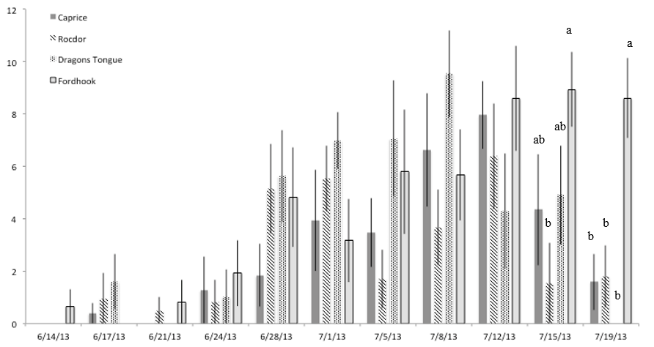
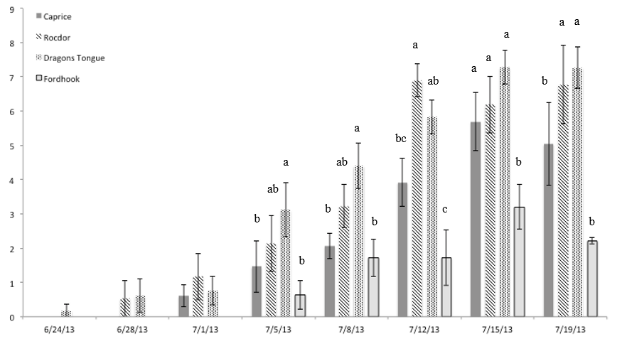
**For all figures, treatments not sharing letters or an \* are different according to Student’s t-test if normal, or Wilcoxon each pair means separation test if not normal.**

|  |
| --- |
| **Figure 1: MBB eggs on various beans** *[Objective 1: 2013]* |



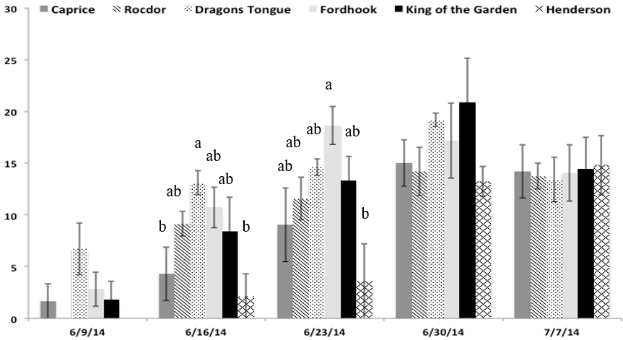
**Average number of MBB eggs per 10 Plants (Square root transformed)**

|  |
| --- |
| **Figure 2: MBB late instars on various beans** *[Objective 1: 2013]* |



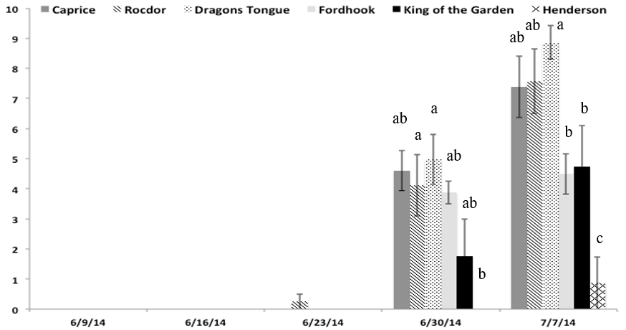
**Average number of MBB late instars per 10 Plants (Square root transformed)**

|  |
| --- |
| **Figure 3: MBB eggs on various beans** *[Objective 1: 2014]* |



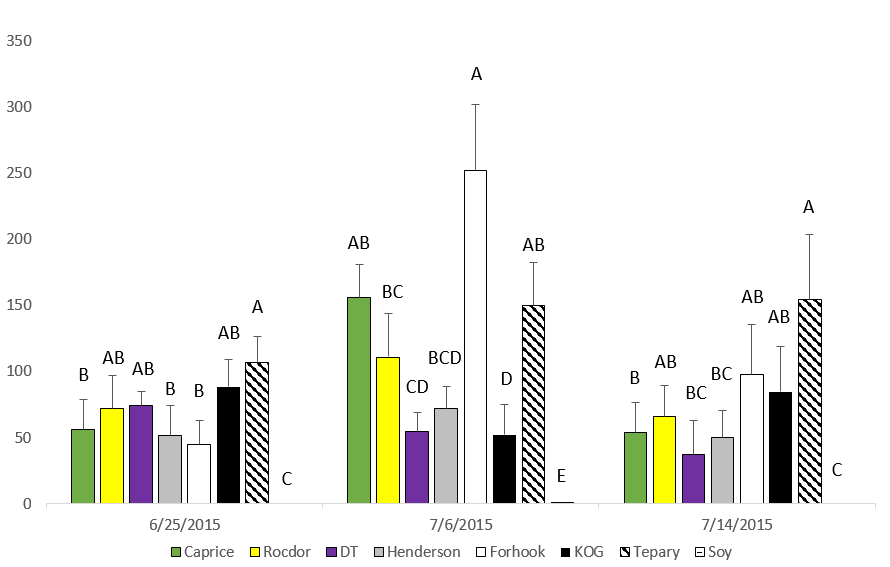
**Average number of MBB eggs per 10 Plants (Square root transformed)**

|  |
| --- |
| **Figure 4: MBB late instars on various beans** *[Objective 1: 2014]* |



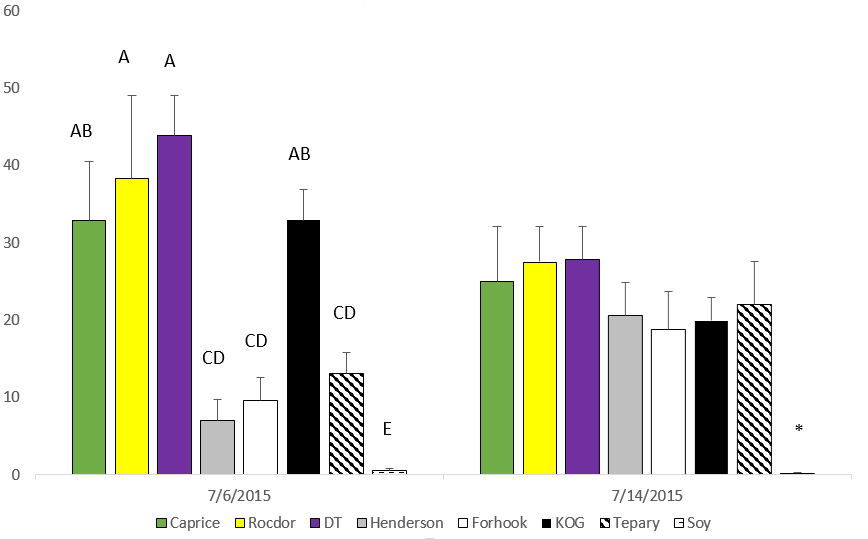
**Average number of MBB late instars per 10 Plants (Square root transformed)**

|  |
| --- |
| **Figure 5: MBB eggs on various beans** *[Objective 1: 2015]* |



**Average number of MBB eggs per 10 Plants**

|  |
| --- |
| **Figure 6: MBB late instars on various beans** *[Objective 1: 2015]* |



**Average number of MBB late instars per 10 Plants**

|  |
| --- |
| **Figure 7: Pod damage from MBB to snap bean varieties** *[Objective 1: 2015]* |

**Percent of pods damaged out of 50**

C

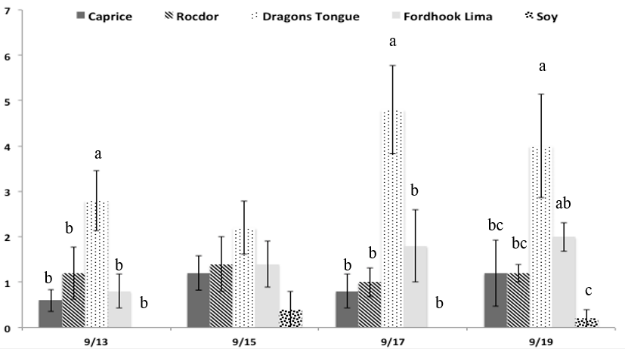
A

B

|  |
| --- |
| **Figure 8: Foliar damage from MBB on various beans** *[Objective 1: 2015]* |

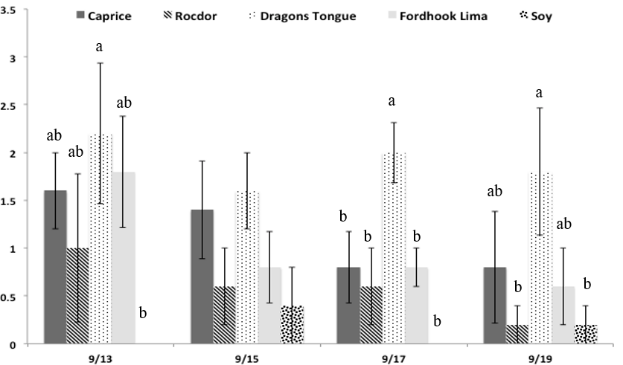
**Average foliar damage rating of 10 plants**

|  |
| --- |
| **Figure 9: Immigrated to a new variety** *[Objective 2: 2013 cage plot]* |



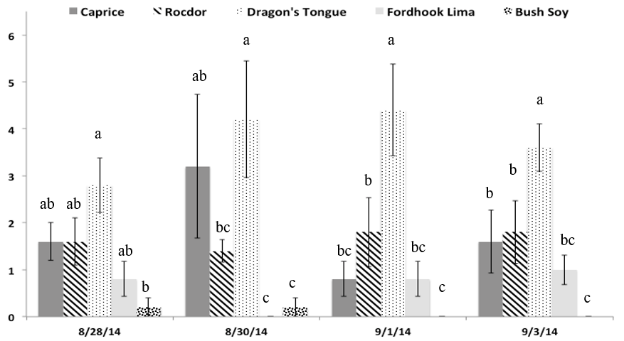
**Average number of MBB found within a plot that came from a different variety**

|  |
| --- |
| **Figure 10: Remained in original variety** *[Objective 2: 2013 cage plot]* |



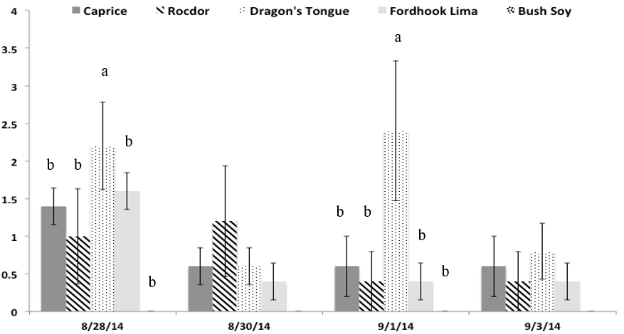
**Average number of MBB found within a plot that came from the same variety**

|  |
| --- |
| **Figure 11: Immigrated to a new variety** *[Objective 2: 2014 cage plot]* |



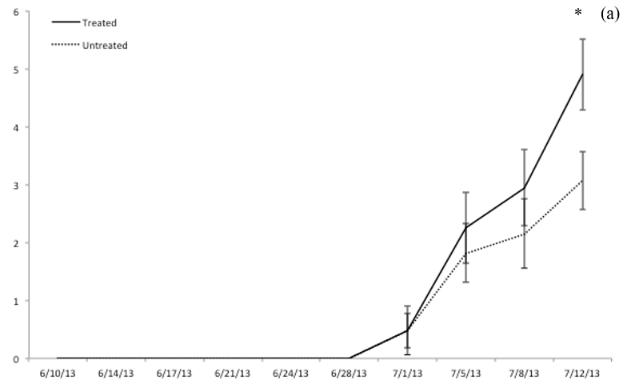
**Average number of MBB found within a plot that came from a different variety**

|  |
| --- |
| **Figure 12: Remained in original variety** *[Objective 2: 2014 cage plot]* |

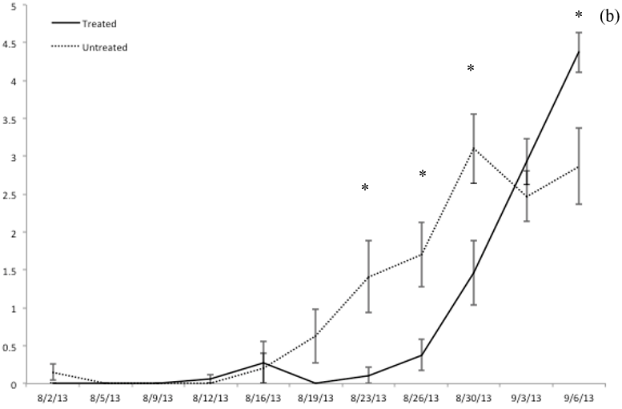


**Average number of MBB found within a plot that came from the same variety**

|  |
| --- |
| **Figure 13 a & b: MBB late instars** *[Objective 3: 2013]* |



**Average number of MBB late instars in 10 plants (square root transformed)**

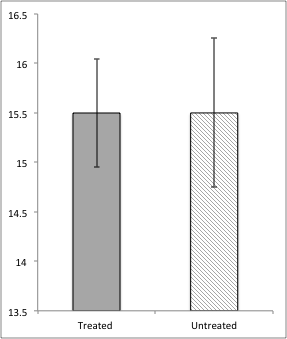
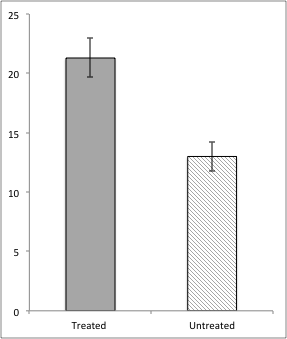


**Average number of MBB late instars in 10 plants (square root transformed)**

**a. PD: 5/3/13. Average number of MBB late instars per replicate (10 plants). Square root transformation.**

**b. PD: 7/16/13. Average number of MBB late instars per replicate (10 plants). Square root transformation.**

|  |
| --- |
| **Figure 14 a & b: Harvest stand count** *[Objective 3: 2013]* |



(a)

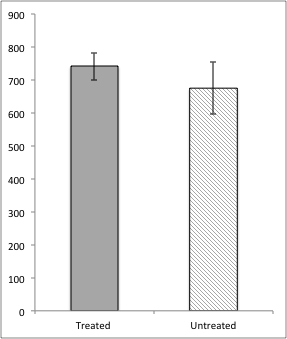
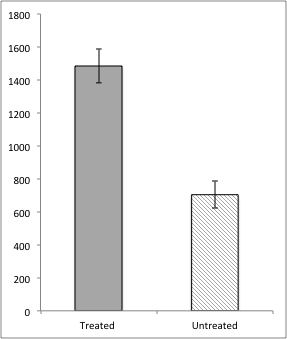
(b)

**Average number of plants per replicate (two, 1m samples) at maturity**

\*

**(a) Planting date: 5/3/13. (b). Planting date: 7/16/13.**

|  |
| --- |
| **Figure 15 a & b: Pod yield (g) by plot** *[Objective 3: 2013]* |



**Average weight (g) of pods per plot (two, 1m samples) at maturity**

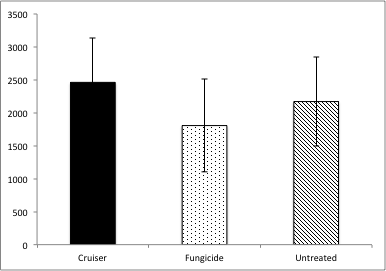
(b)

(a)

\*

**(a) Planting date: 5/3/13. (b). Planting date: 7/16/13.**

|  |
| --- |
| **Figure 16: Total pod yield (g)** *[Objective 3: 2014]* |



**Average weight (g) of pods per plot (two, 3m samples) at maturity**

a

b

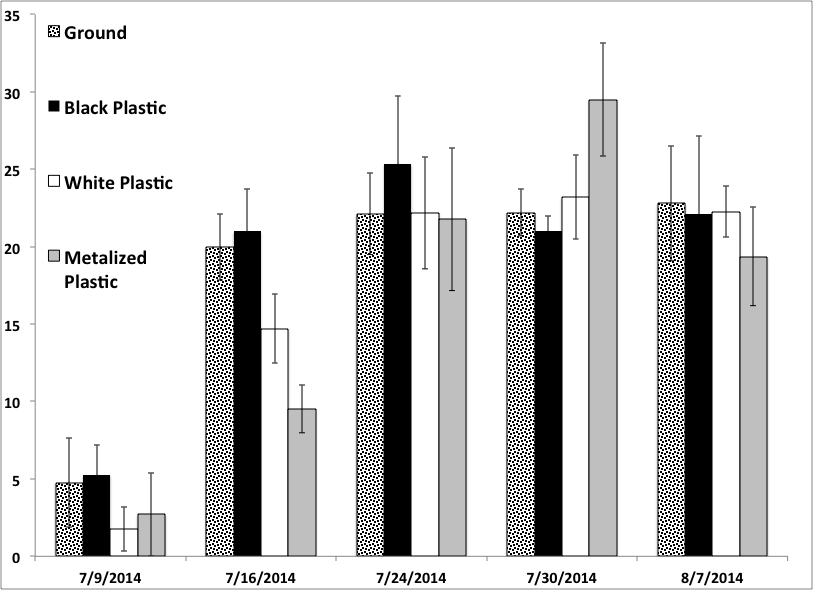
ab

**Average weight (g) of pods per replicate (two, 3m sections of row) at plant maturity, 7/14/2014. Treatments not sharing letters are different according to Tukey’s HSC means separation. \*p= .0396**

|  |
| --- |
| **Figure 16: Thrips** *[Objective 3: 2015]* |

**Average number of Thrips on 10 plants (square root transformed)**

|  |
| --- |
| **Figure 17: MBB Eggs on plastic mulches** *[Objective 5: 2014]* |



b

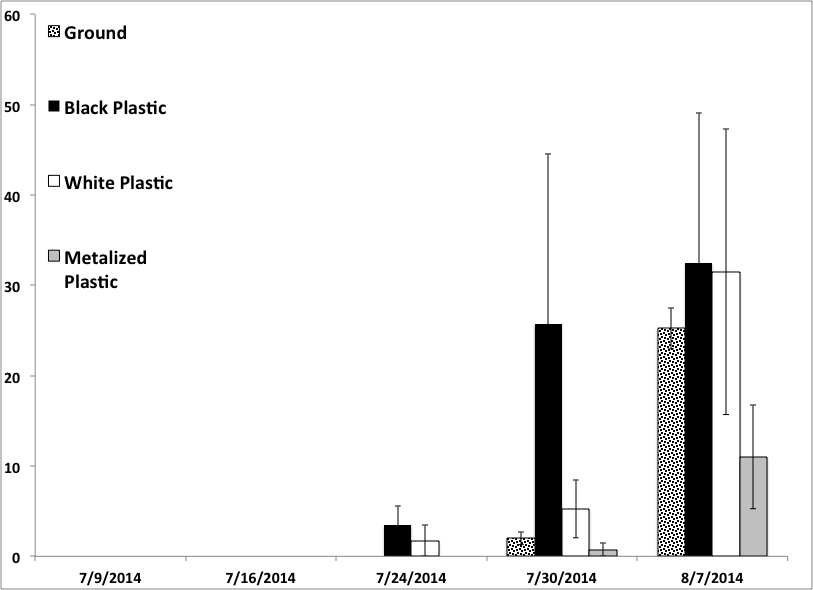
c

a

a

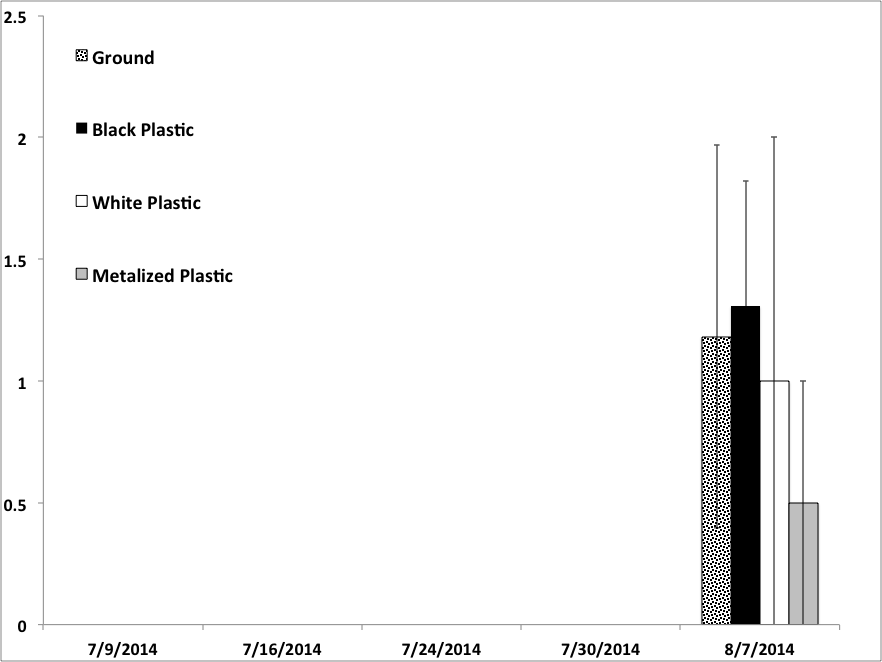
**Average number of MBB eggs on 10 plant clusters (Square root transformed)**

|  |
| --- |
| **Figure 18: MBB Late instars on plastic mulches** *[Objective 5: 2014]* |



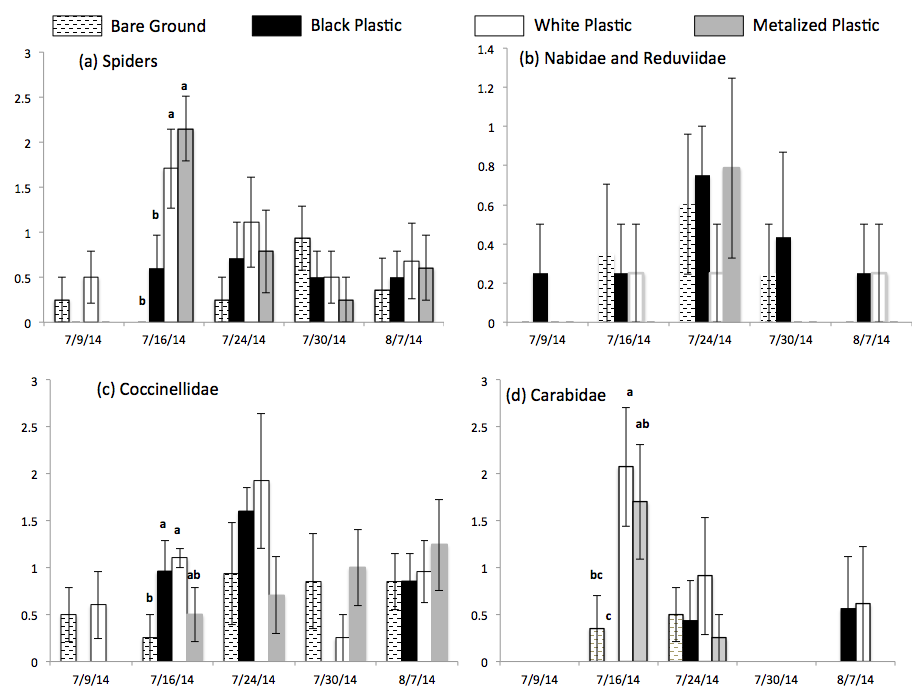
**Average number of MBB late instars on 10 plant clusters (Square root transformed)**

|  |
| --- |
| **Figure 19: MBB Pupae on plastic mulches** *[Objective 5: 2014]* |



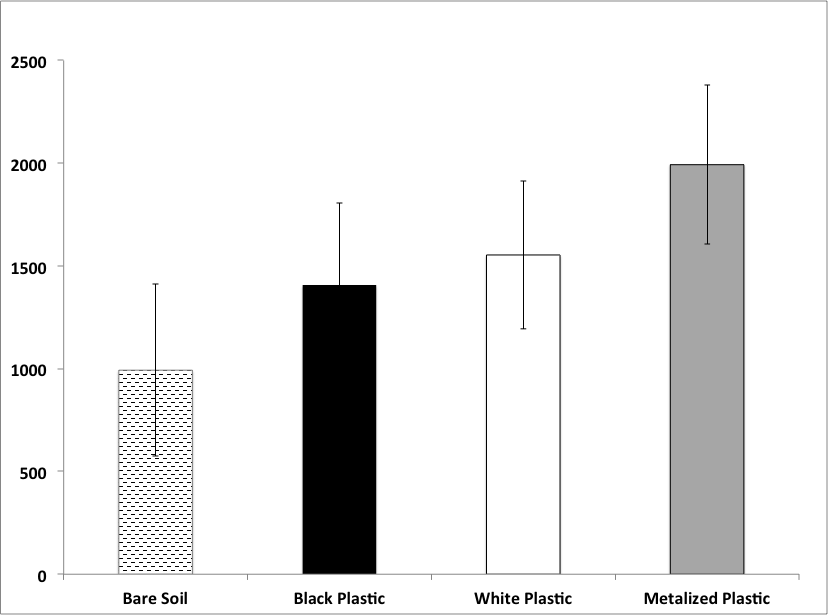
**Average number of MBB pupae on 10 plant clusters (Square root transformed)**

|  |
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| **Figure 20: Predators on plastic mulches** *[Objective 5: 2014]* |



**Average number of individuals on 10 plant clusters (Square root transformed)**

|  |
| --- |
| **Figure 21: Pod Yield from plastic mulches** *[Objective 5: 2014]* |



**Total weight (g) of bean pods from 20 plant clusters**

a

b

b

c

|  |
| --- |
| **Figure 22: Light sensor readings** *[Objective 5: 2015]* |

**Average PAR µmol/m²s per day from sunrise to sunset (readings taken ever 10 minutes)**

|  |
| --- |
| **Figure 23: MBB eggs on plastic mulches** *[Objective 5: 2015]* |

**Average number of MBB eggs on 10 plant clusters (Square root transformed)**

ab

b

ab

a

a

a

b

b

b

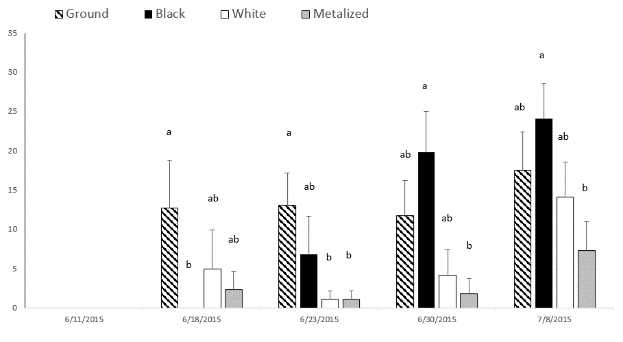
b

ab

a

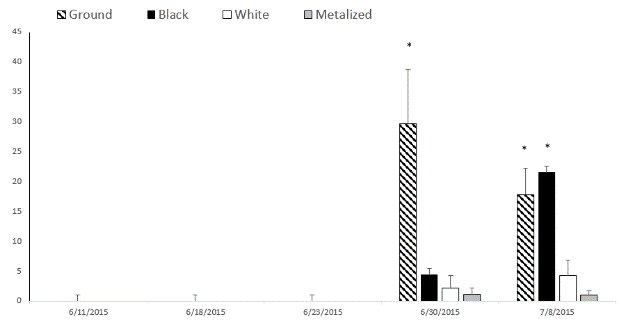
\*

|  |
| --- |
| **Figure 24: MBB early instars on plastic mulches** *[Objective 5: 2015]* |



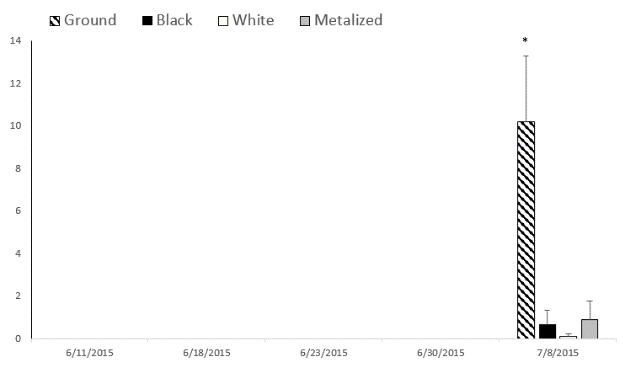
**Average number of MBB early instars on 10 plant clusters (Square root transformed)**

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| --- |
| **Figure 25: MBB late instars on plastic mulches** *[Objective 5: 2015]* |



**Average number of MBB late instars on 10 plant clusters (Square root transformed)**

|  |
| --- |
| **Figure 26: MBB pupae on plastic mulches** *[Objective 5: 2015]* |



**Average number of MBB pupae on 10 plant clusters (Square root transformed)**

|  |
| --- |
| **Figure 27: Foliar Injury to bean plants on plastic mulches** *[Objective 5: 2015]* |

**Average foliar injury rating from 10 plant clusters (Square root transformed)**

|  |
| --- |
| **Figure 28: Bean pod damage on plastic mulches** *[Objective 5: 2015]* |

**Average proportion of damaged bean pods of 50 pods (arcsine square root transformed)**

|  |
| --- |
| **Figure 29: Bean pod yield on plastic mulches** *[Objective 5: 2015]* |

**Total weight (g) of bean pods from 10 plant clusters**

b

b

b

c

|  |
| --- |
| **Figure 30: Double cropped lettuce yield on plastic mulches** *[Objective 5: 2015]* |

b

a

a

**Total weight (g) of 20 lettuce heads**

c