



UNIVERSITY OF GEORGIA  
EXTENSION

# Biochar and Poultry Litter Soil Amendments in Tomato Crop

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# Soil Amendments



# Biochar Rate and Fertilizer Source

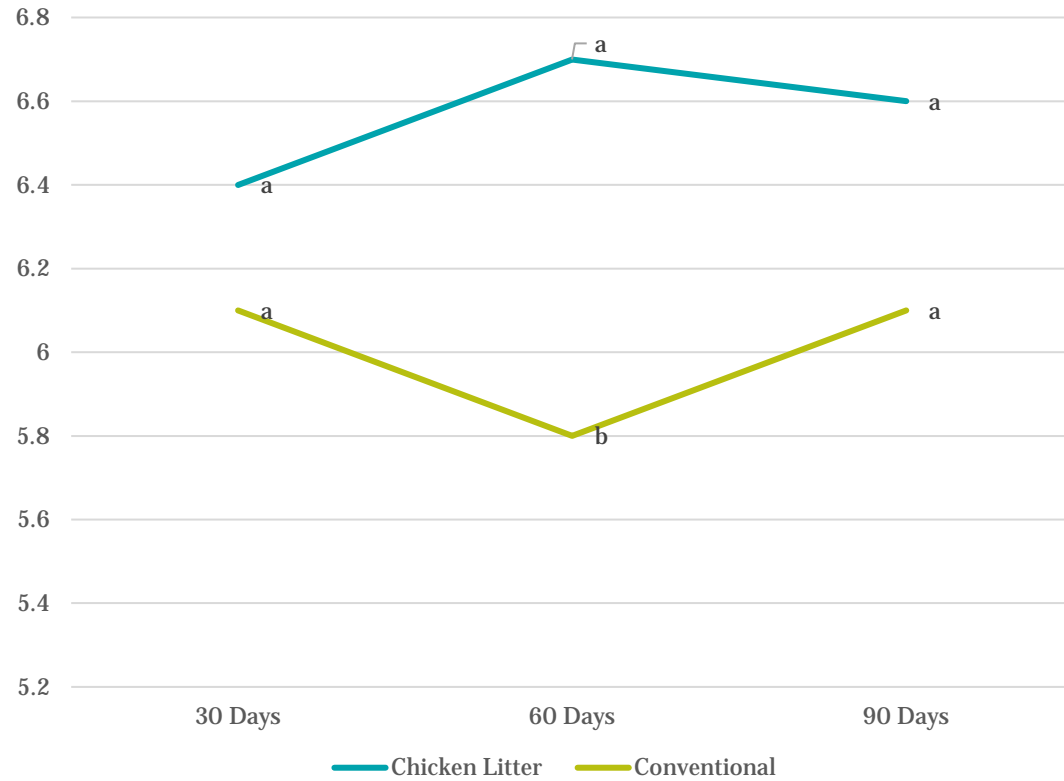
Treatment	Biochar rate ton/ acre	Fertilizer Source
1	0	Inorganic
2	5	Inorganic
3	10	Inorganic
4	15	Inorganic
5	20	Inorganic
6	0	Organic
7	5	Organic
8	10	Organic
9	15	Organic
10	20	Organic

# Biochar and Fertilizer Application

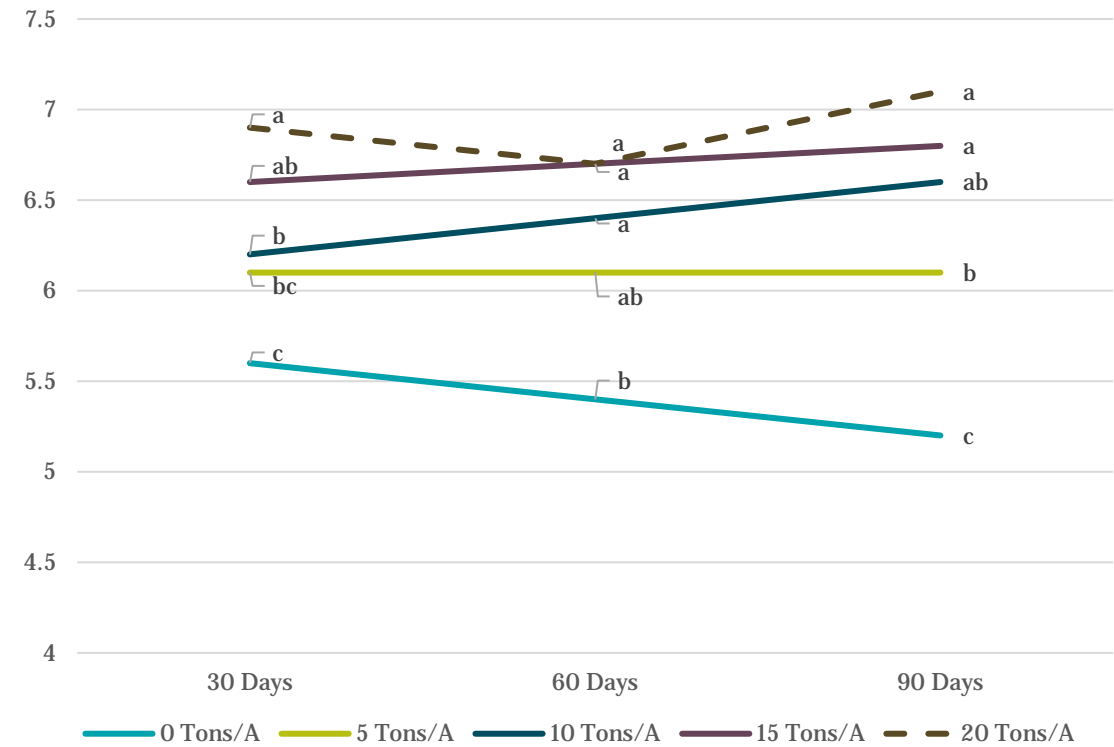


# Biochar Rate and Fertilizer Source

pH - Fertilizer Source

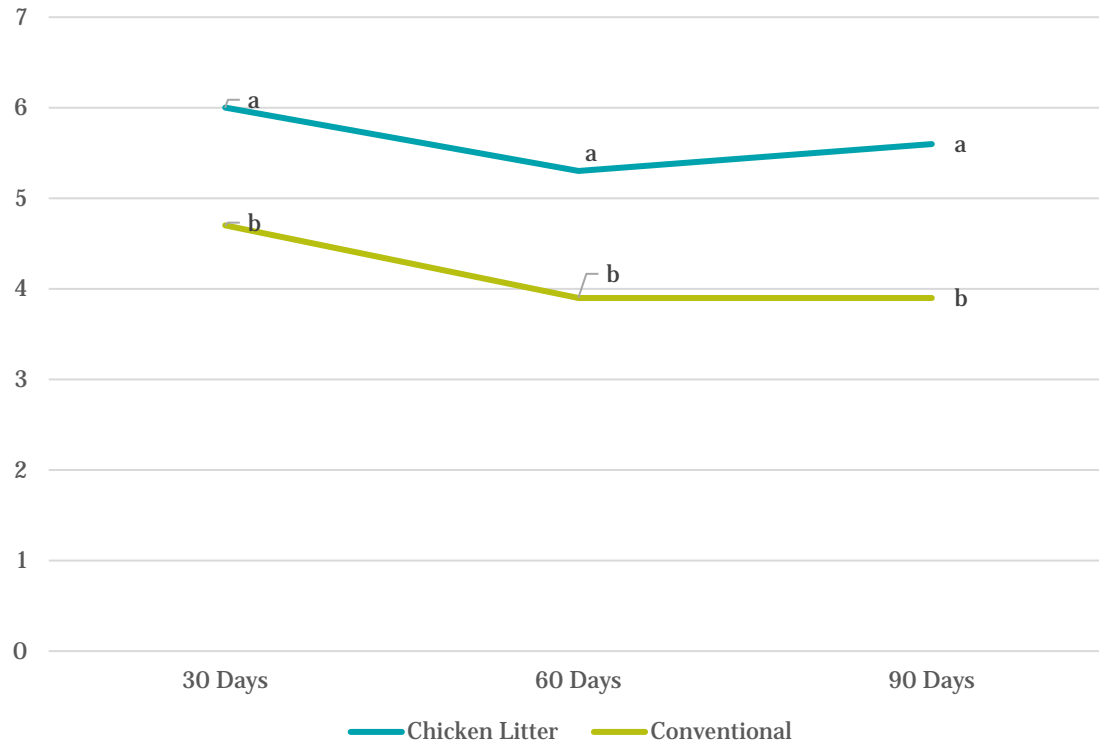


pH - Biochar Rate

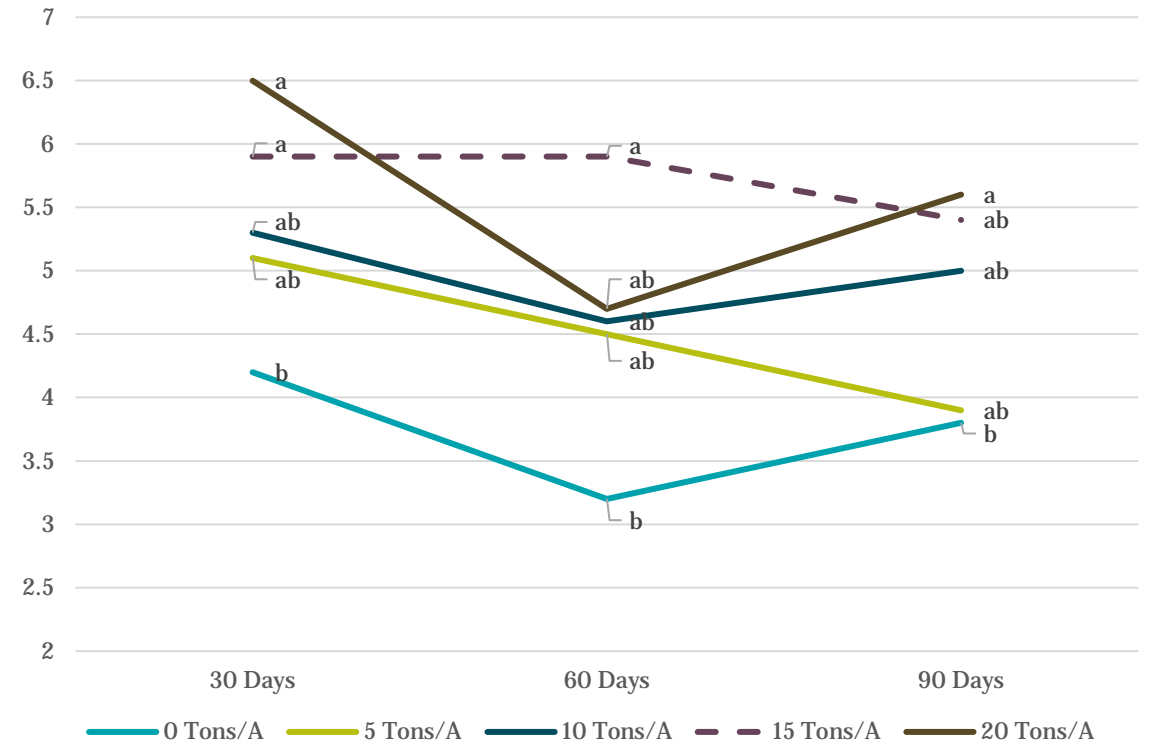


# Biochar Rate and Fertilizer Source

CEC - Fertilizer Source

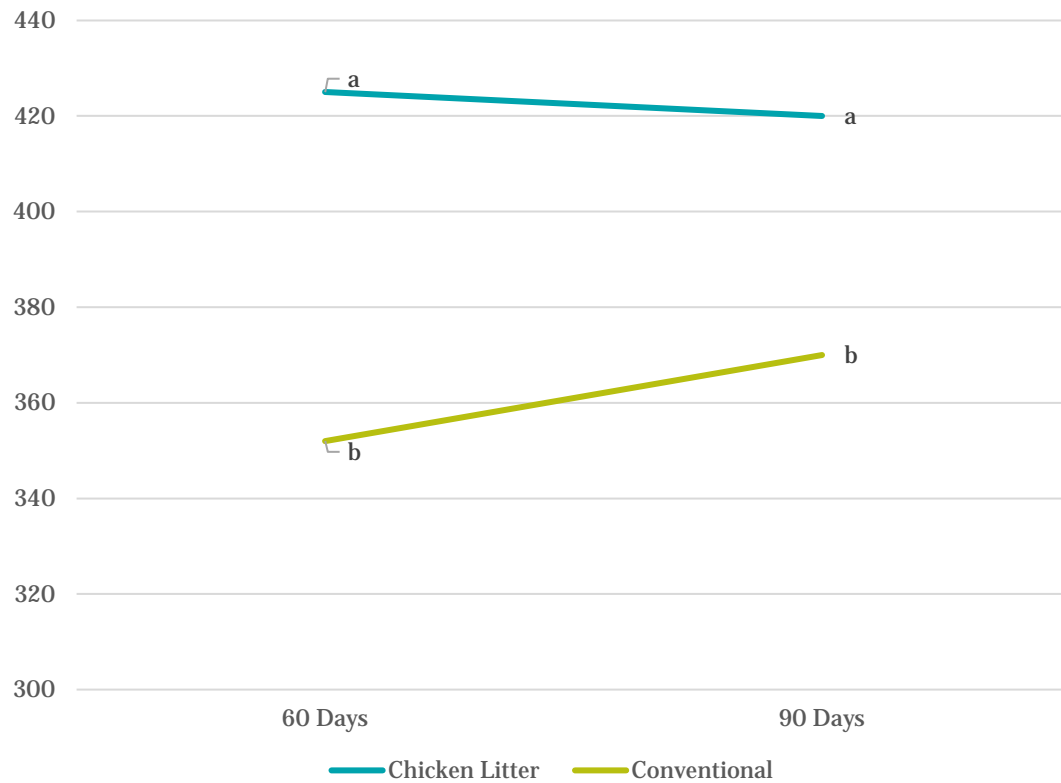


CEC - Biochar Rate

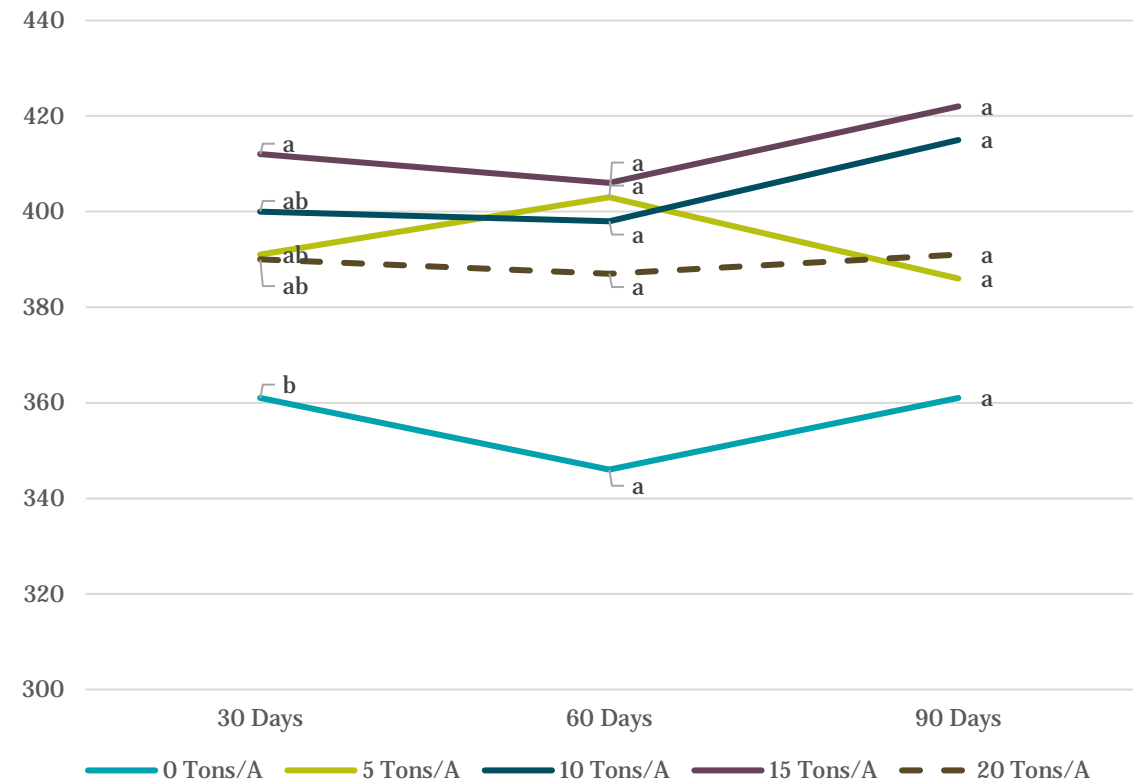


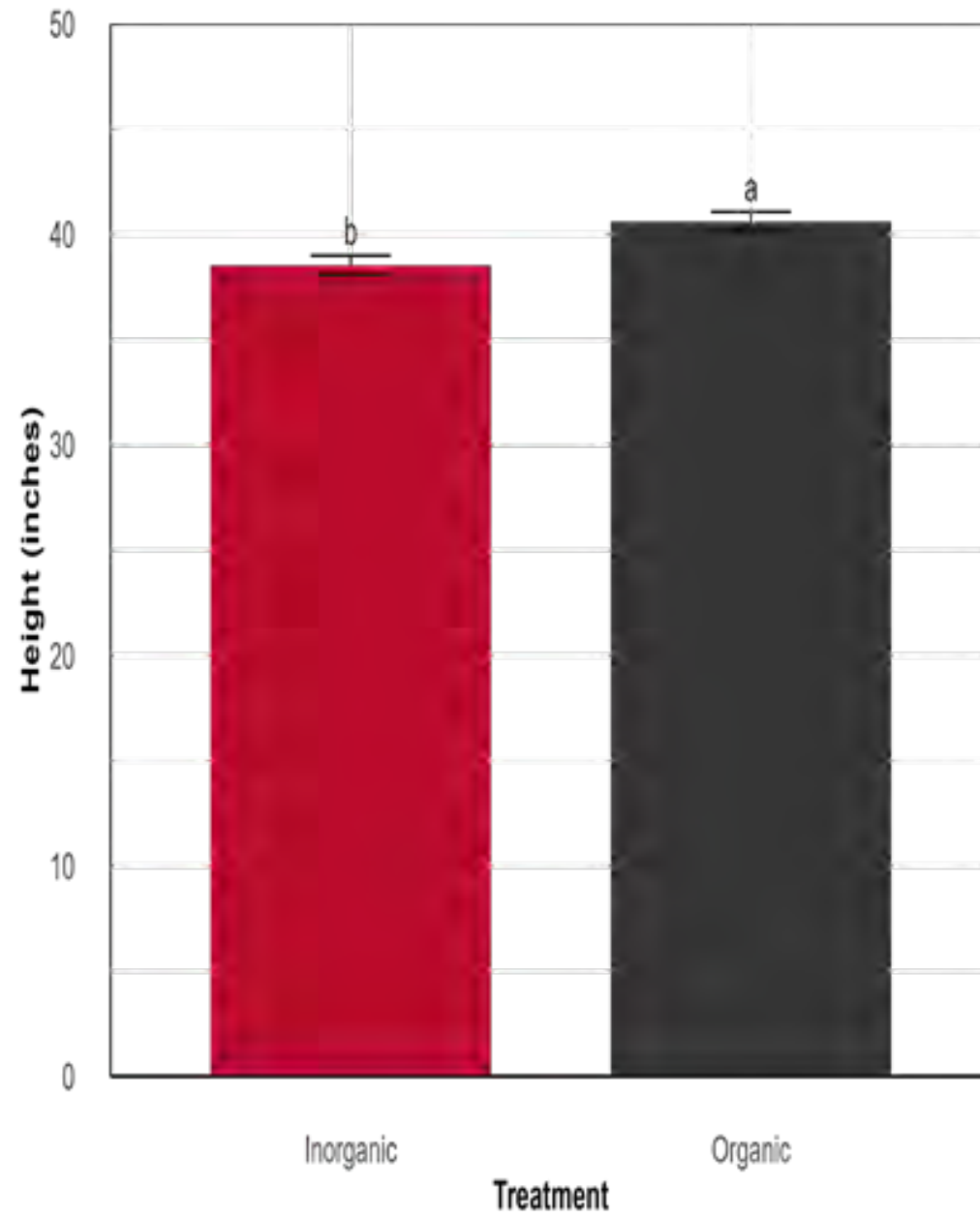
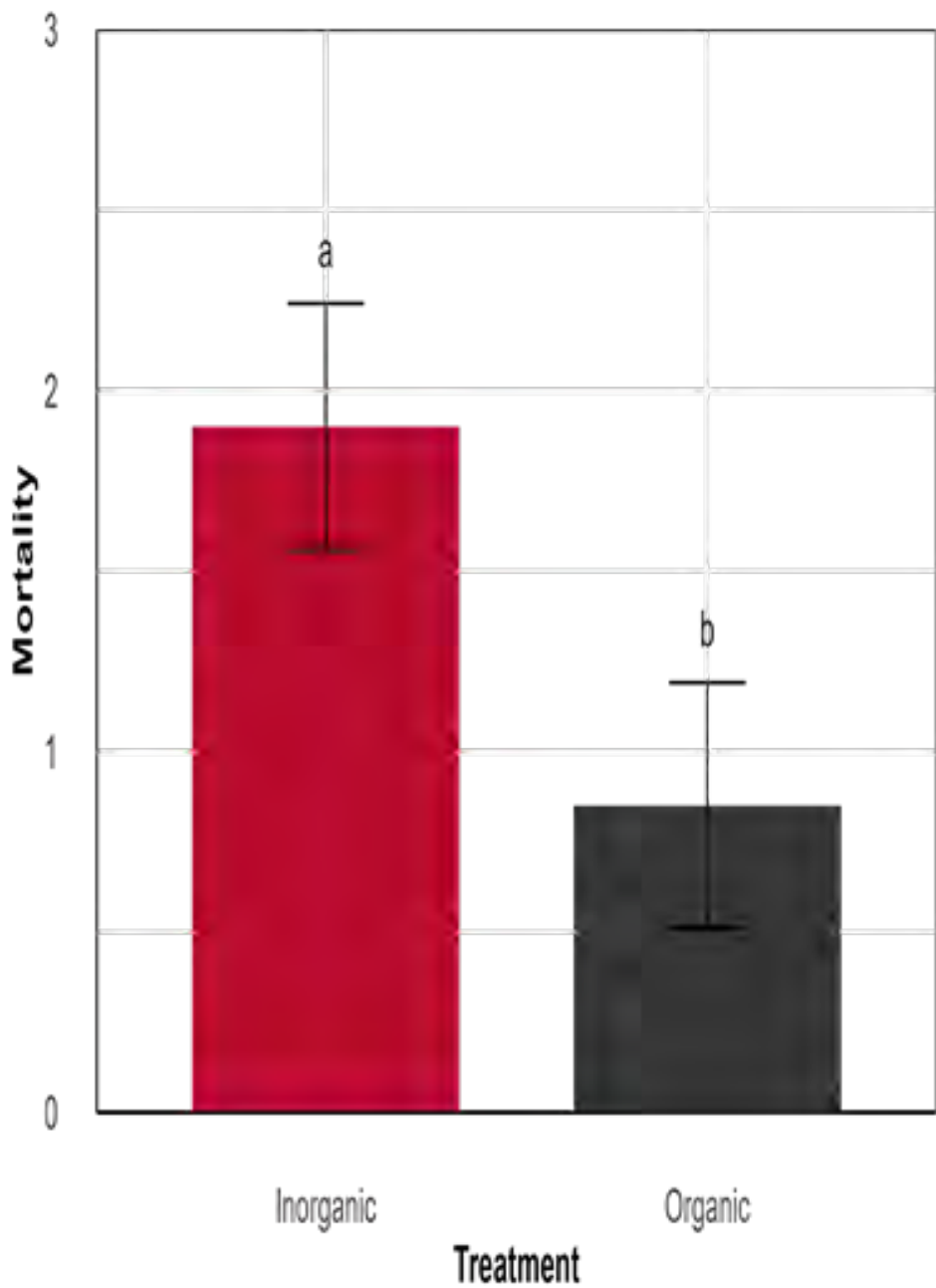
# Biochar Rate and Fertilizer Source

Active Carbon - Fertilizer Source



Active Carbon - Biochar Rate







Treatment	Biochar ton/acre	Medium (No.)	Medium Weight (lbs)	Large (No.)	Large Weight (lbs)	XL (No.)	XL Weight (lbs)	Jumbo (No.)	Jumbo Weight (lbs)	Marketable (No.)	Marketable Weight (lbs)	Total Culls
Inorganic	-	2.3	0.404	5.3	1.2340	27.0 b	9.445 b	61.0	30.4875	95.6 b	41.5705 b	16.80 b
1	0	1.25	0.205	6.50	1.5300	28	9.860	60.50	29.5675	96.25	41.1625	17.50
2	5	2.75	0.475	5.00	1.1700	33.25	11.455	64.50	32.6100	105.50	45.7100	19.25
3	10	1.75	0.160	4.50	1.0400	26.25	9.205	51.50	25.6700	84.00	36.2900	17.75
4	15	2.50	0.415	5.25	1.1750	17	5.705	52.00	27.0250	76.75	34.3200	14.75
5	20	3.25	0.550	5.25	1.2550	30.50	11.000	76.50	37.5650	115.50	50.3700	14.75
Organic	-	1.2	0.205	5.9	1.4375	36.8 a	13.119 a	70.5	34.8925	114.4 a	49.6540 a	28.05 a
6	0	1.25	0.210	6.00	1.4650	35	12.055	59.75	29.0000	102.00	42.7300	27.75
7	5	1.25	0.210	5.00	1.2200	39	13.565	73.00	35.9250	118.25	50.9200	37.00
8	10	1	0.160	5.50	1.3400	41	14.345	66.00	33.5650	113.50	49.4100	29.50
9	15	1.50	0.270	6.75	1.6350	34.75	12.125	74.50	37.4950	117.50	51.5250	22.75
10	20	1	0.175	6.25	1.5275	34.25	13.505	79.25	38.4775	120.75	53.6850	23.25
Significance												
Fert * Biochar	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fert	-	NS	NS	NS	NS	**	**	NS	NS	*	*	**
Biochar	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS



# Acknowledgements

- SARE
- Graduate Students
  - Emilio Suarez