



# 2018 South Dakota Field Peas Variety Trial Results Batesland

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|------------------------|--|
| <b>Cooperator:</b>     | Troy and Colin Kuxhaus   |
| <b>Location:</b>       | Batesland, SD  |
| <b>Soil Type:</b>      | Silt Loam  |
| <b>Fertilizer:</b>     | NA   |
| <b>Previous crop:</b>  | Corn   |
| <b>Tillage:</b>        | No-till  |
| <b>Row spacing:</b>    | 10"  |
| <b>Seeding Rate:</b>   | 350,000 PLS/acre   |
| <b>Herbicide:</b>      | Clethodim 2E   |
| <b>Fungicide:</b>      | NA   |
| <b>Date seeded:</b>    | 5/7/2018   |
| <b>Date harvested:</b> | 8/13/2018  |
| <b>Notes:</b>          | 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 Batesland, SD§.

| Variety                     | Height (in) | Test Wt (lbs) | Protein (%) | 2018 (bu/a) | 2 year¶ (bu/a) | 3 year¶ (bu/a) |
|-----------------------------|-------------|---------------|-------------|-------------|----------------|----------------|
| AAC Asher                   | 17          | 57.9          | 23.4        | <b>58</b>   | -              | -              |
| AAC Carver                  | 19          | 57.3          | 22.6        | <b>53</b>   | -              | -              |
| AAC Chrome                  | 17          | <b>60.3</b>   | 21.7        | <b>70</b>   | -              | -              |
| AAC Comfort                 | 23          | 56.4          | 23.9        | <b>59</b>   | -              | -              |
| AAC Profit                  | 20          | 56.7          | <b>24.3</b> | <b>60</b>   | -              | -              |
| Agassiz                     | 14          | 58.1          | 23.8        | 53          | -              | -              |
| Bluemoon                    | 15          | <b>60.0</b>   | 23.2        | 48          | -              | -              |
| Bridger                     | 18          | 59.3          | 23.8        | 40          | -              | -              |
| CDC Amarillo                | 17          | <b>60.2</b>   | 23.7        | 48          | -              | -              |
| CDC Dakota                  | 22          | 56.9          | <b>25.1</b> | <b>56</b>   | -              | -              |
| CDC Greenwater              | 27          | 54.8          | 23.2        | <b>54</b>   | -              | -              |
| CDC Inca                    | 18          | 58.5          | <b>25.0</b> | <b>53</b>   | -              | -              |
| CDC Saffron                 | 20          | 55.1          | 24.1        | <b>58</b>   | -              | -              |
| CDC Spectrum                | 24          | 56.0          | <b>24.2</b> | <b>54</b>   | -              | -              |
| CDC Striker                 | 22          | 58.6          | <b>25.5</b> | 43          | -              | -              |
| DS-Admiral                  | 10          | 59.3          | 23.5        | 41          | -              | -              |
| Durwood                     | 24          | <b>60.4</b>   | 23.1        | 47          | -              | -              |
| Earlstar                    | 12          | <b>60.1</b>   | 21.9        | 43          | -              | -              |
| Empire (SGL 7647)           | 25          | <b>60.5</b>   | 23.7        | 43          | -              | -              |
| Ginny                       | 14          | 57.4          | 23.0        | 36          | -              | -              |
| Gunner                      | 16          | <b>60.5</b>   | 23.0        | 42          | -              | -              |
| Hyline                      | 14          | <b>59.7</b>   | 23.3        | <b>53</b>   | -              | -              |
| Jetset                      | 10          | 59.0          | 24.0        | 42          | -              | -              |
| Korando                     | 18          | 58.3          | <b>25.8</b> | 41          | -              | -              |
| LG Amigo                    | 12          | 59.4          | <b>25.1</b> | 42          | -              | -              |
| LG Koda                     | 20          | 56.7          | 22.5        | <b>57</b>   | -              | -              |
| LG Sunrise                  | 12          | <b>60.1</b>   | 22.3        | 41          | -              | -              |
| Majestic                    | 27          | <b>59.8</b>   | <b>24.9</b> | 45          | -              | -              |
| Mystique                    | 17          | 58.1          | <b>24.4</b> | 36          | -              | -              |
| Navarro                     | 15          | 54.9          | 24.0        | 33          | -              | -              |
| Nette 2010                  | 16          | 59.1          | 22.6        | 37          | -              | -              |
| Pro 093-7410 (experimental) | 12          | 56.9          | 21.0        | 42          | -              | -              |
| Pro 131-7123 (experimental) | 15          | 59.3          | 23.0        | 37          | -              | -              |
| Pro 133-6243 (experimental) | 10          | 58.0          | <b>24.8</b> | 38          | -              | -              |
| Salamanca                   | 16          | 58.9          | <b>25.9</b> | 43          | -              | -              |
| Shamrock                    | 20          | 59.1          | 23.1        | 44          | -              | -              |
| Spider                      | 18          | <b>60.3</b>   | <b>25.9</b> | <b>56</b>   | -              | -              |
| SW Arcadia                  | 10          | <b>59.9</b>   | 22.5        | 41          | -              | -              |
| SW Midas                    | 14          | <b>60.8</b>   | 23.1        | 45          | -              | -              |
| Viper                       | 14          | 54.6          | <b>24.9</b> | 31          | -              | -              |
| <b>Trial Average</b>        | 17          | 58.5          | 23.7        | 47          | -              | -              |
| <b>LSD (0.05)†</b>          | -           | 7.5           | 2.9         | 9           | -              | -              |
| <b>C.V. %‡</b>              | -           | 8             | 8           | 12          | -              | -              |

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

† Value required (≥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.