 e-k | 2.3 cde | 129 o-s | 25 h-l | 2.6 f-j | 6.5 c-g |
| Copra | BE | 101 a | 2.0 bcd | 123 f-j | 35 f-k | 4.3 a | 7.9 abc |
| Corona | BE | 95 a-d | 2.8 d-g | 114 d | 75 abc | 3.5 a-e | 6.3 d-g |
| Cortland | BE | 98 abc | 2.0 bcd | 123 f-i | 30 g-l | 3.3 b-g | 7.3 a-e |
| DPSX 1170 | DP | 97 a-d | 2.8 d-g | 120 ef | 45 c-j | 4.0 abc | 4.4 ij |
| DPSX 1171 | DP | 72 h-m | 2.5 c-f | 128 l-p | 35 f-k | 2.3 ij | 6.5 c-g |
| DPSX 1172 | DP | 88 a-g | 2.6 c-f | 128 k-p | 20 h-l | 2.8 e-j | 7.0 a-f |
| Festival | BE | 95 a-d | 2.5 c-f | 124 g-k | 75 abc | 3.5 a-e | 8.3 ab |
| Flintstone (sets) | DVG | 67 j-n | 3.5 ghi | 95 a | 55 b-g | 4.0 ab | 1.0 l |
| Flintstone | DVG | 78 e-k | 3.0 e-h | 116 de | 70 a-d | 3.5 a-e | 1.0 l |
| Frontier (T-400) | AT | 86 b-h | 2.3 cde | 122 fg | 75 abc | 4.0 ab | 7.0 a-e |
| Frosty | DP | 57 mn | 3.3 fgh | 132 rst | 40 e-j | 2.8 e-j | 6.5 c-g |
| Granero | SS | 86 a-h | 2.3 cde | 128 l-p | 80 ab | 3.5 a-e | 8.5 a |
| Kodiak | DP | 76 f-k | 2.3 cde | 127 k-p | 20 i-l | 2.5 g-j | 6.3 d-g |
| Mesquite | DP | 71 h-m | 2.8 d-g | 133 stu | 15 jkl | 2.9 e-j | 6.1 e-h |
| Mustang | BE | 10 ab | 2.8 d-g | 129 m-q | 60 b-f | 2.9 e-j | 6.5 c-g |
| NiZ 37-32 | VL | 82 d-j | 3.3 fgh | 126 i-p | 60 b-f | 3.0 d-i | 6.8 b-g |
| Prince | BE | 89 a-f | 2.5 c-f | 127 k-p | 40 e-j | 3.5 a-e | 7.5 a-e |
| Ranchero | SS | 85 a-i | 2.7 d-g | 127 k-p | 54 b-h | 2.5 f-j | 7.6 a-e |
| Red Baron (sets) | DVG | 60 lmn | 4.3 i | 113 cd | 65 a-e | 3.8 a-d | 2.0 kl |
| Red Beauty | BE | 67 j-n | 2.3 cde | 132 q-t | 40 e-j | 3.0 d-i | 3.3 jk |
| Sabroso | SS | 77 f-k | 2.3 cde | 128 l-p | 45 d-i | 2.9 e-j | 8.3 ab |
| Salem | BE | 86 a-h | 1.8 abc | 125 g-l | 45 d-i | 3.4 b-f | 7.8 a-d |
| Setton (sets) | DVG | 64 k-n | 4.3 i | 110 bc | 75 abc | 3.0 d-i | 4.3 ij |
| Setton | DVG | 65 k-n | 3.3 fgh | 136 uv | 75 abc | 2.4 hij | 3.3 jk |
| Sharon | BE | 92 a-e | 2.0 bcd | 120 ef | 30 g-l | 3.5 a-e | 7.8 a-d |

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Table 1. Early vigor, maturity, and quality of onions in the Oakes Irrigation Research Site 2002 onion performance trial (continued).

| Hybrid | Seed producer | June 17 stand | Herbicide injury ¹ | Days to half-down ² | Single centers | Uni-formity | Overall score |
|--------|---------------|---------------------|-------------------------------|--------------------------------|----------------|-------------|---------------|
| | | ----- 1 to 10 ----- | % | 1 to 5 | | | |

| | | | | | | | |
|---------------|-----|--------|---------|---------|--------|---------|---------|
| SR7002 | SS | 78 e-k | 2.0 bcd | 124 g-k | 75 abc | 3.0 d-i | 6.3 d-g |
| Sturon (sets) | DVG | 70 i-n | 4.3 i | 107 b | 40 e-j | 2.6 f-j | 2.3 kl |
| Sturon | DVG | 60 lmn | 3.0 e-h | 132 q-t | 20 h-l | 2.8 e-j | 5.4 f-i |
| SWO 7391 | SWK | 77 f-k | 2.8 d-g | 127 k-p | 80 ab | 3.0 d-i | 7.4 a-e |
| SWO 7074 | SWK | 58 mn | 2.5 c-f | 126 h-n | 35 f-k | 2.1 j | 7.0 a-e |
| SWO 7761 | SWK | 81 d-j | 3.0 e-h | 129 m-q | 55 b-g | 2.8 e-j | 7.3 a-e |
| SX4391 | SS | 82 d-j | 3.8 hi | 130 p-s | 30 g-l | 2.3 ij | 5.3 ghi |
| SX7000 | SS | 84 c-i | 1.8 abc | 126 i-o | 90 a | 2.9 e-j | 7.8 a-d |
| T-433 | AT | 72 h-m | 2.8 d-g | 140 v | 10 kl | 2.4 hij | 4.6 hij |
| T-439 | AT | 72 g-m | 2.3 cde | 127 k-p | 45 d-i | 2.6 f-j | 6.3 d-g |
| T-441 | AT | 74 g-l | 2.5 c-f | 125 g-l | 70 a-d | 3.1 c-h | 6.9 b-f |
| Tamara | BE | 82 d-j | 2.2 cde | 125 g-m | 80 ab | 3.0 d-j | 7.0 a-f |
| Tequila | DP | 77 f-k | 2.5 c-f | 129 n-r | 40 e-j | 2.8 e-j | 7.5 a-e |
| Tesoro | SS | 96 a-d | 2.0 bcd | 124 g-k | 30 g-l | 3.4 b-f | 7.8 a-d |
| Teton | SM | 56 n | 1.3 ab | 126 j-p | 60 b-f | 2.8 e-j | 7.0 a-e |
| Torrero | SS | 76 f-k | 3.3 fgh | 133 tu | 75 abc | 2.3 ij | 6.5 c-g |
| Vaquero | SS | 72 g-m | 3.0 e-h | 128 l-p | 80 ab | 2.9 e-j | 8.0 abc |
| Varsity | SWK | 90 a-f | 1.0 a | 122 fgh | 45 d-i | 3.0 d-i | 7.8 a-d |
| Probability | | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 |
| C. V. (%) | | 14 | 24 | 2 | 42 | 19 | 18 |

¹Rating from 0 (no injury) to 10 (all plants dead). Herbicides causing injury were Buctril and Goal.

²Number of days from planting to when half the onion tops had fallen over. This is an indication of maturity.

³This seed was furnished by Norman Haak.

⁴Values in the same column followed by the same letter are not significantly different at the 0.05 level.

Table 2. Yield and total onions in the Oakes Irrigation Research Site 2002 onion hybrid performance trial.

| Hybrid | Seed producer | Onion yield (by bulb size) | | | | | Total | Cull weight | Total bulbs |
|--------------------|-----------------|----------------------------|---------|---------|---------|--------|---------|-------------|-------------|
| | | > 4 | 3 to 4" | 3 to 3 | 2 to 3" | <2 " | | | |
| | | ----- cwt/acre ----- | | | | | | | |
| | | 1000s/A | | | | | | | |
| BGS 174 | BE | 0 d ¹ | 5 hij | 87 c-l | 107 e-l | 14 lmn | 230 f-m | 7 h-l | 63 m-r |
| Braddock (BGS 142) | BE | 0 d | 0 j | 38 m-r | 133 a-g | 34 e-h | 216 g-o | 4 kl | 78 c-l |
| Brahma | SS ² | 0 d | 3 hij | 64 g-m | 137 a-e | 41 def | 260 c-g | 5 jkl | 86 a-h |
| Condor | AT | 0 d | 10 f-j | 61 h-n | 134 a-f | 20 j-n | 267 b-g | 15 c-k | 75 d-n |
| Copra | BE | 0 d | 0 j | 2 uv | 152 abc | 65 a | 234 e-k | 6 i-l | 100 a |
| Corona | BE | 0 d | 0 j | 16 q-v | 111 d-l | 40 def | 188 i-p | 12 f-l | 85 a-h |
| Cortland | BE | 0 d | 0 j | 19 q-v | 108 e-l | 60 ab | 195 h-o | 4 kl | 89 a-f |
| DPSX 1170 | DP | 0 d | 2 hij | 5 s-v | 91 h-p | 63 ab | 173 l-r | 7 g-l | 89 a-g |
| DPSX 1171 | DP | 0 d | 21 d-g | 65 f-m | 82 k-p | 24 g-m | 242 e-i | 20 c-f | 69 j-p |
| DPSX 1172 | DP | 0 d | 2 hij | 97 a-e | 134 a-h | 28 e-l | 308 abc | 13 e-l | 92 a-e |
| Festival | BE | 0 d | 2 ij | 54 k-p | 157 ab | 42 cde | 266 b-g | 4 kl | 92 abc |
| Flintstone (sets) | DVG | 0 d | 0 j | 0 v | 5 r | 8 n | 22 u | 44 a | 32 t |
| Flintstone | DVG | 0 d | 0 j | 2 tuv | 4 r | 15 lmn | 32 u | 33 ab | 49 rs |
| Frontier (T-400) | AT | 0 d | 0 j | 5 s-v | 121 b-j | 51 bcd | 185 j-p | 5 kl | 85 a-h |
| Frosty | DP | 0 d | 4 hij | 32 o-t | 84 j-p | 17 k-n | 164 o-s | 15 d-k | 52 qrs |
| Granero | SS | 2 cd | 29 a-d | 119 ab | 111 d-l | 14 lmn | 302 a-d | 8 g-l | 75 f-n |
| Kodiak | DP | 4 bc | 13 e-j | 78 c-k | 96 g-o | 17 k-n | 259 c-g | 17 c-i | 72 g-o |
| Mesquite | DP | 3 cd | 37 abc | 105 abc | 88 i-p | 13 mn | 303 abc | 16 c-j | 71 h-o |
| Mustang | BE | 0 d | 0 j | 34 n-s | 156 ab | 31 e-j | 255 c-g | 13 e-l | 94 ab |
| NiZ 37-32 | VL | 0 d | 0 j | 22 q-v | 113 d-k | 34 e-i | 178 k-p | 5 jkl | 75 e-n |
| Prince | BE | 0 d | 2 ij | 38 m-r | 146 a-d | 33 e-i | 231 e-l | 5 jkl | 84 b-i |
| Ranchero | SS | 12 a | 43 ab | 124 a | 100 e-m | 16 k-n | 329 a | 10 f-l | 79 b-m |
| Red Baron (sets) | DVG | 0 d | 0 j | 0 v | 22 qr | 19 j-n | 71 tu | 39 a | 47 st |
| Red Beauty | BE | 0 d | 0 j | 3 tuv | 58 opq | 31 e-j | 116 rt | 26 bc | 63 l-r |
| Sabroso | SS | 0 d | 16 d-i | 95 a-f | 124 b-i | 21 i-n | 276 a-f | 7 h-l | 76 d-m |
| Salem | BE | 0 d | 0 j | 60 i-o | 165 a | 34 e-i | 269 b-g | 4 l | 86 a-h |
| Setton (sets) | DVG | 0 d | 0 j | 10 r-v | 60 m-p | 15 lmn | 111 st | 26 bcd | 52 qrs |
| Setton | DVG | 0 d | 0 j | 12 q-v | 61 m-p | 20 j-n | 138 p-s | 34 ab | 58 o-s |
| Sharon | BE | 0 d | 2 ij | 18 q-v | 136 a-e | 55 abc | 219 g-o | 3 l | 93 abc |

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Table 2. Yield and total onions in the Oakes Irrigation Research Site 2002 onion hybrid performance trial (continued).

| Seed | Onion yield (by bulb size) | | | | | Cull | Total |
|------|----------------------------|--|--|--|--|------|-------|
|------|----------------------------|--|--|--|--|------|-------|

| Hybrid | producer | > 4 | 3 to 4" | 3 to 3 | 2 to 3" | <2 " | Total | weight | bulbs |
|---------------|----------|----------------------|---------|--------|---------|--------|---------|--------|---------|
| | | ----- cwt/acre ----- | | | | | | % | 1000s/A |
| SR7002 | SS | 0 d | 18 d-h | 86 c-j | 79 k-p | 11 mn | 254 c-g | 23 b-e | 67 k-q |
| Sturon (sets) | DVG | 0 d | 0 j | 9 r-v | 58 pq | 22 h-m | 110 st | 18 c-h | 60 n-s |
| Sturon | DVG | 0 d | 3 hij | 13 q-v | 57 pq | 18 k-n | 122 qrt | 25 bcd | 55 p-s |
| SWO 7391 | SWK | 0 d | 6 f-j | 85 c-j | 130 a-h | 20 j-n | 261 c-g | 7 g-l | 73 g-o |
| SWO 7074 | SWK | 7 b | 21 c-f | 65 f-m | 59 n-q | 15 lmn | 198 h-o | 12 f-l | 52 qrs |
| SWO 7761 | SWK | 0 d | 5 hij | 58 j-p | 132 a-h | 17 k-n | 241 e-j | 13 e-l | 73 g-o |
| SX4391 | SS | 0 d | 5 g-j | 23 q-v | 75 l-p | 36 efg | 172 n-q | 18 c-g | 68 k-p |
| SX7000 | SS | 0 d | 6 f-j | 37 m-r | 116 c-k | 38 def | 215 g-o | 8 g-l | 81 b-k |
| T-433 | AT | 0 d | 11 f-j | 75 d-k | 97 f-n | 19 j-n | 227 f-n | 9 f-l | 63 l-r |
| T-439 | AT | 0 d | 6 f-j | 74 d-l | 128 a-h | 15 lmn | 246 e-h | 9 g-l | 69 i-p |
| T-441 | AT | 0 d | 0 j | 30 p-u | 105 e-l | 32 e-j | 175 m-q | 5 jkl | 69 i-p |
| Tamara | BE | 0 d | 0 j | 43 l-q | 155 abc | 38 d-g | 243 d-j | 3 l | 85 a-j |
| Tequila | DP | 0 d | 44 a | 92 b-g | 105 e-l | 11 mn | 307 abc | 14 e-l | 72 g-o |
| Tesoro | SS | 0 d | 0 j | 68 d-l | 164 a | 29 f-k | 287 a-e | 8 g-l | 89 a-f |
| Teton | SM | 0 d | 8 f-j | 66 e-m | 79 k-p | 19 j-n | 189 i-p | 9 g-l | 54 p-s |
| Torrero | SS | 2 cd | 28 b-e | 93 a-f | 104 e-l | 9 n | 261 c-g | 10 f-l | 63 l-r |
| Vaquero | SS | 2 cd | 42 ab | 97 a-d | 102 e-l | 16 k-n | 265 c-g | 3 l | 69 j-p |
| Varsity | SWK | 0 d | 15 d-j | 90 c-h | 153 abc | 24 g-m | 322 ab | 11 f-l | 91 a-d |
| Probability | | 0.0003 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 | <.0001 |
| C. V. (%) | | 410 | 130 | 42 | 26 | 35 | 19 | 60 | 15 |

¹This seed was furnished by Norman Haak.

²Values in the same column followed by the same letter are not significantly different at the 0.05 level.