

Influence of plastic mulch different planting dates and varieties on Yield of Tomatoes

Juan Anciso, Ph.D.
Professor and Extension Vegetable Specialist

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List of varieties and type

1. Torero (round/globe)
2. Mykonos (round/globe)
3. Shourouq (round/globe)
4. TAM Hot-Ty (round/globe)
5. Prunus (roma)
6. Rio Grande (roma) (OP)
7. Seri (roma)
8. DRP-8551 (roma)
9. SV8579TE (roma)



[illegible]





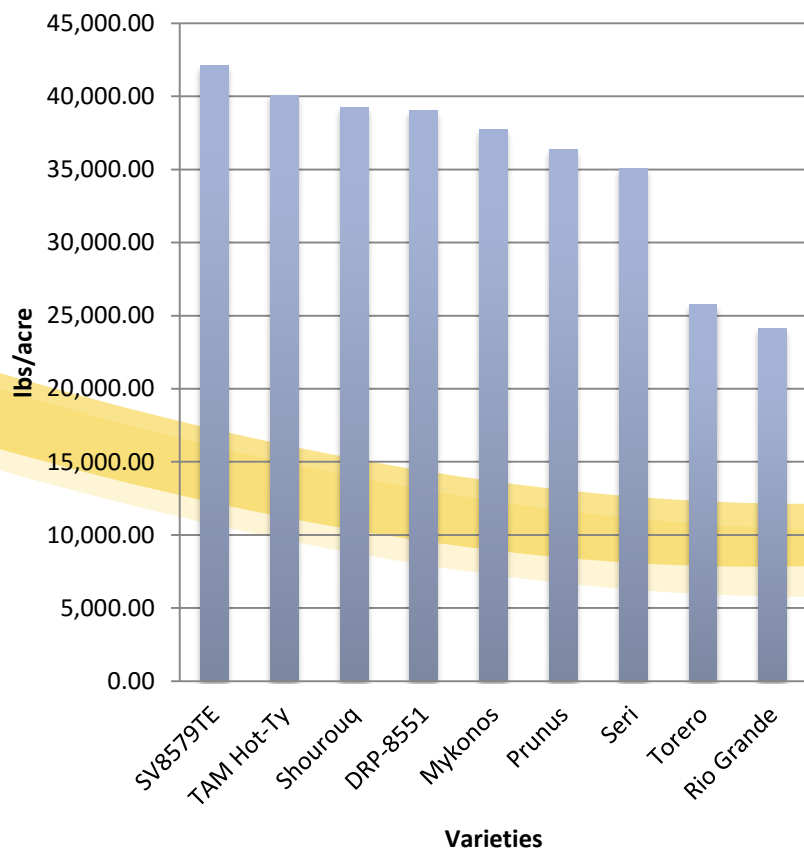


Overall yield

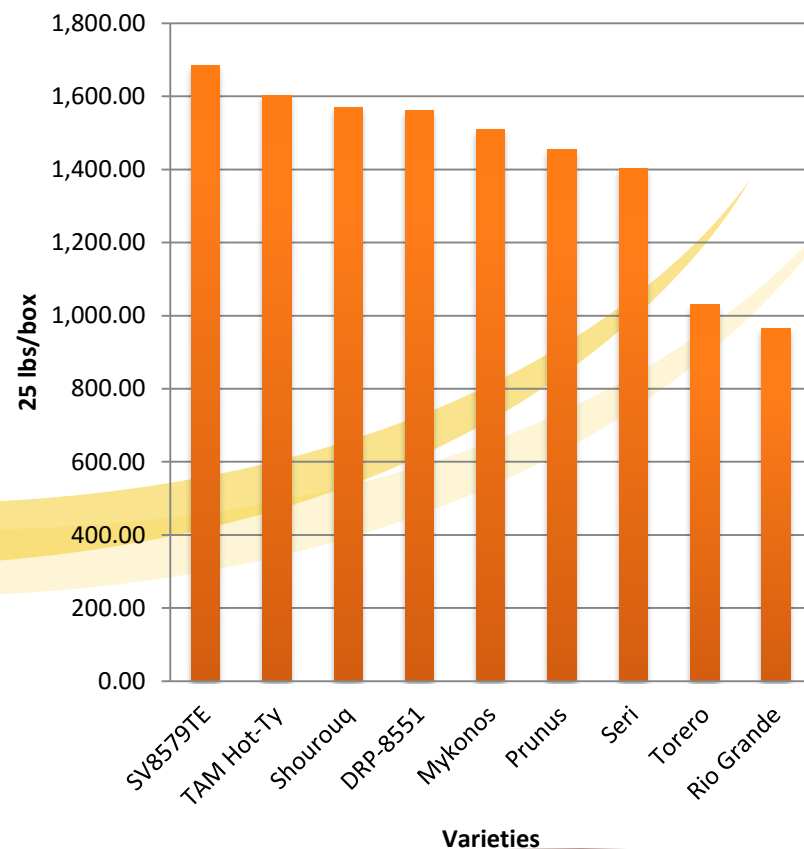
Varieties	Avg # Fruit/plant	Avg weight/fruit (lbs/fruit)	Yield per plant (lbs/plant)	Total Yield (lbs/A)	Packing Boxes (25 lbs/box)
SV8579TE	38.36	0.24	9.47	42,092.92	1,683.72
TAM Hot-Ty	25.42	0.32	9.41	40,088.30	1,603.53
Shourouq	24.72	0.38	9.09	39,225.15	1,569.01
DRP-8551	36.14	0.25	9.0	39,039.61	1,561.58
Mykonos	23.15	0.39	8.66	37,744.88	1,509.80
Prunus	41.67	0.16	8.34	36,343.26	1,453.73
Seri	32.44	0.21	8.04	35,050.54	1,402.02
Torero	15.31	0.36	5.90	25,725.24	1,029.01
Rio Grande	30.47	0.16	5.52	24,083.64	963.35

Best performance variety

Total Yield



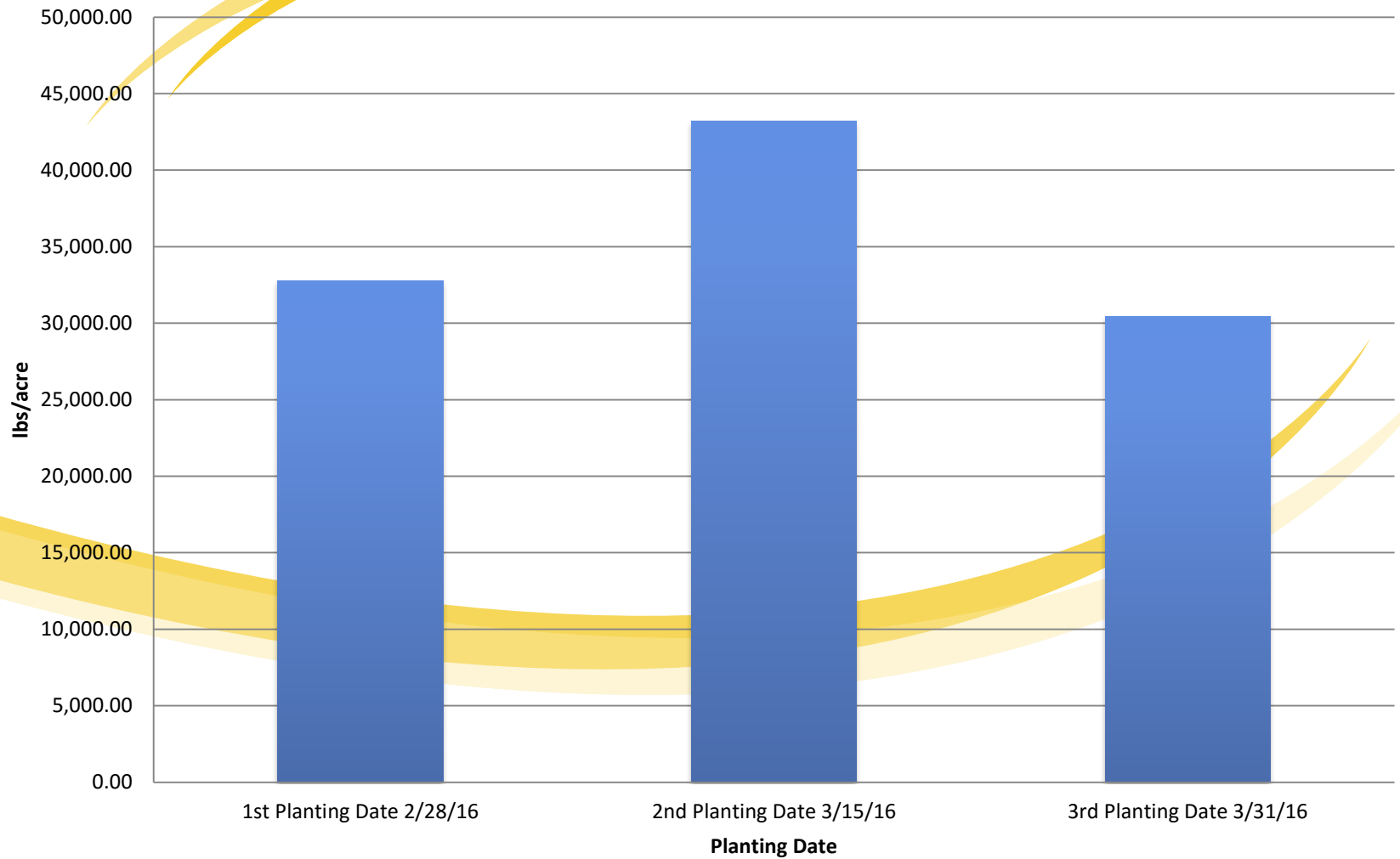
Packing Boxes



Best performance by planting date

Varieties	1st	2nd	3rd	Overall
	Total Yield (lbs/A)	Total Yield (lbs/A)	Total Yield (lbs/A)	Total Yield (lbs/A)
SV8579TE	40,100.40	50,990.67	35,187.68	42,092.92
TAM Hot-Ty	28,810.82	57,718.44	33,735.64	40,088.30
Shourouq	39,083.98	49,550.74	29,040.73	39,225.15
DRP-8551	46,029.55	35,296.58	35,792.69	39,039.61
Mykonos	30,226.56	48,836.82	34,171.25	37,744.88
Prunus	27,134.93	45,666.54	36,228.31	36,343.26
Seri	38,309.56	35,599.09	31,242.98	35,050.54
Torero	24,152.20	34,994.07	18,029.45	25,725.24
Rio Grande	21,308.63	30,105.55	20,836.72	24,083.64
AVG	32,795.18	43,195.39	30,473.94	

Average Yield by Planting Date

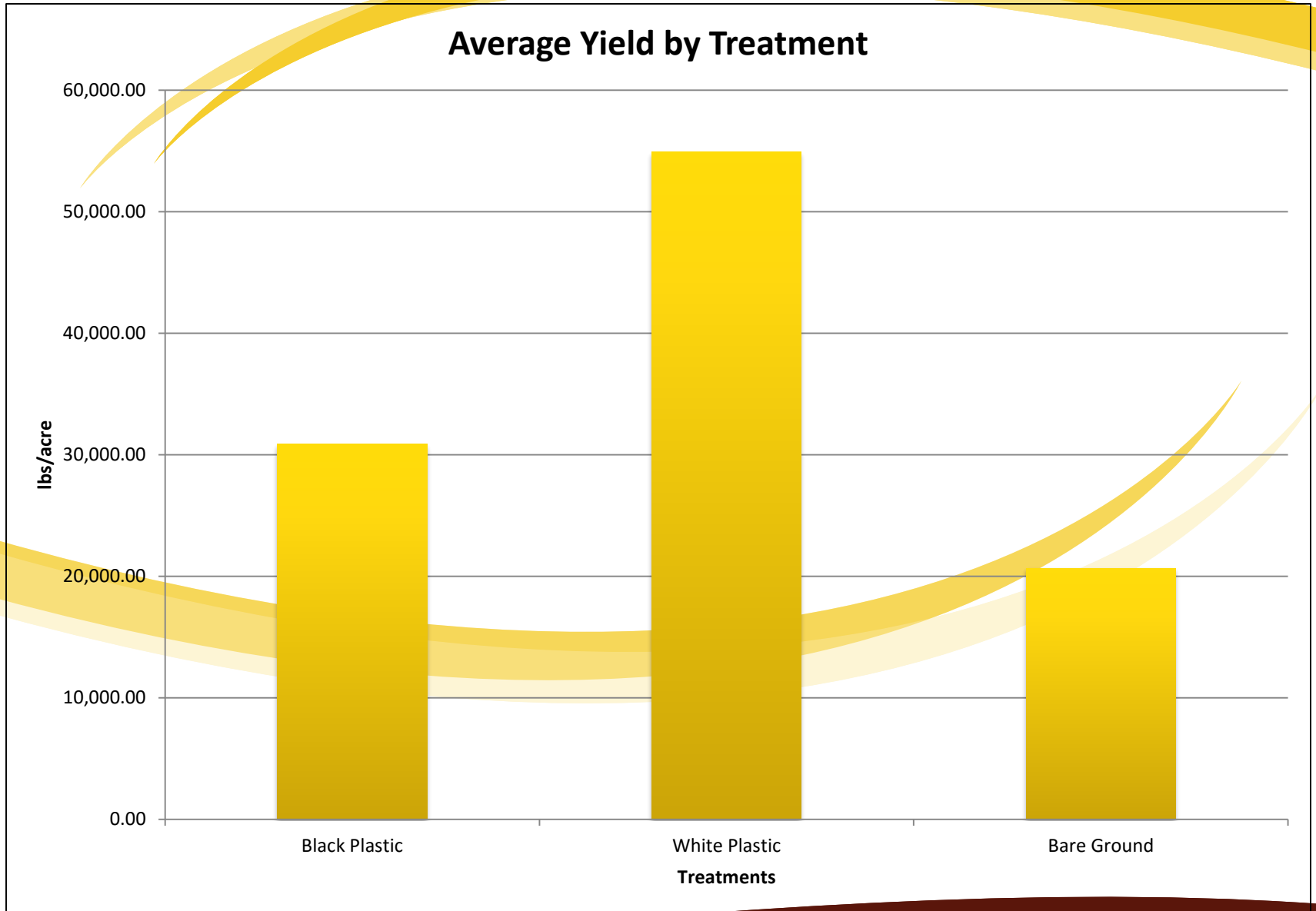


Best performance by treatment

Varieties	Black Plastic	White Plastic	Bare Ground	Overall
	Total Yield (lbs/A)	Total Yield (lbs/A)	Total Yield (lbs/A)	Total Yield (lbs/A)
SV8579TE	38,067.55	62,461.76	25,749.44	42,092.92
TAM Hot-Ty	34,546.36	67,277.68	18,440.86	40,088.30
Shourouq	33,094.33	57,863.65	26,717.47	39,225.15
DRP-8551	30,250.76	58,238.76	28,629.32	39,039.61
Mykonos	29,331.13	60,985.52	22,917.97	37,744.88
Prunus	35,139.28	54,475.56	19,414.94	36,343.26
Seri	37,462.54	43,198.08	24,491.01	35,050.54
Torero	22,603.37	43,561.09	11,011.28	25,725.24
Rio Grande	17,460.74	46,198.95	8,591.21	24,083.64
AVG	30,884.01	54,917.90	20,662.61	

2016 Tomato yield spring trial - Weslaco, TX

Average Yield by Treatment



Best of the best

2nd Planting Date: White Plastic

Varieties	**Total Yield (lbs./A)	***Harvested fruit (% fruit size grade)			
		Extra large (2 ¾ in)	Large (2 ½ in)	Medium (2 ¼ in)	Culls
TAM Hot-Ty (g)	107,668.49	3	24	34	39
Shourouq (g)	90,534.46	18	43	29	10
Mykonos (g)	90,461.86	19	50	31	0
SV8579TE (r)	75,941.50	0	8	74	18
Prunus (r)	74,634.67	0	15	40	45
Rio Grande (r)	65,995.05	0	0	32	68
Torero (g)	63,018.38	6	37	57	0
DRP-8551 (r)	51,728.79	1	33	30	36
Seri (r)	45,811.75	0	14	52	34

Best of the best

2nd Planting Date: White Plastic

Varieties	**Total Yield (lbs./A)	***Harvested fruit (Boxes Per Acre)			
		Marketable Yield (lbs/A)	Extra Large (2 ¾ in)	Large (2 ½ in)	Medium (2 ¼ in)
TAM Hot-Ty (g)	107,668.49	65,677.77	129	1,033	1,464
Shourouq (g)	90,534.46	81,489.11	652	1,557	1,050
Mykonos (g)	90,461.86	90,461.86	687	1,809	1,121
SV8579TE (r)	75,941.50	62,272.03	0	243	2,247
Prunus (r)	74,634.67	41,049.06	0	448	1,194
Rio Grande (r)	65,995.05	21,118.41	0	0	884
Torero (g)	63,018.38	63,018.38	151	932	1,437
DRP-8551 (r)	51,728.79	33,106.42	21	683	620
Seri (r)	45,811.75	30,235.75	0	257	953

Best fruit quality

Varieties	*Fruit Quality		
	Brix (%)	Diameter (cm)	Thickness (cm)
TAM Hot-Ty	4.85	7.39	0.80
SV8579TE	4.61	6.23	0.94
Mykonos	4.58	7.49	0.89
Shourouq	4.56	7.77	0.91
Seri	4.54	5.70	0.91
Torero	4.46	7.30	0.92
Rio Grande	4.35	4.93	0.94
DRP-8551	4.34	6.06	0.96
Prunus	4.16	5.21	0.91



UNDEVELOPED



IMMATURE



MATURE GREEN



BREAKERS 1



BREAKERS 2



LIGHT PINK



DARK PINK



TABLE RIPE

Results

- Varieties that best performed on black, white and bare ground:
SV8579TE (roma) - yield 42,092 lbs/acre; TAM Hot-Ty (round) - yield 40,088 lbs/acre; Shourouq (round)- yield 39,225 lbs/acre.
- 2nd planting date produced higher yields (avg. 43,195 lbs/acre)
Mid March (Recommendations 2/24 to 3/31)
- Best yields with mulches: white plastic treatment (avg. 54,917 lbs/acre) followed by black then bare ground
- Best Varieties under best management:
Round – Mykonos, Shourouq, TAM Hot TY and Torero
Roma - SV8579TE and Prunus

List of varieties and type

1. Torero (round) Paramount Seeds
2. Mykonos (round) NA
3. Shourouq (round) NA
4. TAM Hot-Ty (round) Texas A&M NA
5. Prunus (roma) Paramount Seeds
6. Rio Grande (roma) (OP) Ebay
7. Seri (roma) NA
8. DRP-8551 (roma) NA
9. SV8579TE (roma) NA

