



NORTH MISSISSIPPI RESEARCH
& EXTENSION CENTER



Southeast Organic Partnership

2018 Mississippi Grower and Research Farm Data Summary

2018 Mississippi Grower Summary

- Five Mississippi Growers Participated
 - Bountiful Harvest Farms-Sam and Isabel McLemore
 - Native Son Farm- Will and Amanda Reed
 - Englert Farm- Caleb Englert
 - Two Dog Farms-Van and Dorothy Killen
 - Choctaw Fresh Produce-MS Band of Choctaw Indians
(Daphne Snow- Farm Manager)



2018 Mississippi Grower Summary

Native Son Farm

Tomato	lbs
Celebrity	61
Rocky Top	43

Beets	lbs
Zeppo	1
Boro	1



2018 Mississippi Grower Summary

- Challenging year due to excessive rain
- Blight pressure losses on tomato yield
- Setup of trial for 2019 a must
- Beets worms troubling
- Boro and zeppo beets similar, not good yielding year

2018
Mississippi
Grower
Summary



**BOUNTIFUL
HARVEST
FARMS**

Bountiful Harvest Farm

Tomato

	lbs	per plant
Celebrity	12.08	0.5
Mt. Magic	23.17	0.96

Squash

	lbs	per plant
Gentry	55.54	2.31
Zephyr	46.46	1.95

2018
Mississippi
Grower
Summary



**BOUNTIFUL
HARVEST
FARMS**

- Tomato crop had average and squash had low uniformity
- Challenging year due to excessive rain and heat
- Tomato disease pressure
- Squash pickleworm abundant
- Learning year for 2018 trial

2018 Mississippi Grower Summary

Englert Farm

Sweetpotato

BU/ac

Covington

300+

Garnet

300+

Kale

Lacinato

n/a

Winterbor

n/a



2018 Mississippi Grower Summary

- Learning curve with kale
- No pest/disease issues
- Sweetpotato yield were good for organic production
- No pest/disease pressure
- Drought in late summer for sweetpotato sizing
- Wet conditions for harvest





2018 Mississippi Grower Summary

Choctaw Fresh Produce

Southern Pea	lbs	per plant
PPH	23	0.96
MS	22	0.92
Collards		
Flash	n/a	
Champion	n/a	



2018 Mississippi Grower Summary

- Record keeping will be assigned to multiple people to get better data
- Uniformity of peas not great, added seed by hand to fill gaps
- Planted sweet corn, did not do good. Replaced with collards in fall
- Collards did not produce until after October so no harvest data.
- Learning year with trial

2018 Mississippi Grower Summary



TWO DOG
FARMS

2018
Research
Farm Trial



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	Per acre				Total per Acre	
	Fancy		Marketable			
Cultivar	number	wt (lbs)	number	wt (lbs)	Number	Wt (lbs)
G	37905 a	6002.58 a	29520 a	10458 b	67425 a	16461 a
SB	11249 c	2640.75 b	20043 b	12829 ab	31292 c	15470 a
Z	16362 b	3269.34 b	27065 b	13642 a	43427 b	16912 a
P-Value	***	***	**	*	***	ns
SE	914	220.98	2172	1117	2608	1212
	<0.0001	<0.0001	0.0016	0.0279	<0.0001	0.4538
Trt						
1	23180 a	4442.63 a	24725 a	12693 a	47904 a	17136 a
2	21634 ab	2805.73 ab	24179 a	11258 a	45814 a	15064 a
3	22634 ab	4182.14 ab	25361 a	12095 a	47995 a	16277 a
4	19907 b	3453.06 b	27906 a	13194 a	47813 a	16648 a
P-Value	ns	*	ns	ns	ns	ns
SE	1055	255.16	2395	1215	2863	1301
	0.1565	0.0506	0.5794	0.5246	0.8981	0.4649

2018 Research Farm Trial

	Per Acre		Per plot	
	Fancy	Marketable	Culls	
Cultivar	1/2 Bushel Box	1/2 Bushel Box	number	wt (g)
G	285 a	498 b	1.0 b	355.39 b
SB	125 b	610 b	0.81 b	567.40 ab
Z	155 b	649 a	1.75 a	851.25 a
P-Value	***	*	*	*
SE	10	53	0.33	169.98
	<0.0001	0.0279	0.0347	0.0419
Trt				
1	211 a	604 a	1.17 a	582.13 ab
2	181 ab	536 a	0.92 a	459.22 b
3	199 ab	575 a	0.92 a	478.92 ab
4	164 b	628 a	1.75 a	845.12 a
P-Value	*	ns	ns	ns
SE	12	57	0.36	186.53
	0.0506	0.5246	0.1749	0.2794

2018 Research Farm Trial

Cultivar	Pod wt (lbs/ac)	Pea wt (lbs/ac)	Pod wt/plant	Pea wt/plant
Coronet	1881 a	1007 a	16.33 a	8.75 a
Queen Ann	1081 b	486 b	9.39 b	4.22 b
Mississippi Silver	1634 ab	890 a	14.19 ab	7.73 a
P-Value	*	**	*	**
SE	25.94	14.09	1.73	0.94

2018 Research Farm Trial

Trt	Pod wt (lbs/ac)	Pea wt (lbs/ac)	Pod wt/plant	Pea wt/plant
Control	1471 a	751 a	12.78 a	6.52 a
Pyrethrum	1520 a	804 a	13.20 a	6.98 a
Spinosad	1488 a	768 a	12.92 a	6.67 a
Neem Oil	1650 a	854 a	14.33 a	7.42 a
P-Value	ns	ns	ns	ns
SE	29.95	16.27	1.99	1.09

2018 Research Farm Trial



