Table 1. Yield and size distribution in cwt./acre by variety and late nitrogen treatment in 2010. Yield differences within a tuber size category that are statistically significant at a=.05 include letters next to the cwt. yield values. Treatments that have a letter in common are not significantly different, while those that do not have a common letter are significantly different.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Norkotah |  |  |  | Canela | | |  | | Rio Grande | | |
| Tuber Size | Control | Plus 20 | Plus 40 |  | Control | | Plus 20 | Plus 40 |  | Control | | Plus 20 | Plus 40 |
| < 4 oz. | 63 A | 94 B | 88 B |  | 32 | | 31 | 39 |  | 73 | | 49 | 59 |
| 4-6 oz. | 91 A | 132 B | 114 AB |  | 69 | | 78 | 82 |  | 98 | | 106 | 98 |
| 6-9 oz. | 119 | 116 | 96 |  | 150 | | 149 | 133 |  | 154 | | 159 | 155 |
| 9-12 oz. | 56 | 33 | 28 |  | 98 | | 70 | 84 |  | 95 | | 107 | 89 |
| 12-15 oz. | 27 B | 9A | 10A |  | 29 | | 27 | 29 |  | 53 | | 48 | 57 |
| > 15 oz. | 16 | 0 | 10 |  | 11 | | 14 | 15 |  | 46 | | 42 | 51 |

Table 2. Yield and size distribution in cwt./acre for Russet Norkotah CO8 and Canela Russet by nitrogen treatment in 2011.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Norkotah |  |  |  | Canela |
| Tuber Size | Control | Plus 20 N | Plus 40 N |  | Control | Plus 20 N | Plus 40 N |
| <4 oz. | 15 | 19 | 22 |  | 22 | 32 | 19 |
| 4-6 oz. | 40 | 45 | 46 |  | 54 | 55 | 47 |
| 6-9 oz. | 103 | 113 | 105 |  | 108 A | 146 B | 102 A |
| 9-12 oz. | 114 | 107 | 122 |  | 133 | 114 | 97 |
| 12-18 oz. | 195 B | 202 B | 159 A |  | 160 AB | 195 B | 139 A |
| >18 oz. | 16 | 40 | 18 |  | 10 | 7 | 11 |

Table 3. Yield and size distribution in cwt./acre for Rio Grande Russet and Mesa Russet by nitrogen treatment in 2011.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Rio Grande |  |  |  | Mesa Russet |
| Tuber Size | Control | Plus 20 N | Plus 40 N |  | Control | Plus 20 N | Plus 40 N |
| <4 oz. | 55 | 61 | 47 |  | 18 | 15 | 21 |
| 4-6 oz. | 86 | 72 | 91 |  | 39 | 44 | 40 |
| 6-9 oz. | 149 | 169 | 146 |  | 116 | 121 | 129 |
| 9-12 oz. | 139 | 118 | 142 |  | 119 | 126 | 149 |
| 12-18 oz. | 184 | 206 | 194 |  | 171 | 176 | 215 |
| >18 oz. | 14 | 7 | 4 |  | 18 | 11 | 40 |