

**2010 Clearfield Lentil Variety Trial – Continuously Cropped - No-till**

**Hettinger**

| Variety                      | Days to Bloom | Plant Ht. | Lodging | 1000 Seed wt. | Test Weight | Seed Yield |      |      | Average Yield |      |
|------------------------------|---------------|-----------|---------|---------------|-------------|------------|------|------|---------------|------|
|                              | *             | inches    | 0-9**   | grams         | lbs/bu      | 2008       | 2009 | 2010 | 2 yr          | 3 yr |
| ----- pounds per acre -----  |               |           |         |               |             |            |      |      |               |      |
| <b>Large Green Type</b>      |               |           |         |               |             |            |      |      |               |      |
| CDC Improve                  | 65            | 16        | 2.2     | 76.8          | 57.0        | 985        | 1918 | 1432 | 1675          | 1445 |
| <b>Medium Green Type</b>     |               |           |         |               |             |            |      |      |               |      |
| CDC Impress                  | 65            | 14        | 4.5     | 56.2          | 58.0        | 1364       | 2249 | 1543 | 1896          | 1719 |
| <b>Small Red Types</b>       |               |           |         |               |             |            |      |      |               |      |
| CDC Maxim                    | 63            | 15        | 0.5     | 44.2          | 61.0        | 1227       | 2234 | 2255 | 2244          | 1905 |
| CDC Impact                   | 62            | 14        | 2.2     | 39.8          | 61.0        | 537        | 1645 | 1593 | 1619          | 1258 |
| <b>Extra Small Red Types</b> |               |           |         |               |             |            |      |      |               |      |
| CDC Imperial                 | 64            | 15        | 4.0     | 34.2          | 60.0        | 758        | 2035 | 2290 | 2162          | 1694 |
| CDC Impala                   | 66            | 15        | 3.5     | 34.6          | 61.3        | 729        | 1939 | 2215 | 2077          | 1628 |
| Trial Mean                   | 64            | 15        | 2.8     | 47.6          | 59.7        | 1056       | 2003 | 1888 | --            | --   |
| C.V. %                       | 1.0           | 7.7       | 53      | 2.2           | 1.6         | 13.2       | 9.9  | 6.6  | --            | --   |
| LSD .05                      | 1             | NS        | 2.2     | 1.6           | 1.5         | 197        | 299  | 189  | --            | --   |
| LSD .01                      | 1             | NS        | NS      | 2.2           | 2.1         | 262        | 414  | 261  | --            | --   |

\* Days to Bloom = the number of days from planting to 10% flowering.

\*\* Lodging: 0 = none, 9 = lying flat on the ground.

NS = no statistical difference between varieties.

Planting Date: April 19

Harvest Date: August 18

Seeding Rate: 550,000 live seeds / acre.

Previous Crop: 2007 & 2008 = hrsw, 2009 = durum.

Note: The 2008 trial sustained severe late season heat and moisture stress.

The 2009 trial sustained moderate hail damage.