



2018 South Dakota Field Peas Variety Trial Results Pierre

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Cooperator: Dwayne Beck
Location: Dakota Lakes
Soil Type: Silt Loam
Fertilizer: NA
Previous crop: Grain Sorghum
Tillage: No-till
Row spacing: 10"
Seeding Rate: 350,000 PLS/acre
Herbicide: Prowl H2O
Fungicide: NA
Date seeded: 4/23/2018
Date harvested: 7/24/2018
Notes: This project is supported by funding from the South Dakota Pulse Council

Table 1. 2018 field pea variety performance trial results (average of 4 replications) at Pierre, SD§.

| Variety | Height (in) | Test Wt (lbs) | Protein (%) | 2018 (bu/a) | 2 year¶ (bu/a) | 3 year¶ (bu/a) |
|-----------------------------|-------------|---------------|-------------|-------------|----------------|----------------|
| AAC Asher | 20 | 57.2 | 25.5 | 55 | - | - |
| AAC Carver | 20 | 61.3 | 22.9 | 45 | 45 | 45 |
| AAC Chrome | 20 | 60.8 | 23.9 | 47 | - | - |
| AAC Comfort | 18 | 60.3 | 25.6 | 39 | - | - |
| AAC Profit | 15 | 59.1 | 28.1 | 51 | - | - |
| Agassiz | 22 | 60.9 | 25.4 | 47 | 48 | 48 |
| Blumoon | 20 | 61.0 | 26.2 | 46 | 45 | 45 |
| Bridger | 15 | 61.2 | 25.1 | 45 | 45 | 45 |
| CDC Amarillo | 21 | 61.5 | 26.0 | 44 | 46 | 46 |
| CDC Dakota | 24 | 61.0 | 29.3 | 48 | - | - |
| CDC Greenwater | 20 | 61.0 | 24.4 | 41 | - | - |
| CDC Inca | 16 | 61.4 | 27.0 | 46 | - | - |
| CDC Saffron | 17 | 61.2 | 25.0 | 46 | 46 | 47 |
| CDC Spectrum | 12 | 60.8 | 26.6 | 41 | - | - |
| CDC Striker | 21 | 61.1 | 26.4 | 41 | 40 | - |
| DS-Admiral | 25 | 61.4 | 24.0 | 47 | 46 | 45 |
| Durwood | 23 | 61.3 | 25.9 | 43 | 45 | 47 |
| Earlystar | 17 | 60.7 | 22.5 | 40 | 40 | 39 |
| Empire (SGL 7647) | 17 | 61.2 | 25.7 | 39 | - | - |
| Ginny | 18 | 61.5 | 24.5 | 39 | - | - |
| Gunner | 8 | 61.0 | 24.6 | 43 | 43 | 44 |
| Hyline | 15 | 60.9 | 24.9 | 43 | 45 | 47 |
| Jetset | 17 | 61.2 | 25.4 | 42 | 43 | 43 |
| Korando | 16 | 61.0 | 25.6 | 46 | 45 | 42 |
| LG Amigo | 17 | 61.0 | 24.9 | 40 | - | - |
| LG Koda | 18 | 61.2 | 23.8 | 41 | - | - |
| LG Sunrise | 17 | 62.2 | 23.9 | 47 | - | - |
| Majestic | 18 | 60.3 | 26.6 | 43 | 43 | |
| Mystique | 20 | 60.0 | 25.9 | 46 | 47 | 49 |
| Navarro | 15 | 60.8 | 25.2 | 40 | 40 | 42 |
| Nette 2010 | 16 | 62.4 | 23.4 | 48 | 48 | 47 |
| Pro 093-7410 (experimental) | 22 | 60.9 | 21.7 | 41 | - | - |
| Pro 131-7123 (experimental) | 20 | 60.3 | 25.0 | 40 | - | - |
| Pro 133-6243 (experimental) | 15 | 61.6 | 25.5 | 45 | - | - |
| Salamanca | 17 | 60.4 | 27.5 | 46 | 47 | 48 |
| Shamrock | 12 | 59.4 | 26.4 | 35 | - | - |
| Spider | 22 | 61.2 | 26.9 | 50 | 49 | 49 |
| SW Arcadia | 13 | 61.3 | 22.5 | 40 | 38 | 37 |
| SW Midas | 17 | 60.8 | 24.8 | 43 | 42 | 43 |
| Viper | 23 | 57.6 | 26.3 | 35 | 36 | 36 |
| Trial Average | 18 | 60.9 | 25.3 | 44 | 44 | 45 |
| LSD (0.05)† | - | 2.0 | 1.1 | 3.5 | 3.3 | 3.7 |
| C.V. %‡ | - | 2 | 3 | 5 | 7 | 10 |

§ Values in bold rank in the top third of all varieties for each category

¶ Averages based on 2015, 2016 and 2018.

† Value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.