

Figure 1. Peppers: Ground Cover and Weed Weight Panels

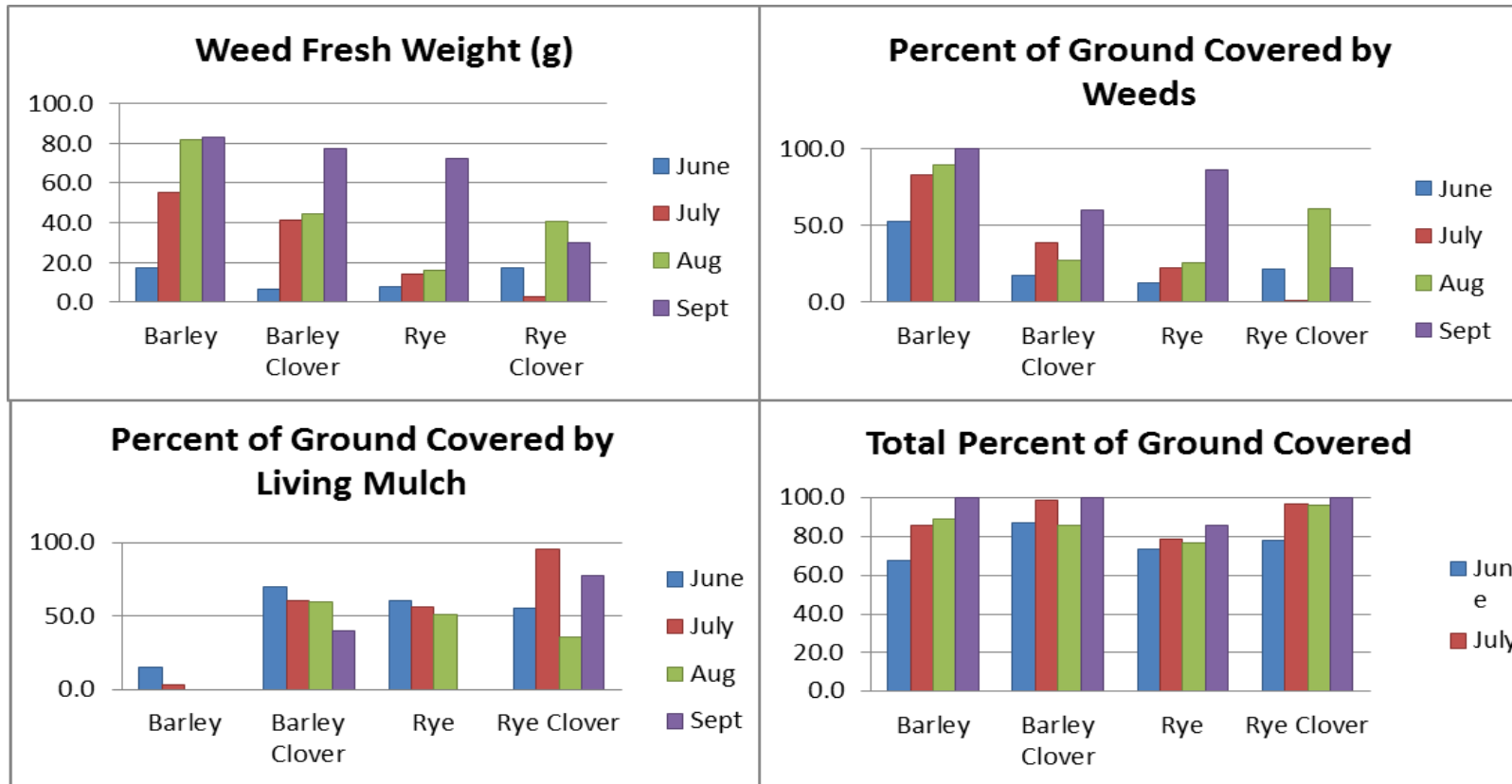


Table 1. Peppers: Yield by Treatment

	Yield per Plant	
	Number	Weight (lbs)
Barley	5.9	3.0
Barley Clover	6.1	3.1
Rye	6.1	3.2
Rye Clover	6.3	3.4
p value *	NS (.8418)	NS (.6508)

* Model term Treatment-Rep. Fisher's LSD at .05 significance level.

Figure 2. Pepper Economics

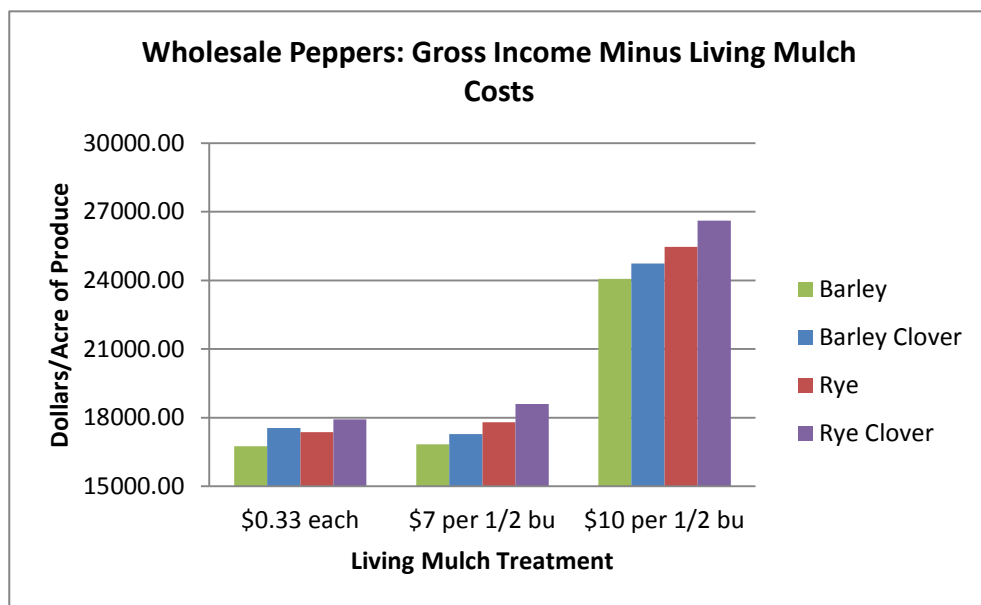


Table 2. Onions: Above ground fresh weight of weeds

Treatment	Weed Fresh Wt (g)			
	June	July	August	Sept
Barley	14.1 A	39.5	93.8	145.2
Barley Clover	5.6 A	37.2	38.5	15.7
Rye	2.0 A	0.8	40.7	8.3
<i>Rye Clover</i> **	1.30	27.4	23.7	9.1
Cultivated	57.9 B	0.1	47.3	52.4
p-level	0.0002	NS (0.0805)	NS (0.3274)	NS (0.1456)
Comparison Value	16.4	39.5	73.5	133.0

*Fisher's LSD at .05 significance level. **Average of two plots only. Not included in statistical analysis or significant difference groupings.

Table 3. Onions: Ground cover

Treatment	% Ground Cover: Weeds				% Ground Cover: Cover Crop				% Ground Cover: Total			
	June	July	Aug	Sept	June	July	Aug	Sept	June	July	Aug	Sept
Barley	9.0 A	40.3	87.3 B	58.3 B	60	34.7	7.0 B	6.7 B	75.7	75.0 A	94.3 AB	65.0 AB
Barley/Clover	3.3 A	5.3	22.7 A	3.3 A	89.7	74.3	74.0 A	78.3 A	93.0	79.7 A	96.7 A	81.7 A
Rye	6.3 A	1.0	33.0 A	7.7 A	85.3	50.7	40.7 AB	22.3 B	91.7	51.7 A	73.7 B	30.0 BC
<i>Rye Clover</i> **	0.5	22.5	17.0	1.5	98.5	45.5	77.5	94.0	99.0	68.0	94.5	95.5
Cultivated	75.0 B	0.7	25.7 A	22.3 AB	N/A	N/A	N/A	N/A	75.0	0.7 B	25.7 C	22.3 C
p-level	0.0003	NS (0.0807)	0.0271	0.0427	NS (0.0929)	NS (0.2304)	NS (0.0500)	0.0009	0.4485	0.0013	0.0003	0.0225
Comparison Value	23.5	34.7	43.3	39.0	29.1	50.2	51.123	24.412	32.4	31.1	22.9	38.8

*Fisher's LSD at .05 significance level. **Average of two plots only. Not included in statistical analysis or significant difference groupings.

Table 4. Onions: Stand and Healthy Yield

	Plot Totals		Big Onions				Tiny Onions				
	Stand	Weight/ Bulb	No. of Bulbs	Weight (lbs)	\$ Value	% of Plot Stand	% of Plot Weight	No. of Bulbs	Weight (lbs)	% of Plot Stand	% of Plot Weight
Barley	49.0	.54 B	31.3	20.33	15.67	67.0	78.1	11.0	0.72	19.5	3.1
Barley Clover	53.0	.60 B	39.3	26.58	19.67	73.6	81.5	6.3	1.07	11.5	3.4
Rye	48.3	.58 B	33.0	21.52	16.50	70.1	78.9	5.7	0.95	11.9	3.4
<i>Rye Clover**</i>	59.0	0.64	46.0	29.60	23.00	78.0	79.6	2.0	0.35	3.4	0.9
Cultivated	60.0	.76 A	42.7	33.98	21.33	71.5	74.7	2.0	0.20	3.4	0.5
p-value*	NS (0.5900)	0.0416	NS (0.3092)	NS (0.1070)	NS (0.3092)	NS (0.9601)	NS (0.9376)	NS (0.4107)	NS (0.114)	NS (0.1895)	NS (0.0845)
Comparison Value	21.2	0.15	14.6	12.06	7.31	29.2	25.1	11.6	0.76	15.1	2.6

*Fisher's LSD at .05 significance level. **Average of two plots only. Not included in statistical analysis or significant difference groupings.

Table 5. Onions: Stand and Unhealthy Yield

	Plot Totals		Bad Onions (Rot + General Cull)			
	Stand	Weight/ Bulb	No. of Bulbs	Weight (lbs)	% of Plot Stand	% of Plot Weight
Barley	49.0	.54 B	6.7	4.70	13.5	18.9
Barley Clover	53.0	.60 B	7.3	4.65	14.9	15.1
Rye	48.3	.58 B	9.7	5.43	18.1	17.8
<i>Rye Clover**</i>	59.0	0.64	11.0	7.53	18.6	19.5
Cultivated	60.0	.76 A	15.3	11.50	25.2	24.8
p-value*	NS (0.5900)	0.0416	NS (0.4758)	NS (0.2823)	NS (0.7113)	NS (0.8317)
Comparison Value	21.2	0.15	13.4	8.75	24.7	25.0

*Fisher's LSD at .05 significance level. **Average of two plots only. Not included in statistical analysis or significant difference groupings.

Table 6. Onions: Plant vigor, foliar disease, and insect pressure

	Plant Height (cm)			Leaf Number			Maturity, 4-Sept %		Thrips/leaf	
	June	July	August	June	July	August	% Lodged	Dieback	July	August
Barley	25.1	57.0	66.5 B	4.2	8.7	8.2	58.3 B	25.0	4.2 A	6.3
Barley Clover	25.3	60.3	66.7 B	4.2	9.1	8.1	86.3 A	38.3	4.2 A	4.0
Rye	26.6	57.5	64.3 B	4.2	8.8	7.6	45.0 B	33.3	7.6 B	7.0
<i>Rye Clover**</i>	25.7	52.2	66.8	4.2	8.4	8.0	61.0	47.5	5.8	3.8
Cultivated	26.2	63.7	72.9 A	4.2	9.3	8.5	75.0 A	41.7	5.8 AB	5.3
p-value*	NS (0.5860)	NS (0.0506)	0.0001	NS (0.9944)	NS (0.4896)	NS (0.1442)	0.0018	NS (0.696)	0.0287	NS (0.8492)
Comparison Value	2.4	5.3	3.7	0.4	0.9	0.8	16.3	33.6	2.6	4.5

*Fisher's LSD at .05 significance level. **Average of two plots only. Not included in statistical analysis or significant difference groupings.

Table 7. Onion foliar macronutrients

	%											
	N		P		K		Mg		Ca		S	
	15-Jul	13-Aug	15-Jul	13-Aug	15-Jul	13-Aug	15-Jul	13-Aug	15-Jul	13-Aug	15-Jul	13-Aug
Rye	2.50	2.98 AB	0.39	0.52 B	3.13	2.76 AB	0.18	0.20	1.31	2.69	0.43	0.49
<i>Rye Clover**</i>	2.24	2.92	0.42	0.56	2.77	2.60	0.15	0.20	0.97	2.56	0.44	0.45
Barley	3.18	2.73 C	0.41	0.61 A	3.15	2.82 A	0.18	0.23	1.19	2.49	0.49	0.47
Barley Clover	2.61	2.83 BC	0.35	0.37 C	2.85	2.40 C	0.16	0.22	1.19	2.76	0.42	0.43
Cultivation	3.01	3.08 A	0.39	0.37 C	2.91	2.45 BC	0.15	0.22	1.07	2.84	0.59	0.46
p-value*	0.6214	0.0172	0.5646	0.0003	0.6633	0.0373	0.5630	0.4922	0.6904	0.3877	0.0971	0.7707
Comparison Values	1.33	0.20	0.09	0.08	0.67	0.32	0.05	0.04	0.44	0.45	0.15	0.12

Table 8. Onion foliar micronutrients

	ppm									
	B		Zn		Mn		Fe		Cu	
	15-Jul	13-Aug	15-Jul	13-Aug	15-Jul	13-Aug	15-Jul	13-Aug	15-Jul	13-Aug
Rye	26.3	29.7	14.3	15.3	24.7	21.3 B	49.7	56.7 BC	4.6667 B	4.7
<i>Rye Clover**</i>	<i>24.0</i>	<i>32.5</i>	<i>15.5</i>	<i>17.0</i>	<i>19.5</i>	21.5	39.5	60.0	4.5	4.0
Barley	27.0	27.3	16.3	18.0	22.0	21.0 B	56.0	47.7 C	4.6667 B	5.0
Barley Clover	24.7	30.0	15.7	15.7	35.0	35.7 A	58.0	63.3 AB	4.0000 B	4.3
Cultivation	27.7	34.3	17.7	15.3	25.7	30.0 AB	55.7	74.7 A	5.6667 A	4.7
p-value*	0.7912	0.5949	0.0863	0.1348	0.2317	0.0350	0.8733	0.0175	0.0222	0.4872
Comparison Values	7.1	11.6	2.5	2.7	14.1	10.7	24.5	14.9	0.9	0.9

Figure 3. Onions: Economics

Figure 4. Adoption associated input costs.

