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Table 1. 2007 Irrigated Safflower Variety Trial at Logan, Utah (Cache Co.).

GPS: 41°45'56.33" N 111°48'50.33" W

Planting Rate 25 lbs PLS/A, Planted 4/17/07 , Harvested 9/18/07,

Soil Type: Millville Silt Loam. Elevation 4608 ft.

Applications 50 units of N, 25 units of P and 1.5 pts of Sonalan herbicide at pre-planting.

Previous crop: fallow. 10 hours of irrigation (3 total inches).

| Variety                | Seed Production<br>lb DM/ac | Test Weight<br>lb/bu | Color Score | Oil Content<br>% | Gross Income<br>/acre* |
|------------------------|-----------------------------|----------------------|-------------|------------------|------------------------|
| Hybrid 9049            | 2084                        | 43.4                 | 2.3         | 34.1             | 386                    |
| Hybrid16               | 1846                        | 41.1                 | 4.3         | 37.4             | 342                    |
| SeedTec 3151           | 1633                        | 40.5                 | 4.0         | 39.8             | 302                    |
| SeedTec S-719          | 1622                        | 42.3                 | 3.0         | 39.5             | 300                    |
| SeedTec 1133           | 1580                        | 41.9                 | 3.0         | 42.6             | 293                    |
| SeedTec 5244           | 1577                        | 45.5                 | 2.8         | 37.1             | 292                    |
| S-208                  | 1576                        | 41.3                 | 1.6         | 38.1             | 292                    |
| Cardinal               | 1574                        | 45.1                 | 1.0         | 34.8             | 291                    |
| SeedTec 2106           | 1477                        | 42.1                 | 1.0         | 41.4             | 273                    |
| Oleic 5                | 1467                        | 40.1                 | 6.0         | 41.6             | 272                    |
| SeedTec 5232           | 1409                        | 43.0                 | 1.0         | 39.1             | 261                    |
| MonDak                 | 1349                        | 42.0                 | 2.3         | 36.5             | 250                    |
| SeedTec 4409           | 1294                        | 43.6                 | 2.3         | 38.6             | 240                    |
| Montola 2003           | 1254                        | 41.8                 | 1.3         | 37.9             | 232                    |
| Finch                  | 1172                        | 45.3                 | 1.0         | 35.6             | 217                    |
| Nutrasaff              | 1002                        | 38.1                 | 10.0        | 43.9             | 185                    |
| <b>Mean</b>            | <b>1495</b>                 | <b>42.3</b>          | <b>2.9</b>  | <b>38.6</b>      | <b>277</b>             |
| Significance of F test | <0.01                       | <0.01                | <0.01       | <0.01            | <0.01                  |
| LSD (0.05)             | 316                         | 0.8                  | 0.3         | 0.8              | 58                     |
| LSD (0.30)             | 164                         | 0.4                  | 0.2         | 0.4              | 30                     |
| CV (%)                 | 14.8                        | 1.3                  | 7.3         | 1.5              | 14.8                   |

\* Gross income is figured on seed production at \$18.50 per cwt. Crop inputs (water, fertilizer, pesticides, equipment costs), color score, test weight and oil content were not figured into the gross income figure.

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**Table 2. 3-Year Average Production Results for Irrigated Safflower Variety Trial at Logan, Utah (Cache Co.).**

| Variety                | Production Year |             |             | 3-Year Average |
|------------------------|-----------------|-------------|-------------|----------------|
|                        | 2005            | 2006        | 2007        |                |
| ----- Lbs. DM/ac ----- |                 |             |             |                |
| Hybrid 9049-1          |                 | 1945        | 2084        | <b>2015</b>    |
| Hybrid 16              |                 |             | 1846        | <b>1846</b>    |
| SeedTec 5244           | 1885            | 1922        | 1577        | <b>1795</b>    |
| SeedTec 1143           |                 | 1777        |             | <b>1777</b>    |
| S-208                  | 1943            | 1768        | 1576        | <b>1762</b>    |
| SeedTec S-719          | 1801            | 1850        | 1622        | <b>1758</b>    |
| SeedTec 4409           | 1934            | 2027        | 1294        | <b>1752</b>    |
| SeedTec 9262           | 1950            | 1529        |             | <b>1740</b>    |
| Hybrid 9022            | 1676            | 1712        |             | <b>1694</b>    |
| Hybrid 9049-2          |                 | 1673        |             | <b>1673</b>    |
| SeedTec 1133           |                 | 1699        | 1580        | <b>1640</b>    |
| SeedTec 3151           |                 |             | 1633        | <b>1633</b>    |
| SeedTec 2109           |                 | 1618        |             | <b>1618</b>    |
| Cardinal               |                 |             | 1574        | <b>1574</b>    |
| Finch                  | 1802            | 1477        | 1172        | <b>1484</b>    |
| SeedTec 2106           |                 |             | 1477        | <b>1477</b>    |
| Oleic 5                |                 |             | 1467        | <b>1467</b>    |
| Montola 2003           | 1536            | 1579        | 1254        | <b>1456</b>    |
| SeedTec 5232           |                 |             | 1409        | <b>1409</b>    |
| MonDak                 |                 |             | 1349        | <b>1349</b>    |
| Nutrasaff              | 1440            | 1248        | 1002        | <b>1230</b>    |
| <b>Average</b>         | <b>1774</b>     | <b>1702</b> | <b>1495</b> | <b>1626</b>    |