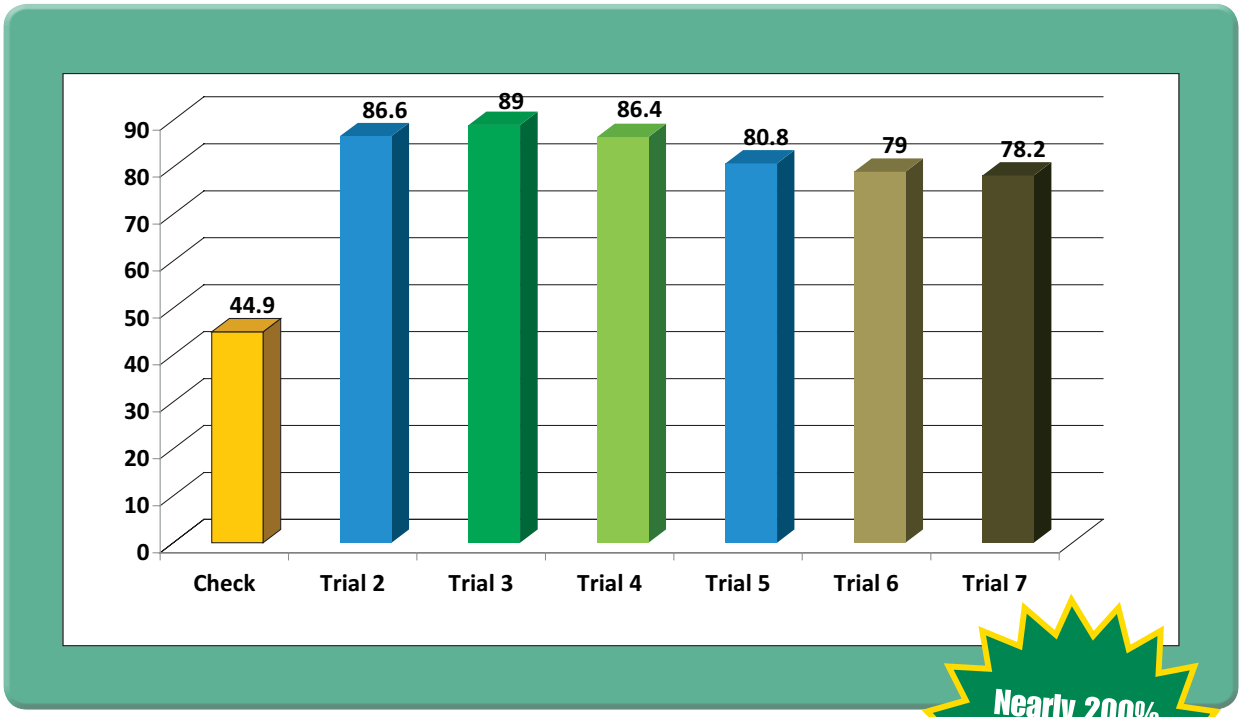
MONTY'S PLANT & SOIL PRODUCTS

# Field Test Data

## 2012 Monty's Wheat Plant Food Study

**Summary of 2012 wheat study: across all 4 tillage studies**




Nearly 200% increase in yield with Monty's Liquid Carbon!

Study conducted by Ron Mulford
University of Maryland Poplar Hill Research and Education Center
Quantico, Maryland. Soil Type: Mattapex Silt Loam

Trial 1: Average over Checks

Trial 2: Average over Nitrogen only, fall and spring

Trial 3: Average over Nitrogen plus Monty's Plant food fall and spring

Trial 4: Average over Plant nutrients added per soil test recommendations plus Monty's Liquid Carbon.

Trial 5: Average over No fall fertility, only spring nutrients and pesticides. Soil nutrients were added according to soil test recommendations

Trial 6: Average over No fall fertility, spring fertilizer as trial 5 plus Monty's Liquid Carbon

Trial 7: Average over No fall fertility. Nitrogen plus Monty's Plant Food spring 2012


***Ask how Monty's Liquid Carbon can make a difference***

***Consult your local Monty's dealer or call 1-800-978-6342***

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Field 43 (Block 1)
Monty's Wheat Study Fall 2011/Spring 2012)
Summary of 2012 Study by F. Ronald Mulford
University of Maryland Poplar Hill Research and Education Center, Quantico, Maryland

Tillage Systems Evaluated with Average Yield of Treatments:

| | |
|---|---|
| • Notill wheat following notill corn | 84.1 |
| • Minimum tillage wheat(turbo till 2x before planting) following minimum tillage corn(soil disk 2x before planting corn) | 82.6 |
| • Notill wheat following single crop soybeans | 74.0 |
| • Minimum tillage wheat(turbo till 2x before planting) following minimum tillage soybeans(soil disk 2x before planting soybeans) | 70.6 |

**Experimental Design: split plot w/four replications** ----------**Tillage Systems**----------
**Soil Type: Mattapex Silt Loam, Wheat Variety: Syngenta/Coker 9804**

| | Notill Wheat After Notill Corn | Min. Tillage Wheat after Min Tillage Corn | Notill Wheat After Notill Soybeans | Min Tillage Wheat after Min Tillage Soybeans | |
|---|---|---|---|---|---|
| **Trt #** | **Yield Results are an Average of 4 Replications** | | | **Ave.** | |
| 1. **Check**, **Fall 2011(11/01/11)** preplant broadcast application of 5.6 gal/a of 30% UAN + 13.5 gal/a of Willard's 8-20-5. No additional fertility. **Greenup(02/20/12)**, 35 oz/a of Harmony SG herbicide, Induce nonionic surfactant, water added up to 30.8 gal/a. **Feek's growth stage 5 to 6 (3/22/12),** .35 oz/a of Harmony SG herbicide + 3 oz/a of Warrior Insecticide, + Induce nonionic surfactant, water added up to 30.8 gal/a. | 50.4 | 45.6 | 43.2 | 40.4 | 44.9 |
| 2. N only, Fall and Spring : **Fall 2011(11/01/11)** preplant broadcast application of 30 lbs N/a from 30% UAN**. Greenup(02/20/12)**, 50 lbs N/a from 30% UAN + herbicides of .35 oz/a of Harmony SG and 10 oz/a of 2,4-D(Amine Formulation) + Induce nonionic surfactant, water added up to 30.8 gal/a. **Feek's Growth Stage 5 to 6(3/22/12),** 50 lbs N/a from 30% UAN + .35 oz/a of Harmony SG herbicide + 3 oz/a of Warrior Insecticide + Induce nonionic surfactant, water added up to 30.8 gal/a. | 89.7 | 92.7 | 86.1 | 78.0 | 86.6 |
| 3. N + Monty's Plant Food Fall & Spring. **Fall 2011(11/01/11)** preplant broadcast application of 30 lbs N/a from a blend of 30% UAN and 40 oz/a of Monty's 4-15-12 + 64 oz/a of Monty's Liquid Carbon. **Greenup(02/20/12)**, 50 lbs/a of N from 30% UAN + 24 oz/a of Monty's 8-16-8 + herbicides of .35 oz/a of Harmony SG and 10 oz/a of 2,4-D(amine formulation) + Induce nonionic surfactant, water added up to 30.8 gal/a. **Feek's Growth Stage 5 to 6(3/22/12)**, 50 lbs N/a from 30% UAN +.35 oz/a of Harmony SG herbicide + 3 oz/a of Warrior Insecticide + 32 oz/a of Monty's Liquid Carbon + Induce nonionic surfactant, water added up to 30.8 gal/a. | 94.9 | 97.3 | 84.7 | 78.9 | 89.0 |
| 4. **Plant Nutrients Added per Soil Test Recommendations + Monty's Liquid Carbon. Fall 2011(11/01/11)** preplant broadcast application of 25 gal/a of 2-4-12 + 8 gal/a of 30% UAN + 64 oz/a of Monty's Liquid Carbon. **Greenup(02/20/12)**, 25 gal/a of 2-4-12 + 14 gal/a of 30% UAN + Monty's Liquid Carbon @ 32 oz/a + herbicides of .35 oz/a of Harmony SG and 10 oz/a of 2,4-D(amine formulation) + Induce nonionic surfactant, water added up to 30.8 gal/a. **Feek's Growth Stage 5 to 6(3/22/12)**, 50 lbs N/a from 30% UAN +.35 oz/a of Harmony SG herbicide + 3 oz/a of Warrior Insecticide + 32 oz/a of Monty's Liquid Carbon + Induce nonionic surfactant, water added up to 30.8 gal/a. | 92.5 | 90.4 | 82.3 | 80.4 | 86.4 |
| 5. No Fall Fertility, only Spring Nutrients and Pesticides. Soil Nutrients were added according soil test recommendations. **Greenup(02/20/12)**, 50 gal/a of 2-4-12 blended w/12.3 gal/a of 30% UAN + .35 oz/a of Harmony SG herbicide + 10 oz/a of 2,4-D(amine formulation) + Induce nonionic surfactant, water added up to 70.8 gal/a. **Feeks Growth Stage 5 to 6(3/22/12)**, 50 lbs N/a from 30% UAN +.35 oz/a of Harmony SG herbicide + 3 oz/a of Warrior II Insecticide + Induce nonionic surfactant, water added up to 30.8 gal/a. | 89.2 | 87.4 | 74.2 | 72.3 | 80.8 |
| 6. No Fall Fertility, Spring Fertilizer as 5 + Monty's Liquid Carbon. **Greenup(02/20/12)**, Same as 5 except Monty's Liquid Carbon was added @ 64 oz/a. **Feek's growth 5 to 6(3/22/12).** Same as 5 except Monty's Liquid Carbon was added @ 32 oz/a. | 88.5 | 81.8 | 77.1 | 68.4 | 79.0 |
| 7. No Fall Fertility. **Nitrogen +** Monty's Plant Food Spring 2012. **Greenup(02/20/12)**, 50 lbs N/a from 30% UAN solution + 24 oz/a of Monty's 8-16-8 + Monty's Liquid Carbon @ 32 oz/a + .35 oz/a of Harmony SG herbicide + 10 oz/a of 2,4-D(amine formulation) + Induce nonionic surfactant, water added up to 30.8 gal/a. **Feek's Growth Stage 5 to 6(3/22/12)**, 50 lbs N/a from 30% UAN + .35 oz/a of Harmony SG herbicide + 25 oz/a of Monty's 2-15-15 liquid fertilizer + 32 oz/a of Monty's Liquid Carbon + 3 oz/a of Warrior II insecticide + Induce nonionic surfactant , water added up to 30.8 gal/a. | 83.2 | 82.8 | 70.5 | 76.1 | 78.2 |
| **Average of Columns** | **84.1** | **82.6** | **74.0** | **70.6** | |

**Notes and Conclusions:**

1. Order of adding liquid fertilizers and pesticides to the spray mix at either the Green Up Growth Stage on 02/20/12 or at Feeks Growth Stage 5 to 6 on 3/22/12. 1. 30% UAN, 2. Harmony SG herbicide dissolved in 2 qts of warm water, 3. Liquid fertilizers, 4. 2,4-D(Amine Formulation), 5. Warrior II Insecticide, 6. Induce Nonionic Surfactant, 7. Water to bring the spray mix to the correct application rate.
2. ** Green Up(02/20/12): All treatments received .35 oz/a of Harmony SG herbicide. The Harmony SG herbicide was dissolved in 2 qts. of warm water before it was added to the 30% UAN. 10 oz/a of 2,4-D(amine formulation) herbicide was used for additional chickweed control. Helena's "Induce" nonionic surfactant at 10 oz per 100 gal of spray mix was added last to the spray tank.
3. ** Feek's growth stage 5 to 6(3/22/12): All treatments received .35 oz/a of Harmony SG herbicide. The Harmony SG herbicide was dissolved in 2 qts. of warm water before it was added to the 30% UAN. Helena's nonionic surfactant, Induce @ 10 oz per 100 gal., was added last to the spray tank.
4. Treatments 2, 3 and 4, which received a fall 2011starter fertilizer yielded on average 8.0 bu/a more than treatments 5, 6 and 7 which did not receive a fall starter fertilizer.
5. The highest yielding treatment was, #3, Monty's Liquid Fall and Spring Fertilizers blended with Fall and Spring 30% UAN.
6. Wheat following corn yielded better than wheat following soybeans. Part of this yield advantage had to do with soil condition. Since the corn was ready to harvest before the soybeans soil conditions following the corn were better than planting after the soybeans. We had better wheat stands after the corn than the soybeans.