**Cover Crop Demonstration: Not What Grandpa Used to Grow!**

**Stanton’s Feura Farm, Feura Bush**

**October 13, 2016**

**Trial layout and particulars:**

**Sweet Corn Field Preparation, Planting and Fertility:**

 An Unverferth Zone Builder prepared strips on April 13, 2016.

 Sweet corn was planted across the field on April 15, 31 and May 11, 2016 using a JD 7200 MaxiMerge Conservation finger pickup planter.

 250 pounds of 12-24-24 starter fertilizer was applied at planting through the planter.

 26 gallons of 32% nitrogen (3.5 lbs. N per gallon) was placed 6-8” deep in the zones with the zone builder.

 20 tons of manure was also applied.

**Herbicides Used:**

 1 pint of atrazine plus 3 ounces of Callisto plus 1 pint Dual II Magnum was applied pre-emergent to each planting.

 On June 21, a post emergent application of 0.9 ounces of Accent plus 1 pint of atrazine plus 1 quart of oil was applied to later sweet corn plantings.

**Cover Crop Plantings:**

 Sweet corn harvest began on July 14, 2016 and was harvested across the field as the different plantings came into maturity.

 Planting 1: August 5, 2016 and was planted directly into standing sweet corn with a 15’ JD 750 No-Till Drill on 7.5 inch spacing. Seeding depth was set to 1.5 inches for everything, with 600 PSI on the planter gauge. The different seeding rates were pre-determined and we selected the seed box and closest gate settings on the drill that corresponded with those rates.

 Planting 2 and 3: August 25 and September 15, 2016. For these plantings the sweet corn was actually rolled with a culti-packer and sprayed with 2 quarts of Glyphosate on August 15, 2016. This was done because of a higher density of weeds had come in compared to the first cover crop planting date.

**Precipitation: Data collected from the Network for Environment and Weather Applications (NEWA),**

**Albany Airport site.**

 July 29—7-31 = 4.14 inches of rain (prior to first cover crop planting)

 August 1—6 = 1.44 inches (before and right after first cover crop planting)

 August 10-16 = 1.56 inches

 August 16—31 = 0.66 inches (just before and right after second cover crop planting)

 September 1—15 = 0.80 (before third cover crop planting)

 September 16—30 = 1.40 (after third cover crop planting)

 **Total for trial: 10.0 inches (not including October)**