**Cover Crop Planting Date Study**

The cover crop planting date research trial compared winter rye establishment and growth at 8 different planting dates.



**Figure 1. Effect of planting date on winter rye dry matter yield per acre. Values with the same**

**letter did not perform significantly differently (P < 0.10).**

**Seeding Rate Trial**

The cover crop seeding rate trial will compare establishment and growth of winter rye at seeding rates of 75, 100, and 125 lbs per acre and compared the ability of cover crops seeded at the above rates to provide adequate soil coverage and conserve nitrogen for the next crop.

 **Figure 3. Effect of seeding rate on winter rye dry matter yield per acre. Values with the same letter did not**

**perform significantly differently (P < 0.10).**

**Cover Crop Seeding Methods:**

The cover crop seeding method trial compared different methods used for planting cover crops. There were 4 replicates of each treatment and the plot size was 10’ x 25’. The tillage implement was run across the plots and then 100 lbs per acre of winter rye was broadcast seeded.

Table 3. Cover crop growth according to incorporation method.

|  |  |  |  |
| --- | --- | --- | --- |
| Incorporation method | 2-Apr-10 | 22-Apr-10 | 10-May-10 |
| DM yield | Height | DM yield | Cover crop N |
| lbs/ac | in | lbs/ac | % | lbs/ac |
| Aerway 0° | 174 | 19.3 | 1780 | 2.15 | 38.2 |
| Aerway 10° | 318 | 25.6\* | 2160 | 2.05 | 44.2 |
| Aerway 15° | **440\*** | 24.8\* | 2720\* | 1.89 | 51.6 |
| Broadcast | 167 | 17.3 | 1230 | 2.05 | 25.2 |
| Chisel | 266 | **28.6\*** | **2990\*** | **2.398** | **71.3\*** |
| Disk | 320 | 21.6 | 1800 | 1.97 | 35.1 |
|   |  |  |  |  |   |
| LSD (0.10) | 108 | 5.82 | 551 | 0.23 | 12.4 |
| Mean | 281 | 22.8 | 2110 | 2.08 | 44.3 |