

# The Ohio State University

## 14FMC Demo

Trial ID: 14FMC Demo      Location: F7      Trial Year: 2014  
 Protocol ID: 14FMC Demo      Investigator: Dr. Mark M. Loux  
 Project ID:      Study Director: Anthony Dobbels  
 Sponsor Contact: Joe Reed, FMC

### Crop Description

**Crop 1:** RAPSS Raphanus sp.  
**Variety:** Tillage Radish  
**Description:** Cover Crop Solutions, LLC.

**BBCH Scale:** BVRT

**Planting Rate, Unit:** 6      LB/A  
**Depth, Unit:** 0.5      in  
**Row Spacing, Unit:** 7.5      IN  
**Soil Moisture:** GOOD      good  
**Seed Bed:** MEDIUM      medium

**Planting Date:** Aug-4-2014  
**Planting Method:** DRILLE drilled  
**Planting Equipment:** FE      Field Equipment

**Crop 2:** SECCW Secale cereale (winter)  
**Variety:** VNS  
**Description:** Byron Seeds, LLC

**BBCH Scale:** BCER

**Planting Rate, Unit:** 90      LB/A  
**Depth, Unit:** 0.5      IN  
**Row Spacing, Unit:** 7.5      IN  
**Soil Moisture:** GOOD      good  
**Seed Bed:** MEDIUM      medium

**Planting Date:** Aug-4-2014  
**Planting Method:** DRILLE drilled  
**Planting Equipment:** FE      Field Equipment

**Crop 3:** PIBSA Pisum sativum arvense  
**Variety:** Winter Pea  
**Description:** Cover Crop Solutions, LLC.

**BBCH Scale:** BVPU

**Planting Rate, Unit:** 30      LB/A  
**Depth, Unit:** 1      IN  
**Row Spacing, Unit:** 7.5      IN  
**Soil Moisture:** GOOD      good  
**Seed Bed:** MEDIUM      medium

**Planting Date:** Aug-4-2014  
**Planting Method:** DRILLE drilled  
**Planting Equipment:** FE      Field Equipment

**Crop 4:** AVESA Avena sativa  
**Variety:** Arrnor, Ohio Certified  
**Description:** DKG Seed Farms, LLC

**BBCH Scale:** BCER

**Planting Rate, Unit:** 90      LB/A  
**Depth, Unit:** 0.5      IN  
**Row Spacing, Unit:** 7.5      IN  
**Soil Moisture:** GOOD      good  
**Seed Bed:** MEDIUM      medium

**Planting Date:** Aug-4-2014  
**Planting Method:** DRILLE drilled  
**Planting Equipment:** FE      Field Equipment

**Crop 5:** TRZAW Triticum aestivum (winter)  
**Variety:** SC 1342  
**Description:** Seed Consultants

**BBCH Scale:** BCER

**Planting Rate, Unit:** 125      LB/A  
**Depth, Unit:** 0.5      IN  
**Row Spacing, Unit:** 7.5      IN  
**Soil Moisture:** GOOD      good  
**Seed Bed:** MEDIUM      medium

**Planting Method:** DRILLE drilled  
**Planting Equipment:** FE      Field Equipment

### Site and Design

**Treated Plot Width:** 6.67 FT  
**Treated Plot Length:** 30 FT  
**Treated Plot Area:** 200.1 FT<sup>2</sup>      **Treatments:** 30  
**Replications:** 1

**Study Design:** RACOB� Randomized Complete Block (RCB)

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## Application Description

**A**

**Application Date:** May-27-2014  
**Appl. Start Time:** 2:00 PM  
**Appl. Stop Time:** 2:30 PM  
**Application Method:** SPRAY  
**Application Timing:** PRE  
**Application Placement:** BROSOI  
**Applied By:** Dobbels  
**Air Temperature, Unit:** 86 F  
**% Relative Humidity:** 55  
**Wind Velocity, Unit:** 6 MPH  
**Wind Direction:** WSW  
**Dew Presence (Y/N):** N no  
**Soil Temperature, Unit:** 72 F  
**Soil Moisture:** SLIDRY  
**% Cloud Cover:** 50  
**Next Moisture Occurred On:** May-29-2014  
**Time to Next Moisture, Unit:** 2 DAY

## Crop Stage At Each Application

**A**

**Crop 1 Code, BBCH Scale:** RAPSS BVRT  
**Crop 2 Code, BBCH Scale:** SECCW BCER  
**Crop 3 Code, BBCH Scale:** PIBSA BVPU  
**Crop 4 Code, BBCH Scale:** AVESA BCER  
**Crop 5 Code, BBCH Scale:** TRZAW BCER

## Application Equipment

**A**

**Appl. Equipment:** 6 FOOT BOOM  
**Equipment Type:** SPRBAC  
**Operation Pressure, Unit:** 46 PSI  
**Nozzle Type:** AI XR  
**Nozzle Size:** 110015  
**Nozzle Spacing, Unit:** 18 IN  
**Boom Length, Unit:** 6.67 FT  
**Boom Height, Unit:** 20 IN  
**Ground Speed, Unit:** 3 MPH  
**Carrier:** WATER  
**Spray Volume, Unit:** 15 GPA  
**Mix Size, Unit:** 1 L  
**Propellant:** CO2

