



2020 Irrigated Confection Sunflower Hybrid  
Performance Trial at Prospect Valley

| Brand                        | Hybrid    | Technology<br>Traits <sup>a</sup> | Yield <sup>b</sup><br>lb/ac | Moisture<br>percent | Test<br>Weight<br>lb/bu | Plant<br>Height<br>in | Population<br>plants/ac | Seed Retained Over Screen |               |               |               |
|------------------------------|-----------|-----------------------------------|-----------------------------|---------------------|-------------------------|-----------------------|-------------------------|---------------------------|---------------|---------------|---------------|
|                              |           |                                   |                             |                     |                         |                       |                         | Over<br>24/64             | Over<br>22/64 | Over<br>20/64 | Over<br>16/64 |
| Royal Hybrid                 | RH609CLP  | Clearfield Plus                   | <b>3396</b>                 | 11.9                | 20.8                    | 61                    | 17,002                  | 35.9                      | 29.8          | 24.3          | 8.2           |
| Red River Commodities        | RRC 2414  | N/A                               | <b>3230</b>                 | 12.9                | 21.2                    | 66                    | 18,408                  | 33.0                      | 21.4          | 15.1          | 24.6          |
| Royal Hybrid                 | 8D310CL*  | Clearfield                        | <b>3198</b>                 | 12.6                | 25.9                    | 58                    | 17,986                  | 12.5                      | 7.8           | 8.5           | 65.9          |
| Royal Hybrid                 | 20-EXP05* | Clearfield                        | <b>3167</b>                 | 12.4                | 25.4                    | 59                    | 19,672                  | 11.1                      | 8.2           | 8.5           | 61.7          |
| Royal Hybrid                 | RH1121    | N/A                               | 3049                        | 12.6                | 21.8                    | 54                    | 13,771                  | 47.0                      | 29.1          | 16.9          | 6.0           |
| Royal Hybrid                 | 20-EXP3   | ExpressSun                        | 2971                        | 12.7                | 20.8                    | 58                    | 13,490                  | 39.3                      | 28.0          | 18.9          | 11.6          |
| Red River Commodities        | EX 97404  | N/A                               | 2557                        | 13.7                | 19.7                    | 57                    | 9,696                   | 64.4                      | 18.1          | 7.7           | 7.7           |
| Royal Hybrid                 | 15-EXP02  | ExpressSun                        | 2555                        | 14.3                | 18.1                    | 64                    | 7,166                   | 59.7                      | 24.5          | 9.9           | 4.8           |
| Red River Commodities        | RRC 2319  | N/A                               | 2409                        | 12.8                | 20.0                    | 62                    | 11,522                  | 48.9                      | 20.2          | 11.5          | 14.8          |
| Red River Commodities        | RRC 2310  | N/A                               | 1958                        | 15.5                | 20.0                    | 59                    | 11,241                  | 56.1                      | 23.6          | 13.2          | 5.7           |
| <b>Average</b>               |           |                                   | <b>2849</b>                 | <b>13.1</b>         | <b>21.4</b>             | <b>60</b>             | <b>13,995</b>           | <b>40.8</b>               | <b>21.1</b>   | <b>13.5</b>   | <b>21.1</b>   |
| <sup>c</sup> LSD (P<0.30)    |           |                                   | 239                         |                     |                         |                       |                         |                           |               |               |               |
| <sup>c</sup> LSD (P<0.05)    |           |                                   | 463                         |                     |                         |                       |                         |                           |               |               |               |
| Coefficient of Variation (%) |           |                                   | 11.8                        |                     |                         |                       |                         |                           |               |               |               |

\*Hybrids with an asterisk are conoil type hybrids.

<sup>a</sup>Technology trait designations: Clearfield and Clearfield Plus=tolerant to Beyond herbicide; ExpressSun=tolerant to Express herbicide; N/A=no technology traits.

<sup>b</sup>Yields were corrected to 10% moisture at harvest. Hybrids in the top yield group (P<0.30) are bolded.

<sup>c</sup>If the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant. Hybrid yields in the top yield group (P<0.30) are in bold. Farmers should use the LSD (P<0.30) for selecting superior hybrids to minimize economic loss due to false negative results and others may use LSD (P<0.05) to minimize the risk of false positive results.

**Site Information**

Collaborator: Tim Trupp  
Planting Date: June 2, 2020  
Harvest Date: October 20, 2020  
Soil Type: Colby loam  
GPS Coordinates: 40.0742, -104.411

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