

#### **Background**

New processing pea cultivars are being bred all the time. These new cultivars need to be tested in an Ontario growing environment in order to select those with optimum performance in an Ontario climate. Having data to support future cultivar purchases will ensure maximum productivity for Ontario pea growers.

#### **Objective**

1. Evaluate the suitability of available pea cultivars to the Ontario climate and their relative performance as compared to cultivars grown extensively in Ontario's pea program.

#### EARLY PLANTING



#### SITE INFORMATION

Soil Type: Berrien Sand Loam

Tillage: 1 pass fall soil saver, 2 passes spring land cultivator

Soil Fertility: pH 7.3, P(bicarb) 19, K(ppm) 168, Mg(ppm) 247, CEC 17.2, OM 3.1

Herbicides: Roundup transorb 1 L/ac, Dual II Magnum 0.6 L/ac

pre-emerge application

Planting Date: April 22, 2024

The trial design was a randomized complete block design, with 4 replications per variety. Each variety was assigned an ID which was used for observations and data collection. Each plot was planted 6 rows wide with 7.5" row spacing to a length of approximately 18 feet. Each plot was split into three, five-foot long sections. This allowed for a maximum of 3 separate harvest days for each variety. Harvest data was obtained by compiling the harvest sections from all 4 replications

Heat units to harvest are calculated until the end of the harvest day.

## LATE PLANTING



#### SITE INFORMATION

Soil Type: Tuscola Loam

Tillage: Fall disc chisel, spring cultivated

Herbicides: 0.6L/ac Dual II Magnum + 120mL/ac Pursuit applied May 25, 2024

Planting Date: June 12, 2024

The trial design was a randomized incomplete block design, with 4 replications per variety. Each variety was assigned an ID which was used for observations and data collection. Each plot was planted 6 rows wide with 7.5" row spacing to a length of approximately 18 feet. Each plot was split into three, five-foot long sections. This allowed for a maximum of 3 separate harvest days for each variety. Harvest data was obtained by compiling the harvest section from all 4 replications

Heat units to harvest are calculated until the end of the harvest day.



Results
Early Planting - Tupperville, ON

## **Season Summary - Early Planting**

The trial was planted into good soil conditions and adequate moisture. Following planting, nighttime temperatures remained cool with next to no rain for 5 days. For the remainder of the season it continued to rain frequently. Air HU were higher than usual for April, May and June but due to frequent rainfall, moisture levels in the soil remained high.

Weed control was done prior to emergence and escapes were removed by hand.

During early vegetative development all varieties showed symptoms of a suspected rhizoctonia infections, however it did not appear to be severe enough to impact yield and all varieties were impacted relatively equally.

Harvest started on June 17th, fifty-six (56) days after planting and continued almost daily until June 26th, sixty-five (65) days after planting.

## Weather 2024

| April | High (*C) | Low (*C) | Daily HU | Daily Precip. (mm) |
|-------|-----------|----------|----------|--------------------|
| 22    | 15.5      | -1.2     | 5        | 0                  |
| 23    | 13.4      | 8.1      | 11       | 0                  |
| 24    | 8.7       | -2.4     | 0        | 0.8                |
| 25    | 12.9      | -3.8     | 0        | 0                  |
| 26    | 17.7      | -2.4     | 6        | 0                  |
| 27    | 24.4      | 11.2     | 24       | 4.6                |
| 28    | 23.4      | 11.0     | 23       | 14.2               |
| 29    | 25.7      | 13.4     | 27       | 10.4               |
| 30    | 21.6      | 9.7      | 20       | 8                  |

| Total Air HU        | 1469   |
|---------------------|--------|
| Total Precip. (mm)  | 216.40 |
| Total Precip. (in.) | 8.52   |

Daily HUs were calculated using daily maximum and minimum temperatures. When the calculated daily HUs were below 0 or exceeded 30, the daily total was manually adjusted to 0 and 30 respectively.

| May | High (*C) | Low (*C) | Daily HU | Daily Precip. (mm) |
|-----|-----------|----------|----------|--------------------|
| 1   | 25.1      | 5.8      | 20       | 0                  |
| 2   | 21.6      | 7.3      | 18       | 0                  |
| 3   | 18.1      | 11.4     | 19       | 19.6               |
| 4   | 23.1      | 10.8     | 23       | 0                  |
| 5   | 22.7      | 8.1      | 20       | 0                  |
| 6   | 18.9      | 6.3      | 15       | 0                  |
| 7   | 21.7      | 3.8      | 15       | 7                  |
| 8   | 24.5      | 8.4      | 22       | 0                  |
| 9   | 15.7      | 7.8      | 13       | 0.6                |
| 10  | 18.1      | 6.5      | 14       | 0                  |
| 11  | 13.2      | 8.9      | 12       | 6.6                |
| 12  | 18.6      | 5.1      | 13       | 0                  |
| 13  | 26.2      | 11.6     | 26       | 2.8                |
| 14  | 19.9      | 9.5      | 18       | 0                  |
| 15  | 21.3      | 9.0      | 19       | 0                  |
| 16  | 23.0      | 7.3      | 19       | 0                  |
| 17  | 19.5      | 14.4     | 23       | 5.2                |
| 18  | 24.2      | 14.0     | 26       | 0                  |
| 19  | 29.8      | 11.1     | 29       | 0                  |
| 20  | 31.0      | 13.9     | 30       | 0                  |
| 21  | 30.2      | 18.7     | 30       | 0                  |
| 22  | 29.6      | 20.1     | 30       | 0                  |
| 23  | 26.4      | 14.8     | 29       | 0                  |
| 24  | 27.4      | 12.2     | 28       | 0                  |
| 25  | 26.2      | 15.4     | 29       | 10                 |
| 26  | 25.1      | 11.7     | 25       | 30.4               |
| 27  | 22.3      | 14.6     | 25       | 8.6                |
| 28  | 20.9      | 12.5     | 22       | 14                 |
| 29  | 17.5      | 7.2      | 14       | 0                  |
| 30  | 18.4      | 4.6      | 13       | 0                  |
| 31  | 23.5      | 5.0      | 18       | 0                  |

| June | High (*C) | Low (*C) | Daily HU | Daily Precip. (mm) |
|------|-----------|----------|----------|--------------------|
| 1    | 24.5      | 8.9      | 22       | 0                  |
| 2    | 23.3      | 14.5     | 26       | 17.2               |
| 3    | 24.6      | 12.9     | 26       | 0                  |
| 4    | 29.0      | 14.7     | 30       | 0                  |
| 5    | 27.2      | 17.9     | 30       | 10.4               |
| 6    | 25.5      | 16.7     | 30       | 0                  |
| 7    | 20.1      | 13.4     | 22       | 0                  |
| 8    | 23.7      | 11.9     | 24       | 8.6                |
| 9    | 23.0      | 10.5     | 22       | 1.2                |
| 10   | 17.0      | 8.4      | 15       | 0                  |
| 11   | 21.7      | 6.5      | 17       | 0                  |
| 12   | 27.1      | 11.6     | 27       | 0                  |
| 13   | 30.6      | 20.5     | 30       | 0                  |
| 14   | 24.4      | 12.6     | 25       | 0                  |
| 15   | 22.7      | 10.7     | 22       | 0                  |
| 16   | 27.9      | 12.4     | 28       | 0                  |
| 17   | 33.3      | 17.7     | 30       | 1.2                |
| 18   | 31.9      | 22.1     | 30       | 0.0                |
| 19   | 32.7      | 19.5     | 30       | 10.6               |
| 20   | 32.2      | 18.5     | 30       | 6.2                |
| 21   | 31.7      | 17.4     | 30       | 3.2                |
| 22   | 31.7      | 19.0     | 30       | 0.2                |
| 23   | 27.8      | 17.5     | 30       | 1.8                |
| 24   | 27.8      | 16.2     | 30       | 0.8                |
| 25   | 25.0      | 17.9     | 30       | 9                  |
| 26   | 25.5      | 15.8     | 29       | 3.2                |

# 2024 Pea Cultivar Evaluation Trial (Ontario)



### **Small Sieve Peas**

| Variety             | Growing<br>Days | Acc Air<br>HU | Sieve<br>1 | Sieve<br>2 | Sieve<br>3 | Sieve<br>4 | Sieve<br>5 | Avg<br>Sieve | Expected<br>Sieve | Unadjusted<br>Yield<br>(tons/acre) | Avg TD | Adjusted<br>Yield<br>(tons/acre) | Yield Index<br>(2024) | Yield Index<br>(2023) | Yield Index<br>(2022) |
|---------------------|-----------------|---------------|------------|------------|------------|------------|------------|--------------|-------------------|------------------------------------|--------|----------------------------------|-----------------------|-----------------------|-----------------------|
| Natalie             | 59              | 1290          | 26.0%      | 43.6%      | 29.6%      | 0.4%       | 0.4%       | 2.1          | 2.4               | 1.60                               | 109    | 1.61                             | 81%                   | 72%                   |                       |
| CS529F              | 60              | 1320          | 9.0%       | 16.5%      | 62.9%      | 10.7%      | 0.9%       | 2.8          | 3.2               | 2.36                               | 116    | 2.24                             | 113%                  | 59% <sup></sup>       |                       |
| BSC489              | 60              | 1320          | 36.6%      | 25.5%      | 36.1%      | 1.3%       | 0.5%       | 2.0          | 2.3               | 1.12                               | 95     | 1.40                             | 71%                   |                       |                       |
| EXP098              | 61              | 1350          | 25.1%      | 38.4%      | 35.8%      | 0.5%       | 0.3%       | 2.1          | 1.9               | 1.67                               | 97     | 1.99                             | 101%                  |                       |                       |
| CS566F              | 61              | 1350          | 16.4%      | 40.5%      | 42.8%      | 0.2%       | 0.2%       | 2.3          | 1.8               | 2.71                               | 101    | 3.01                             | 152%                  |                       |                       |
| Nitro               | 63              | 1410          | 16.2%      | 42.1%      | 41.0%      | 0.6%       | 0.2%       | 2.3          |                   | 2.36                               | 119    | 2.22                             | 112%                  | 106%                  | 110%                  |
| DGF0086             | 63              | 1410          | 25.3%      | 31.7%      | 41.2%      | 1.4%       | 0.5%       | 2.2          | 2.1               | 0.96                               | 107    | 0.99                             | 50%                   |                       |                       |
| ASR40.2007          | 63              | 1410          | 16.1%      | 43.5%      | 39.5%      | 0.7%       | 0.2%       | 2.3          |                   | 1.92                               | 108    | 1.96                             | 99%                   |                       |                       |
| Valese (ASR40.4021) | 65              | 1469          | 9.7%       | 22.7%      | 65.1%      | 2.1%       | 0.4%       | 2.6          | 2.6               | 2.57                               | 123    | 2.36                             | 119%                  | 127%                  |                       |
|                     |                 |               |            |            |            |            |            | Trial        | Average           | 1.92                               | 108    | 1.98                             | 1.98                  | 1.85                  | 1.58                  |

| EARLY PLANTING      | Date            |            | 6/17 | 6/18 | 6/19 | 6/20 | 6/21   | 6/22 | 6/23 | 6/24 | 6/25 | 6/26 |
|---------------------|-----------------|------------|------|------|------|------|--------|------|------|------|------|------|
| Variety             | Variety Acc. HU |            |      |      |      |      | 1320   | 1350 | 1380 | 1410 | 1440 | 1469 |
| PETITE PEAS         | Adj. Yield      | Avg. Sieve |      |      |      |      | PETITE | PEAS |      |      |      |      |
| Natalie             | 1.61            | 2.1        |      | 89   | 97   | 109  |        |      |      |      |      |      |
| CS529F              | 2.24            | 2.8        |      |      | 97   | 102  | 116    |      |      |      |      |      |
| BSC489              | 1.40            | 2.0        |      |      |      |      | 95     |      |      |      |      |      |
| EXP098              | 1.99            | 2.1        |      |      |      |      | 93     | 97   |      | 144  |      |      |
| CS566F              | 3.01            | 2.3        |      |      |      |      | 95     | 101  |      | 145  |      |      |
| Nitro               | 2.22            | 2.3        |      |      |      |      |        | 89   |      | 119  |      |      |
| DGF0086             | 0.99            | 2.2        |      |      |      |      |        |      |      | 107  |      |      |
| ASR40.2007          | 1.96            | 2.3        |      |      |      |      |        | 86   |      | 108  |      |      |
| Valese (ASR40.4021) | 2.36            | 2.6        |      |      |      |      |        |      |      | 92   | 102  | 123  |

# 2024 Pea Cultivar Evaluation Trial (Ontario)



## Large Sieve Peas

| Variety       | Growing<br>Days | Acc Air<br>HU | Sieve 1 | Sieve 2 | Sieve 3 | Sieve 4 | Sieve 5 | Avg<br>Sieve | Expected<br>Sieve | Unadjusted<br>Yield<br>(tons/acre) | Avg TD | Adjusted Yield (tons/acre) | Yield Index<br>(2024) | Yield Index<br>(2023) | Yield Index<br>(2022) |
|---------------|-----------------|---------------|---------|---------|---------|---------|---------|--------------|-------------------|------------------------------------|--------|----------------------------|-----------------------|-----------------------|-----------------------|
| Sherwood      | 57              | 1230          | 3.5%    | 3.0%    | 14.7%   | 20.3%   | 58.6%   | 4.3          |                   | 2.35                               | 114    | 2.26                       | 98%                   | 77%                   | 72%                   |
| Dakota        | 57              | 1230          | 2.1%    | 0.5%    | 12.2%   | 15.6%   | 69.7%   | 4.5          | 3.9               | 2.80                               | 114    | 2.68                       | 116%                  |                       |                       |
| CS504AF       | 57              | 1230          | 1.6%    | 0.9%    | 10.5%   | 14.4%   | 72.6%   | 4.6          | 3.7               | 2.85                               | 110    | 2.85                       | 123%                  |                       |                       |
| Hesbana       | 58              | 1260          | 2.4%    | 4.3%    | 25.3%   | 32.2%   | 35.9%   | 4.0          |                   | 2.59                               | 116    | 2.46                       | 106%                  |                       |                       |
| SV3628QH      | 59              | 1290          | 2.0%    | 2.4%    | 13.9%   | 27.2%   | 54.5%   | 4.3          | 3.3               | 3.30                               | 127    | 2.97                       | 128%                  |                       |                       |
| PLS534        | 59              | 1290          | 4.4%    | 5.8%    | 26.2%   | 25.5%   | 38.1%   | 3.9          | 3.2               | 1.99                               | 112    | 1.95                       | 84%                   | 101%                  |                       |
| Austin        | 59              | 1290          | 1.1%    | 1.0%    | 12.5%   | 27.2%   | 58.3%   | 4.4          | 3.5               | 2.14                               | 115    | 2.06                       | 89%                   |                       |                       |
| M-14          | 60              | 1320          | 3.9%    | 6.5%    | 29.5%   | 36.1%   | 23.9%   | 3.7          | 4.2               | 2.14                               | 105    | 2.24                       | 97%                   |                       |                       |
| CS560DAF      | 60              | 1320          | 1.7%    | 3.4%    | 41.4%   | 44.3%   | 9.3%    | 3.6          | 4                 | 2.50                               | 124    | 2.28                       | 99%                   |                       |                       |
| Portage       | 59              | 1290          | 6.6%    | 11.3%   | 36.0%   | 24.0%   | 22.2%   | 3.4          |                   | 1.77                               | 93     | 2.32                       | 100%                  | 111%                  | 91%                   |
| SVQH2015      | 60              | 1320          | 7.2%    | 11.1%   | 46.6%   | 26.9%   | 8.1%    | 3.2          | 3.5               | 1.88                               | 95     | 2.35                       | 102%                  |                       |                       |
| BSC312        | 61              | 1350          | 2.8%    | 3.6%    | 40.0%   | 40.4%   | 13.3%   | 3.6          | 3.3               | 2.69                               | 111    | 2.66                       | 115%                  |                       |                       |
| BSC304        | 61              | 1350          | 5.3%    | 7.9%    | 39.3%   | 38.3%   | 9.3%    | 3.4          | 3.2               | 2.31                               | 119    | 2.17                       | 94%                   | 87%                   | 101%                  |
| SVQF2070      | 61              | 1350          | 3.4%    | 7.1%    | 52.3%   | 32.2%   | 5.1%    | 3.3          | 3.1               | 2.28                               | 111    | 2.26                       | 98%                   |                       |                       |
| Reliance      | 61              | 1350          | 4.4%    | 9.2%    | 56.6%   | 23.1%   | 6.6%    | 3.2          |                   | 2.36                               | 103    | 2.53                       | 109%                  | 101%                  | 112%                  |
| PLS613-89     | 61              | 1350          | 16.8%   | 18.9%   | 54.8%   | 8.0%    | 1.6%    | 2.6          | 2.7               | 1.69                               | 101    | 1.87                       | 81%                   | 103%                  |                       |
| ASR 40.3030   | 63              | 1410          | 6.2%    | 16.2%   | 70.3%   | 6.4%    | 1.0%    | 2.8          |                   | 2.74                               | 139    | 2.36                       | 102%                  |                       |                       |
| GL0062 (Kudo) | 64              | 1440          | 3.5%    | 4.1%    | 33.6%   | 35.5%   | 23.3%   | 3.7          |                   | 2.33                               | 135    | 2.03                       | 88%                   |                       |                       |
| Idalgo        | 63              | 1410          | 2.8%    | 4.0%    | 28.8%   | 39.6%   | 24.8%   | 3.8          |                   | 3.13                               | 125    | 2.85                       | 123%                  |                       |                       |
| BSC471        | 63              | 1410          | 11.0%   | 14.8%   | 61.7%   | 10.1%   | 2.4%    | 2.8          | 2.8               | 2.11                               | 108    | 2.15                       | 93%                   |                       |                       |
| SVQB2566      | 63              | 1410          | 25.4%   | 34.2%   | 38.5%   | 1.4%    | 0.5%    | 2.2          | 2.8               | 1.82                               | 108    | 1.86                       | 80%                   |                       |                       |
| SV3946QB      | 65              | 1469          | 10.6%   | 17.9%   | 60.7%   | 8.7%    | 2.1%    | 2.7          | 2.8               | 1.89                               | 122    | 1.74                       | 75%                   |                       | 111%                  |
|               |                 |               |         |         |         |         | -       | Trial        | Average           | 2.35                               | 114    | 2.31                       | 2.31                  | 1.86                  | 1.99                  |

| EARLY PLANTING | Da         | ate        | 6/17 | 6/18       | 6/19 | 6/20 | 6/21 | 6/22 | 6/23 | 6/24 | 6/25 | 6/26 |  |
|----------------|------------|------------|------|------------|------|------|------|------|------|------|------|------|--|
| Varieties      | Acc        | . HU       | 1200 | 1230       | 1260 | 1290 | 1320 | 1350 | 1380 | 140  | 1440 | 1469 |  |
| LARGE PEAS     | Adj. Yield | Avg. Sieve |      | LARGE PEAS |      |      |      |      |      |      |      |      |  |
| Sherwood       | 2.26       | 4.3        | 99   | 114        |      |      |      |      |      |      |      |      |  |
| Dakota         | 2.68       | 4.5        | 100  | 114        |      |      |      |      |      |      |      |      |  |
| CS504AF        | 2.85       | 4.6        | 100  | 110        |      |      |      |      |      |      |      |      |  |
| Hesbana        | 2.46       | 4.0        | 91   |            | 116  |      |      |      |      |      |      |      |  |
| SV3628QH       | 2.97       | 4.3        | 82   |            | 106  | 127  |      |      |      |      |      |      |  |
| PLS534         | 1.95       | 3.9        |      |            | 101  | 112  |      |      |      |      |      |      |  |
| Austin         | 2.06       | 4.4        | 77   |            | 102  | 115  |      |      |      |      |      |      |  |
| M-14           | 2.24       | 3.7        |      |            |      |      | 105  |      |      |      |      |      |  |
| CS560DAF       | 2.28       | 3.6        |      |            | 94   | 100  | 124  |      |      |      |      |      |  |
| Portage        | 2.32       | 3.4        |      |            |      | 93   |      |      |      | 158  |      |      |  |
| SVQH2015       | 2.35       | 3.2        |      |            |      |      | 95   |      |      |      |      |      |  |
| BSC312         | 2.66       | 3.6        |      |            |      |      |      | 111  |      |      |      |      |  |
| BSC304         | 2.17       | 3.4        |      |            |      |      |      | 119  |      |      |      |      |  |
| SVQF2070       | 2.26       | 3.3        |      |            |      |      | 99   | 111  |      |      |      |      |  |
| Reliance       | 2.53       | 3.2        |      |            |      |      |      | 103  |      |      |      |      |  |
| PLS613-89      | 1.90       | 2.6        |      |            |      |      |      | 101  |      |      |      |      |  |
| ASR 40.3030    | 2.36       | 2.8        |      |            |      |      |      |      |      | 139  |      |      |  |
| DGL0062 (Kudo) | 2.03       | 3.7        |      |            |      |      |      |      |      |      | 135  |      |  |
| Idalgo         | 2.85       | 3.8        |      |            |      |      |      |      |      | 125  |      |      |  |
| BSC471         | 2.15       | 2.8        |      |            |      |      |      |      |      | 107  |      |      |  |
| SVQB2566       | 1.90       | 2.2        |      |            |      |      |      |      |      | 107  |      |      |  |
| SV3946QB       | 1.70       | 2.7        |      |            |      |      |      |      |      | 94   | 100  | 122  |  |



Late Planting - Belmont, ON

# **Season Summary**

Due to constant rain conditions the trial was planted later than desired. Field conditions were good at planting. Temperatures were higher than optimal following planting and remained high throughout the season. Heat units accumulated quickly due to high day and nighttime temperatures.

Mycosphaerella blight symptoms appeared around the third week of July and impacted all varieties relatively equally. Infection level did not appear to be severe enough to impact reproduction.

Weed control was good, with escapes being removed by hand throughout the season.

Harvest started July 26th, forty-four (44) days after planting and continued until August 16th, sixty-five (65) days after planting.

#### Low (\*C) 17.3 25.1 8.6 16 29.3 18.4 30 33.7 16.0 34.3 21.6 30 22.2 21 33.2 22.1 30 2.29 33.4 19.5 30 0.25 23 26.7 17.0 30 1 27 24 28.6 15.3 n 29.2 16.1 2.03 22.4 13.1 0 28 23.9 8.6 21 0 29.1 17.4 15.75 10.1

| Total Air HU        | 1899   |
|---------------------|--------|
| Total Precip. (mm)  | 180.34 |
| Total Precip. (in.) | 7.1    |

Daily HUs were calculated using daily maximum and minimum temperatures. When the calculated daily HUs exceeded 30, the daily total was manually adjusted to 30.

## Weather

|      |           |          | auı      | CI.                |
|------|-----------|----------|----------|--------------------|
| July | High (*C) | Law (*C) | Daily HU | Daily Precip. (mm) |
| 1    | 27.9      | 7.8      | 24       | 0                  |
| 2    | 27.5      | 9.8      | 26       | 0                  |
| 3    | 30.9      | 18.4     | 30       | 0                  |
| 4    | 31.4      | 16.8     | 30       | 0                  |
| 5    | 32.5      | 16.5     | 30       | 0                  |
| 6    | 28.6      | 16.9     | 30       | 0                  |
| 7    | 30.2      | 14.6     | 30       | 0                  |
| 8    | 31.2      | 15.6     | 30       | 0                  |
| 9    | 28.7      | 19.8     | 30       | 0                  |
| 10   | 25.0      | 18.0     | 30       | 44.7               |
| 11   | 27.9      | 17.9     | 30       | 0                  |
| 12   | 30.8      | 15.2     | 30       | 0                  |
| 13   | 33.7      | 15.9     | 30       | 0                  |
| 14   | 30.9      | 18.1     | 30       | 0.51               |
| 15   | 28.8      | 18.8     | 30       | 49.28              |
| 16   | 30.2      | 19.8     | 30       | 14.48              |
| 17   | 29.1      | 17.9     | 30       | 0.25               |
| 18   | 23.8      | 13.4     | 25       | 0                  |
| 19   | 28.3      | 9.8      | 26       | 0                  |
| 20   | 28.7      | 12.2     | 29       | 0                  |
| 21   | 30.0      | 13.9     | 30       | 0                  |
| 22   | 30.2      | 15.4     | 30       | 1.27               |
| 23   | 29.7      | 14.9     | 30       | 0                  |
| 24   | 25.4      | 17.5     | 30       | 0                  |
| 25   | 27.5      | 13.3     | 29       | 0                  |
| 26   | 30.0      | 9.9      | 28       | 0                  |
| 27   | 31.4      | 11.4     | 30       | 0                  |
| 28   | 31.6      | 12.8     | 30       | 0                  |
| 29   | 32.7      | 14.8     | 30       | 0                  |
| 30   | 29.9      | 21.4     | 30       | 15.24              |
| 31   | 32.9      | 21.0     | 30       | 0                  |

| August | High (*C) | Low (*C) | Daily HU | Daily Precip. (mm) |
|--------|-----------|----------|----------|--------------------|
| 1      | 33.5      | 20.8     | 30       | 0                  |
| 2      | 29.9      | 21.3     | 30       | 6.1                |
| 3      | 31.9      | 18.8     | 30       | 0                  |
| 4      | 31.2      | 17.3     | 30       | 0                  |
| 5      | 30.8      | 20.9     | 30       | 2.03               |
| 6      | 20.9      | 15.6     | 25       | 16.25              |
| 7      | 26.3      | 13.7     | 28       | 0                  |
| 8      | 27.6      | 14.8     | 30       | 0.51               |
| 9      | 27.2      | 14.6     | 30       | 0.51               |
| 10     | 23.9      | 12.8     | 25       | 0                  |
| 11     | 23.7      | 14.3     | 26       | 0                  |
| 12     | 25.2      | 12.9     | 26       | 0                  |
| 13     | 25.5      | 15.6     | 29       | 0                  |
| 14     | 31.8      | 12.5     | 30       | 0                  |
| 15     | 30.0      | 12.6     | 30       | 0                  |
| 16     | 26.7      | 17.1     | 30       | 7.11               |



### **Small Sieve Peas**

| Natalie         46           BSC489         50           EXP098         51           Nitro         52           ASR40.2007         52           DGF0086         54           Valese (ASR40.4021)         54 | 1350<br>1470<br>1500<br>1530<br>1530 | 15.1%<br>11.4%<br>9.4% | 36.5%<br>46.8% | 16.8%<br>45.7%<br>41.0% | 2.0% | 0.3%<br>0.7% | 1.9   | 2.4     | 1.18 | 113 | 4.44      |      |      |      |
|---|--------------------------------------|------------------------|----------------|-------------------------|------|--------------|-------|---------|------|-----|-----------|------|------|------|
| EXP098 51 Nitro 52 ASR40.2007 52 DGF0086 54   | 1500<br>1530<br>1530                 | 11.4%<br>9.4%          | 46.8%          |                         |      | 0.7%         |       |         | 1.10 | 113 | 1.14      | 71%  | 101% |      |
| Nitro         52           ASR40.2007         52           DGF0086         54   | 1530<br>1530                         | 9.4%                   |                | 41.0%                   |      |              | 2.4   | 2.3     | 1.69 | 113 | * 1.63 ** | 102% |      |      |
| ASR40.2007 52<br>DGF0086 54   | 1530                                 |                        | 37.2%          |                         | 0.7% | 0.2%         | 2.3   | 1.9     | 2.32 | 126 | 2.08      | 130% |      |      |
| DGF0086 54  |                                      |                        | 01.270         | 52.2%                   | 0.8% | 0.4%         | 2.5   |         | 2.09 | 139 | 1.79 **   | 112% | 123% | 110% |
|   | 1500                                 | 14.8%                  | 46.4%          | 36.5%                   | 1.3% | 1.0%         | 2.3   |         | 1.82 | 120 | * 1.69    | 106% |      |      |
| Valese (ASR40.4021) 54  | 1330                                 | 19.5%                  | 42.6%          | 36.5%                   | 1.5% | 0.0%         | 2.2   | 2.1     | 1.43 | 113 | 1.39      | 87%  |      |      |
| ***************************************   | 1590                                 | 11.8%                  | 32.3%          | 55.3%                   | 0.6% | 0.0%         | 2.4   | 2.6     | 2.04 | 108 | 2.08      | 130% | 156% |      |
| CS561DAF 54   | 1590                                 | 9.3%                   | 32.4%          | 56.5%                   | 1.6% | 0.2%         | 2.5   | 2.3     | 2.25 | 117 | * 2.13 ** | 133% |      |      |
| CS565F 55   | 1615                                 | 13.1%                  | 29.0%          | 50.1%                   | 7.0% | 0.7%         | 2.5   | 2.1     | 1.86 | 124 | 1.69 **   | 106% |      |      |
| CS522AF 55  | 1615                                 | 9.8%                   | 33.0%          | 56.0%                   | 1.0% | 0.2%         | 2.5   | 2.4     | 2.22 | 120 | 2.06      | 129% |      | 99%  |
| CS533F 56   | 1643                                 | 22.6%                  | 33.4%          | 40.5%                   | 2.9% | 0.6%         | 2.3   | 1.9     | 1.37 | 105 | 1.44      | 90%  | 59%  |      |
| CS564AF 56  | 1643                                 | 14.0%                  | 41.9%          | 43.0%                   | 1.1% | 0.0%         | 2.3   | 2.2     | 1.96 | 117 | 1.86      | 116% |      |      |
| BSC482 56   | 1643                                 | 27.2%                  | 48.6%          | 22.0%                   | 1.3% | 1.0%         | 2.0   | 2.1     | 1.36 | 110 | 1.36      | 85%  |      |      |
| Flovert 57  | 1673                                 | 30.1%                  | 53.0%          | 16.2%                   | 0.7% | 0.0%         | 1.9   | 2.1     | 1.29 | 113 | 1.25      | 78%  |      |      |
| CS568AF 60  | 1754                                 | 25.5%                  | 55.2%          | 17.8%                   | 1.2% | 0.3%         | 2.0   | 2.2     | 1.42 | 119 | 1.33      | 83%  |      |      |
| PL0122 60   | 1754                                 | 50.3%                  | 38.9%          | 9.6%                    | 1.2% | 0.0%         | 1.6   | 2.2     | 0.73 | 122 | 0.67      | 42%  | 73%  |      |
|   |                                      |                        |                |                         |      | -            | Trial | Average | 1.69 | 117 | 1.60      | 1.60 | 1.29 | 1.58 |

| Harvest Data        |                          |      |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |      |      |      |
|---------------------|--------------------------|------|------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|------|
| Varieties           | Da                       | Date |      | 7/27 | 7/28 | 7/29 | 7/30 | 7/31 | 8/1  | 8/2  | 8/3    | 8/4  | 8/5  | 8/6  | 8/7  | 8/8  | 8/9  | 8/10 | 8/11 | 8/12 |
|                     | Acc. HU                  |      | 1290 | 1320 | 1350 | 1380 | 1410 | 1440 | 1470 | 1500 | 1530   | 1560 | 1590 | 1615 | 1643 | 1673 | 1703 | 1728 | 1754 | 1780 |
| PETITE PEAS         | Adj. Avg.<br>Yield Sieve |      |      |      |      |      |      |      |      |      | PETITE | PEAS |      |      |      |      |      |      |      |      |
| Natalie             | 1.14                     | 1.9  | 94   |      | 113  |      |      |      |      |      |        |      |      |      |      |      |      |      |      |      |
| BSC489              | 1.63                     | 2.4  |      |      |      |      | 87   |      | 113  |      |        |      |      |      |      |      |      |      |      |      |
| EXP098              | 2.08                     | 2.3  |      |      |      | 71   |      |      | 105  | 126  |        |      |      |      |      |      |      |      |      |      |
| Nitro               | 1.79                     | 2.5  |      |      |      |      | 77   |      | 91   |      | 139    |      |      |      |      |      |      |      |      |      |
| ASR40.2007          | 1.69                     | 2.3  |      |      |      |      |      |      | 87   |      | 120    |      |      |      |      |      |      |      |      |      |
| DGF0086             | 1.39                     | 2.2  |      |      |      |      |      |      |      |      | 100    |      | 113  |      |      |      |      |      |      |      |
| Valese (ASR40.4021) | 2.08                     | 2.4  |      |      |      |      |      |      |      |      | 88     |      | 108  | 126  |      |      |      |      |      |      |
| CS561DAF            | 2.13                     | 2.5  |      |      |      |      |      |      |      |      | 92     |      | 117  |      |      |      |      |      |      |      |
| CS565F              | 1.69                     | 2.5  |      |      |      |      |      |      |      |      | 82     |      | 97   | 124  |      |      |      |      |      |      |
| CS522AF             | 2.06                     | 2.5  |      |      |      |      |      |      |      |      | 78     |      |      | 120  |      |      |      |      |      |      |
| CS533F              | 1.44                     | 2.3  |      |      |      |      |      |      |      |      | 77     |      |      | 96   | 105  |      |      |      |      |      |
| CS564AF             | 1.86                     | 2.3  |      |      |      |      |      |      |      |      |        |      | 90   | 107  | 117  |      |      |      |      |      |
| BSC482              | 1.36                     | 2    |      |      |      |      |      |      |      |      |        |      |      | 99   | 110  |      |      |      |      |      |
| Flovert             | 1.25                     | 1.9  |      |      |      |      |      |      |      |      |        |      |      | 104  | 103  | 113  |      |      |      |      |
| CS568AF             | 1.33                     | 2    |      |      |      |      |      |      |      |      |        |      |      |      | 86   | 86   |      |      | 119  |      |
| PL0122              | 0.67                     | 1.6  |      |      |      |      |      |      |      |      |        |      |      |      |      | 82   |      |      | 122  |      |



## **Large Sieve Peas**

| Variety     | Growing<br>Days | Acc Air<br>HU | Sieve<br>1 | Sieve<br>2 | Sieve<br>3 | Sieve<br>4 | Sieve<br>5 | Avg<br>Sieve | Expected<br>Sieve | Unadjuste<br>d Yield<br>(tons/acre) | Avg<br>TD | Adjusted Yield (tons/acre) | Yield Index<br>(2024) | Yield Index<br>(2023) | Yield Index<br>(2022) |
|-------------|-----------------|---------------|------------|------------|------------|------------|------------|--------------|-------------------|-------------------------------------|-----------|----------------------------|-----------------------|-----------------------|-----------------------|
| PLS613-89   | 51              | 1500          | 7.5%       | 23.9%      | 62.4%      | 5.2%       | 1.0%       | 2.7          | 2.7               | 2.12                                | 120       | 1.98                       | 108%                  | 79%                   |                       |
| ASR 40.3030 | 52              | 1530          | 2.7%       | 6.1%       | 48.1%      | 34.3%      | 8.9%       | 3.4          |                   | 2.45                                | 117       | 2.33                       | 127%                  |                       |                       |
| Reliance    | 52              | 1530          | 2.9%       | 6.2%       | 48.1%      | 35.2%      | 7.6%       | 3.4          |                   | 2.53                                | 122       | 2.32                       | 127%                  | 141%                  | 112%                  |
| PLS566      | 52              | 1530          | 3.0%       | 5.9%       | 27.6%      | 37.5%      | 26.0%      | 3.8          | 4.2               | 2.29                                | 120       | * 2.13                     | 116%                  | 114%                  |                       |
| BSC471      | 52              | 1530          | 7.7%       | 14.1%      | 53.9%      | 20.5%      | 3.7%       | 3.0          | 2.8               | 1.63                                | 103       | 1.75                       | 95%                   |                       |                       |
| Idalgo      | 52              | 1530          | 1.2%       | 3.3%       | 18.2%      | 50.5%      | 26.9%      | 4.0          |                   | 2.64                                | 126       | 2.38                       | 130%                  |                       |                       |
| SVQB2566    | 54              | 1590          | 21.5%      | 37.4%      | 39.8%      | 1.0%       | 0.4%       | 2.2          | 2.8               | 1.12                                | 109       | 1.13 **                    | 62%                   |                       |                       |
| SV3946QB    | 54              | 1590          | 13.5%      | 23.7%      | 58.6%      | 4.2%       | 0.0%       | 2.5          | 2.8               | 1.45                                | 112       | 1.42                       | 77%                   | 69%                   | 111%                  |
| PLS602      | 54              | 1590          | 5.3%       | 13.7%      | 65.3%      | 15.1%      | 0.7%       | 2.9          | 3.1               | 2.46                                | 122       | 2.26                       | 123%                  |                       |                       |
| BSC799      | 56              | 1643          | 6.3%       | 9.7%       | 38.2%      | 35.9%      | 9.9%       | 3.3          | 3.4               | 1.93                                | 104       | 2.05                       | 112%                  |                       |                       |
| EXP649      | 57              | 1673          | 2.4%       | 5.6%       | 17.1%      | 37.2%      | 37.7%      | 4.0          | 4.3               | 1.78                                | 108       | 1.82                       | 99%                   |                       |                       |
| SV5685QG    | 65              | 1899          | 4.8%       | 9.5%       | 44.8%      | 26.7%      | 14.3%      | 3.4          | 4.3               | 0.33                                | 95        | 0.42                       | 23%                   | 47%                   | 127%                  |
|             |                 |               |            |            |            |            |            | Trial        | Average           | 1.89                                | 113       | 1.83                       | 1.83                  | 2.00                  | 1.99                  |
|             |                 |               |            |            |            |            |            |              |                   |                                     |           |                            |                       |                       |                       |

One harvested replication from marked varieties was impa

# **Harvest Data**

| Tidi vest bata |                          |             |              |              |              |              |              |  |             |             |             |             |             |             |             |             |             |              |              |              |              |  |              |    |  |
|----------------|--------------------------|-------------|--------------|--------------|--------------|--------------|--------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--|--------------|----|--|
| Varieties      |                          | ate<br>. HU | 7/26<br>1290 | 7/27<br>1320 | 7/28<br>1350 | 7/29<br>1380 | 7/30<br>1410 |  | 8/1<br>1470 | 8/2<br>1500 | 8/3<br>1530 | 8/4<br>1560 | 8/5<br>1590 | 8/6<br>1615 | 8/7<br>1643 | 8/8<br>1673 | 8/9<br>1703 | 8/10<br>1728 | 8/11<br>1754 | 8/12<br>1780 | 8/13<br>1809 |  | 8/15<br>1869 |    |  |
| LARGE<br>PEAS  | Adj. Avg.<br>Yield Sieve |             |              |              |              |              |              |  |             |             |             | L           | LARGE PEAS  |             |             |             |             |              |              |              |              |  |              |    |  |
| PLS613-89      | 1.98                     | 2.7         |              |              |              |              |              |  | 101         | 120         |             |             |             |             |             |             |             |              |              |              |              |  |              |    |  |
| ASR 40.3030    | 2.33                     | 3.4         |              |              |              |              |              |  |             | 106         | 117         |             |             |             |             |             |             |              |              |              |              |  |              |    |  |
| Reliance       | 2.32                     | 3.4         |              |              |              |              |              |  |             | 105         | 122         |             |             |             |             |             |             |              |              |              |              |  |              |    |  |
| PLS566         | 2.13                     | 3.8         |              |              |              |              |              |  |             | 106         | 120         |             |             |             |             |             |             |              |              |              |              |  |              |    |  |
| BSC471         | 1.75                     | 3.0         |              |              |              |              |              |  |             |             | 103         |             |             |             |             |             |             |              |              |              |              |  |              |    |  |
| Idalgo         | 2.38                     | 4.0         |              |              |              |              |              |  | 88          |             | 126         |             |             |             |             |             |             |              |              |              |              |  |              |    |  |
| SVQB2566       | 1.13                     | 2.2         |              |              |              |              |              |  |             | 84          |             |             | 109         |             |             |             |             |              |              |              |              |  |              |    |  |
| SV3946QB       | 1.42                     | 2.5         |              |              |              |              |              |  |             |             | 90          |             | 112         |             |             |             |             |              |              |              |              |  |              |    |  |
| PLS602         | 2.26                     | 2.9         |              |              |              |              |              |  |             |             | 95          |             | 122         |             |             |             |             |              |              |              |              |  |              |    |  |
| BSC799         | 2.05                     | 3.3         |              |              |              |              |              |  |             |             |             |             | 84          | 102         | 104         |             |             |              |              |              |              |  |              |    |  |
| EXP649         | 1.82                     | 4.0         |              |              |              |              |              |  |             |             |             |             |             | 96          | 95          | 108         |             |              |              |              |              |  |              |    |  |
| SV5685QG       | 0.42                     | 3.4         |              |              |              |              |              |  |             |             |             |             |             |             |             |             |             |              |              |              |              |  |              | 95 |  |

<sup>\*\*</sup> One harvested replication from marked varieties was impacted by an undiagnosed environmental problem