SUMMARY OF 2011 SOUTH GEORGIA CROP ENTERPRISE ESTIMATES

By A.R. Smith, N.B. Smith and W.D. Shurley, UGA Extension Economists, Department of Agricultural & Applied Economics

Updated January 2011

Conventional Tillage			IRR	IRRIGATED NON-IRRIGATED								
				RR	Grain	Int Mgmt			RR	RR	Grain	
	Cotton	Peanuts	Corn	Soybeans	Sorghum	Wheat	Cotton	Peanuts	Corn	Soybeans	Sorghum	Wheat
EXPECTED YIELD	1,100	4,000	185	55	100	75	700	2,800	85	30	65	55
EXPECTED SEASON AVG PRICE	\$0.90	\$550	\$5.50	\$11.50	\$5.17	\$6.50	\$0.90	\$550	\$5.50	\$11.50	\$5.17	\$6.50
GROSS RETURN	\$990	\$1,100	\$1,018	\$633	\$517	\$488	\$630	\$770	\$468	\$345	\$336	\$358
VARIABLE COSTS												
Seed	78	105	90	50	15	45	78	105	53	51	7	30
BWEP	1.44						0.92					
Fertilizer & Lime*	134	52	254	72	125	133	103	52	116	72	107	94
Chicken Litter												
Chemicals	81	178	16	67	15	41	77	151	16	37	15	16
Custom Application/Hand Weeding												
Scouting	10						10					
Fuel and Lube**	38	64	21	20	21	28	37	64	21	20	21	15
Repairs and Maintenance	22	44	15	13	14	15	23	44	15	13	14	8
Irrigation***	83	62	83	52	36							
Labor	26	34	11	10	11	13	25	34	11	10	11	7
Insurance	16	28	14	15	19	10	27	35	19	16	13	9
Land Rent												
Other												
Interest on Operating Capital	16	18	16	10	8	9	12	16	8	7	6	6
Gin & Warehouse (net after cottonseed)	28						18					
Drying and Cleaning		48	57		31	6		34	26		20	5
Marketing and Fees		13						9				
TOTAL VARIABLE COSTS	\$535	\$645	\$577	\$309	\$295	\$299	\$411	\$542	\$285	\$226	\$214	\$189
RETURN ABOVE VARIABLE COST	\$455	\$455	\$440	\$324	\$222	\$189	\$219	\$228	\$183	\$119	\$122	\$168
BREAKEVEN PRICE	\$0.49	\$323	\$3.12	\$5.61	\$2.95	\$3.99	\$0.59	\$387	\$3.35	\$7.55	\$3.29	\$3.44
EIVED COOTS												
FIXED COSTS	00	404	50	47	40	50	00	404	50	47	40	00
Machinery and Equipment	99	131	50	47	49	52	99	131	50	47	49	32
Irrigation	110	110	110	110	110							
Buildings	07			4-	4-	4.5	0.4	07		4.4	4.4	
Miscellaneous Overhead	27	32	29	15	15	15	21	27	14	11	11	9
TOTAL SPECIFIED FIXED COSTS	\$236	\$274	\$189	\$172	\$174	\$67	\$120	\$158	\$64	\$58	\$60	\$41
TOTAL COST EXCL. LAND & MGT	\$771	\$919	\$766	\$481	\$469	\$366	\$531	\$701	\$349	\$285	\$274	\$231
RETURN TO LAND AND MGT	\$219	\$181	\$251	\$152	\$48	\$122	\$99	\$69	\$118	\$60	\$62	\$127
*****EXCEL© TEMPLATE MAY BE MO	ODIFIED BY	THE USER	****									
BREAKEVEN PRICE (Total Costs)	\$0.70	\$459	\$4.14	\$8.74	\$4.69	\$4.88	\$0.76	\$500	\$4.11	\$9.49	\$4.21	\$4.19
BREAKEVEN YIELD	857	3,340	139	42	91	56	590	2,548	64	25	53	35
* Expected fertilizer \$/lb. of nutrient are	e as follows:	N=	\$0.60	P= \$	0.45	K=	\$0.50					

^{**} Diesel fuel price of: \$3.00 per Gallon



^{***} Average of diesel and electric irrigation application costs. Electric is estimated at \$7/appl and diesel is estimated at \$13.25/appl when diesel cost \$3/gal.

Sensitivity Analysis of Yields and Prices of Conventional-Tillage, Irrigated Crops, South Georgia 2011

By A.R. Smith, N.B. Smith and W.D. Shurley, UGA Extension Economists, Department of Agricultural & Applied Economics

Updated January 2011

Irrigated Corn											
NET RETURNS ABOVE VARIABLE COSTS PER ACRE											
Yield -25% -10% Average +10% +2									25%		
Price		139		167		185		204		231	
\$4.68	\$	72	\$	201	\$	288	\$	374	\$	504	
\$4.95	\$	110	\$	247	\$	339	\$	430	\$	568	
\$5.50	\$	186	\$	339	\$	440	\$	542	\$	695	
\$6.05	\$	262	\$	430	\$	542	\$	654	\$	822	
\$6.33	\$	300	\$	476	\$	593	\$	710	\$	886	

Irrigated Cotton											
NET RETURNS ABOVE VARIABLE COSTS PER ACRE											
Yield	-	25%	-	10%	Αv	erage	+	10%	+25%		
Price		825		990	1	,100	1	,210	1	,375	
\$0.81	\$	133	\$	267	\$	356	\$	445	\$	579	
\$0.86	\$	170	\$	311	\$	405	\$	499	\$	640	
\$0.90	\$	207	\$	356	\$	455	\$	554	\$	702	
\$0.95	\$	244	\$	400	\$	504	\$	608	\$	764	
\$0.99	\$	282	\$	445	\$	554	\$	663	\$	826	

Irrigated Grain Sorghu	Sorghum
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gatoa orani oorgiianii												
NET RETURNS ABOVE VARIABLE COSTS PER ACRE												
Yield	25%	-	·10%	Αv	erage	10%	+	25%				
Price		75		90		100		110	125			
\$4.39	\$	34	\$	100	\$	144	\$	188	\$	254		
\$4.65	\$	54	\$	123	\$	170	\$	216	\$	286		
\$5.17	\$	92	\$	170	\$	222	\$	273	\$	351		
\$5.69	\$	131	\$	216	\$	273	\$	330	\$	416		
\$5.95	\$	151	\$	240	\$	299	\$	359	\$	448		

Irrigated	Peanuts
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irrigated i candis										
NET RETURNS ABOVE VARIABLE COSTS PER ACRE										
Yield	25%	-10% Average				+	10%	+25%		
Price	3,000			,600	00 4,000 4,400			5	,000	
\$495	\$	97	\$	246	\$	345	\$	444	\$	592
\$523	\$	139	\$	295	\$	400	\$	504	\$	661
\$550	\$	180	\$	345	\$	455	\$	565	\$	730
\$578	\$	221	\$	394	\$	510	\$	625	\$	799
\$605	\$	262	\$	444	\$	565	\$	686	\$	867

Irrigated Sovbeans

	in igated coybodine												
•	NET RETURNS ABOVE VARIABLE COSTS PER ACRE												
Yield -25% -10% Average +10% +25%													
	Price		41		50		55		61		69		
	\$9.78	\$	95	\$	175	\$	229	\$	283	\$	363		
	\$10.35	\$	118	\$	204	\$	261	\$	318	\$	403		
	\$11.50	\$	166	\$	261	\$	324	\$	387	\$	482		
	\$12.65	\$	213	\$	318	\$	387	\$	457	\$	561		
	\$13.23	\$	237	\$	346	\$	419	\$	492	\$	601		

Intensively Managed Wheat

NET RETURNS ABOVE VARIABLE COSTS PER ACRE											
Yield		-25%		-10%		verage	-	⊦ 10%	7	-25%	
Price		56	68		75 8		83	94			
\$5.53	\$	12	\$	74	\$	115	\$	157	\$	219	
\$5.85	\$	30	\$	96	\$	140	\$	184	\$	249	
\$6.50	\$	67	\$	140	\$	189	\$	237	\$	310	
\$7.15	\$	103	\$	184	\$	237	\$	291	\$	371	
\$7.48	\$	122	\$	206	\$	262	\$	318	\$	402	



Sensitivity Analysis of Yields and Prices of Conventional-Tillage, Dryland Crops, South Georgia 2011

By A.R. Smith, N.B. Smith and W.D. Shurley, UGA Extension Economists, Department of Agricultural & Applied Economics

Updated January 2011

Dryland Corn											
NET RETURNS ABOVE VARIABLE COSTS PER ACRE											
Yield -25% -10% Average +10% +25									25%		
Price		64		77		85		94		106	
\$4.68	\$	13	\$	73	\$	112	\$	152	\$	212	
\$4.95	\$	31	\$	94	\$	136	\$	178	\$	241	
\$5.50	\$	66	\$	136	\$	183	\$	229	\$	299	
\$6.05	\$	101	\$	178	\$	229	\$	281	\$	358	
\$6.33	\$	118	\$	199	\$	253	\$	306	\$	387	

Dryland Cotton											
NET RETURNS ABOVE VARIABLE COSTS PER ACRE											
Yield	-	25%		-10%	A٠	verage	+	·10%	+	25%	
Price		525		630		700		770		875	
\$0.81	\$	14	\$	99	\$	156	\$	213	\$	298	
\$0.86	\$	38	\$	128	\$	188	\$	247	\$	337	
\$0.90	\$	62	\$	156	\$	219	\$	282	\$	377	
\$0.95	\$	85	\$	184	\$	251	\$	317	\$	416	
\$0.99	\$	109	\$	213	\$	282	\$	351	\$	455	

Drylar	nd Gra	ain So	rghum
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= 1 j 1 stati												
NE	NET RETURNS ABOVE VARIABLE COSTS PER ACRE											
Yield		-25%		-10%	Α١	/erage	+	·10%	+25%			
Price				59		65		72	81			
\$4.39	\$	0	\$	43	\$	72	\$	100	\$	143		
\$4.65	\$	13	\$	58	\$	89	\$	119	\$	164		
\$5.17	\$	38	\$	89	\$	122	\$	156	\$	206		
\$5.69	\$	63	\$	119	\$	156	\$	193	\$	248		
\$5.95	\$	76	\$	134	\$	173	\$	211	\$	269		

Dr	yland	l Peanuts
NET RETURNS ABO	VE V	ARIABLE (

NET RETURNS ABOVE VARIABLE COSTS PER ACRE										
Yield	-	·10%	Α١	/erage	+	10%	+25%			
Price	2	-25% 2,100		2,520		2,800		3,080		,500
\$495	\$	(22)	\$	82	\$	151	\$	220	\$	324
\$523	\$	6	\$	116	\$	189	\$	262	\$	372
\$550	\$	35	\$	151	\$	228	\$	305	\$	420
\$578	\$	64	\$	185	\$	266	\$	347	\$	468
\$605	\$	93	\$	220	\$	305	\$	390	\$	517

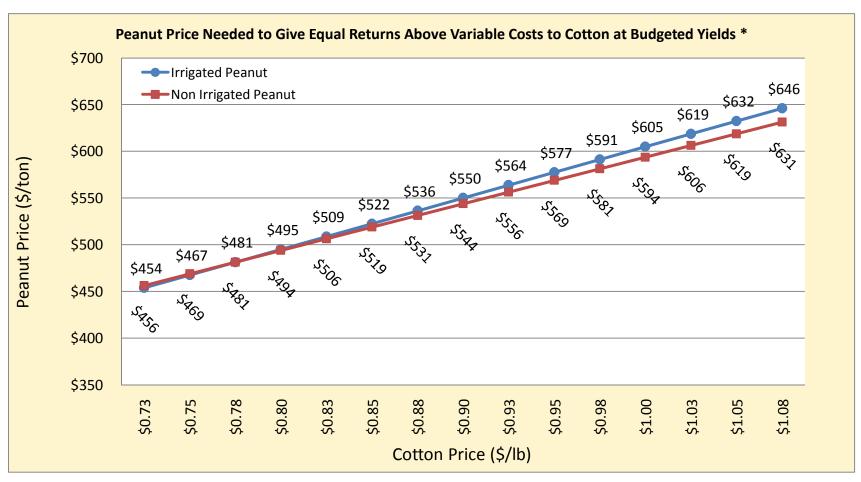
Dryland Soybeans

				i y iai ia c	JOYN	Caris					
NET RETURNS ABOVE VARIABLE COSTS PER ACRE											
Yield	-	25%		-10%	Αv	erage	+	10%	+25%		
Price		23		27		30		33		38	
\$9.78	\$	(6)	\$	38	\$	67	\$	96	\$	140	
\$10.35	\$	6	\$	53	\$	84	\$	115	\$	162	
\$11.50	\$	32	\$	84	\$	119	\$	153	\$	205	
\$12.65	\$	58	\$	115	\$	153	\$	191	\$	248	
\$13.23	\$	71	\$	131	\$	170	\$	210	\$	270	

Conventional Wheat

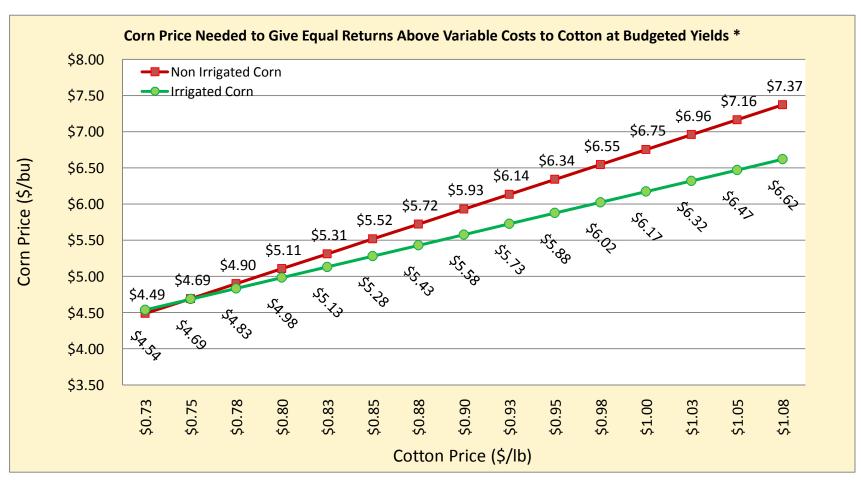
N	ET R	RETURNS	S AE	BOVE VA	RIA	BLE COS	STS	PER AC	RE	
Yield		-25%		-10%	A۱	verage	-	-10%	+	-25%
Price		41		50		55		61		69
\$5.53	\$	39	\$	84	\$	115	\$	145	\$	191
\$5.85	\$	52	\$	100	\$	133	\$	165	\$	213
\$6.50	\$	79	\$	133	\$	168	\$	204	\$	258
\$7.15	\$	106	\$	165	\$	204	\$	243	\$	302
\$7.48	\$	119	\$	181	\$	222	\$	263	\$	325





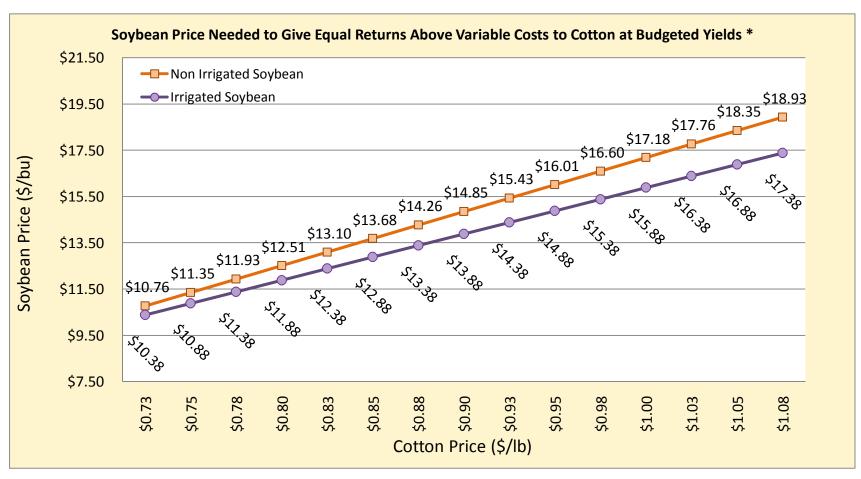
^{*} The above chart is based on the following assumptions:

- 1) Irrigated peanut is compared to irrigated cotton and non-irrigated peanut is compared to non-irrigated cotton.
- 2) Irrigated peanut yield is 4000 lbs. and irrigated cotton yield is 1100 lbs.
- 3) Non-irrigated peanut yield is 2800 lbs. and non-irrigated cotton yield is 700 lbs.
- 4) Prices shown are those needed to cover budgeted operating costs for conventional till production listed in the crop comparison tool.



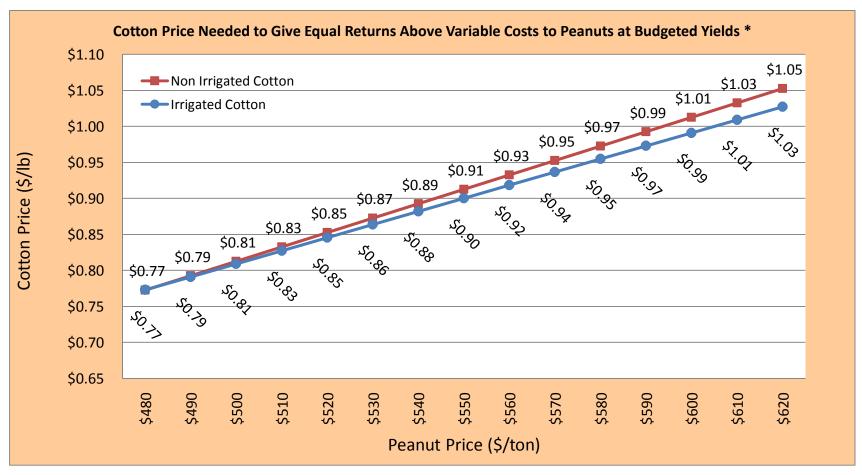
^{*} The above chart is based on the following assumptions:

- 1) Irrigated corn is compared to irrigated cotton and non-irrigated corn is compared to non-irrigated cotton.
- 2) Irrigated corn yield is 185 bu. and irrigated cotton yield is 1100 lbs.
- 3) Non-irrigated corn yield is 85 bu. and non-irrigated cotton yield is 700 lbs.
- 4) Prices shown are those needed to cover budgeted operating costs for conventional till production listed in the crop comparison tool.



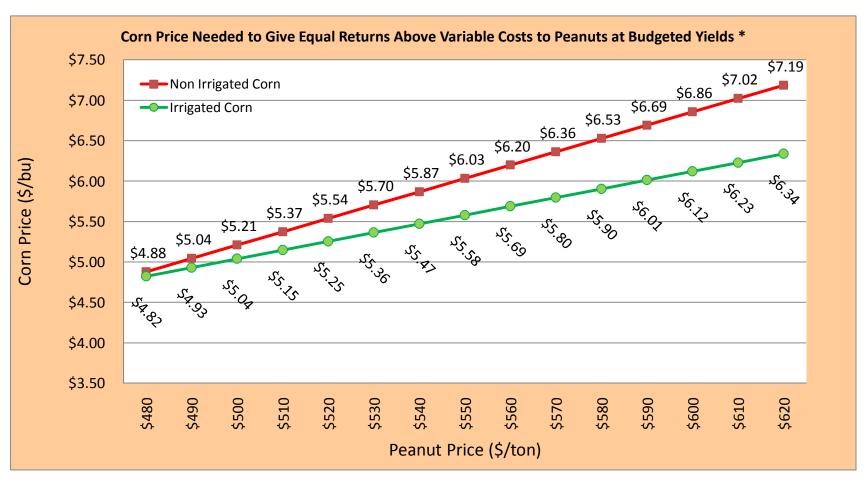
^{*} The above chart is based on the following assumptions:

- 1) Irrigated soybean is compared to irrigated cotton and non-irrigated soybean is compared to non-irrigated cotton.
- 2) Irrigated soybean yield is 55 bu. and irrigated cotton yield is 1100 lbs.
- 3) Non-irrigated soybean yield is 30 bu. and non-irrigated cotton yield is 700 lbs.
- 4) Prices shown are those needed to cover budgeted operating costs for conventional till production listed in the crop comparison tool.



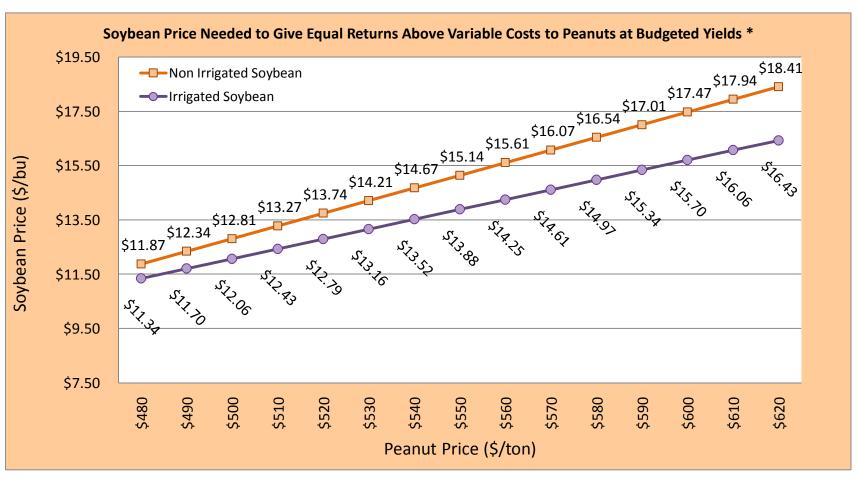
^{*} The above chart is based on the following assumptions:

- 1) Irrigated cotton is compared to irrigated peanut and non-irrigated cotton is compared to non-irrigated peanut.
- 2) Irrigated cotton yield is 1100 lbs. and irrigated peanut yield is 4000 lbs.
- 3) Non-irrigated cotton yield is 700 lbs. and non-irrigated peanut yield is 2800 lbs.
- 4) Prices shown are those needed to cover budgeted operating costs for conventional till production listed in the crop comparison tool.



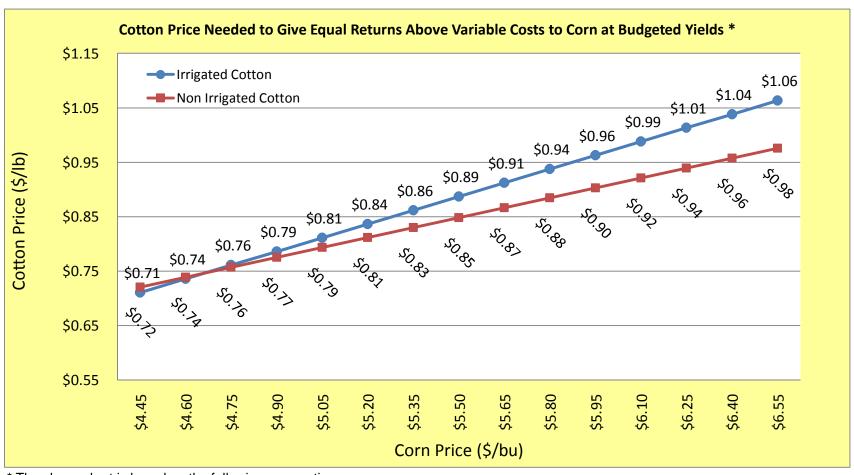
^{*} The above chart is based on the following assumptions:

- 1) Irrigated corn is compared to irrigated peanut and non-irrigated corn is compared to non-irrigated peanut.
- 2) Irrigated corn yield is 185 bu. and irrigated peanut yield is 4000 lbs.
- 3) Non-irrigated corn yield is 85 bu. and non-irrigated peanut yield is 2800 lbs.
- 4) Prices shown are those needed to cover budgeted operating costs for conventional till production listed in the crop comparison tool.



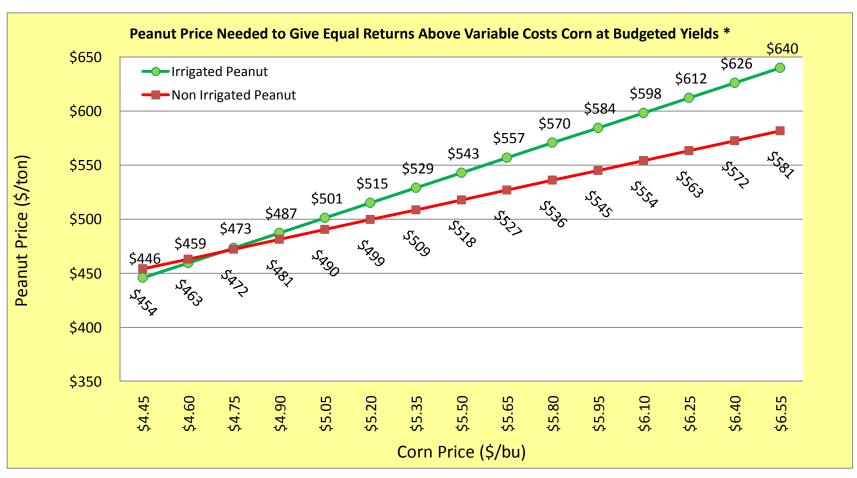
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- 2) Irrigated soybean yield is 55 bu. and irrigated peanut yield is 4000 lbs.
- 3) Non-irrigated soybean yield is 30 bu. and non-irrigated peanut yield is 2800 lbs.
- 4) Prices shown are those needed to cover budgeted operating costs for conventional till production listed in the crop comparison tool.



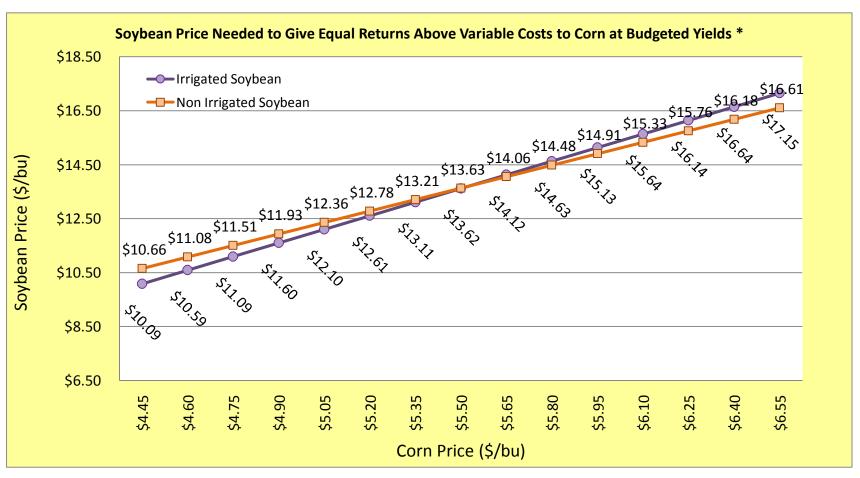
^{*} The above chart is based on the following assumptions:

- 1) Irrigated cotton is compared to irrigated corn and non-irrigated cotton is compared to non-irrigated corn.
- 2) Irrigated cotton yield is 1100 lbs. and irrigated corn yield is 185 bu.
- 3) Non-irrigated cotton yield is 700 lbs. and non-irrigated corn yield is 85 bu.
- 4) Prices shown are those needed to cover budgeted operating costs for conventional till production listed in the crop comparison tool.



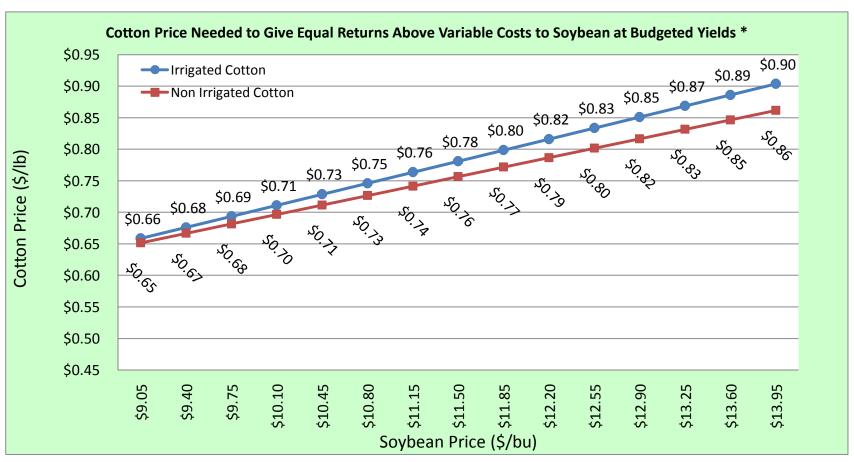
^{*} The above chart is based on the following assumptions:

- 1) Irrigated peanut is compared to irrigated corn and non-irrigated peanut is compared to non-irrigated corn.
- 2) Irrigated peanut yield is 4000 lbs. and irrigated corn yield is 185 bu.
- 3) Non-irrigated peanut yield is 2800 lbs. and non-irrigated corn yield is 85 bu.
- 4) Prices shown are those needed to cover budgeted operating costs for conventional till production listed in the crop comparison tool.



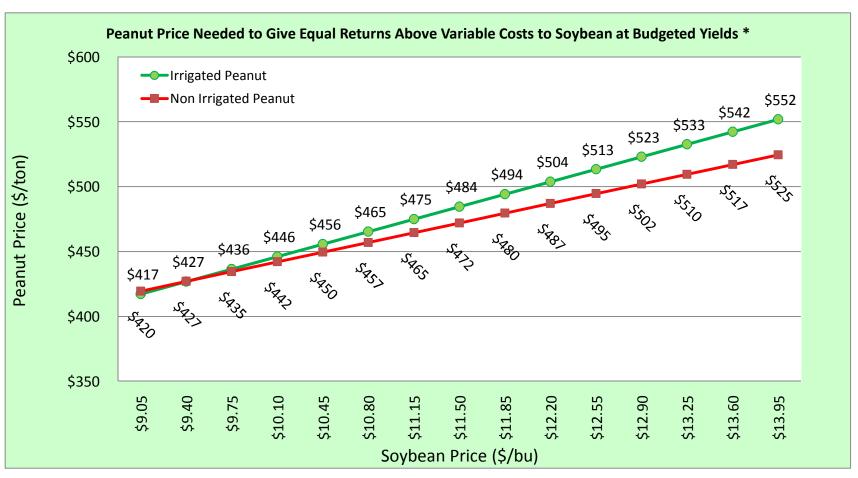
^{*} The above chart is based on the following assumptions:

- 1) Irrigated soybean is compared to irrigated corn and non-irrigated soybean is compared to non-irrigated corn.
- 2) Irrigated soybean yield is 55 bu. and irrigated corn yield is 185 bu.
- 3) Non-irrigated soybean yield is 30 bu. and non-irrigated corn yield is 85 bu.
- 4) Prices shown are those needed to cover budgeted operating costs for conventional till production listed in the crop comparison tool.



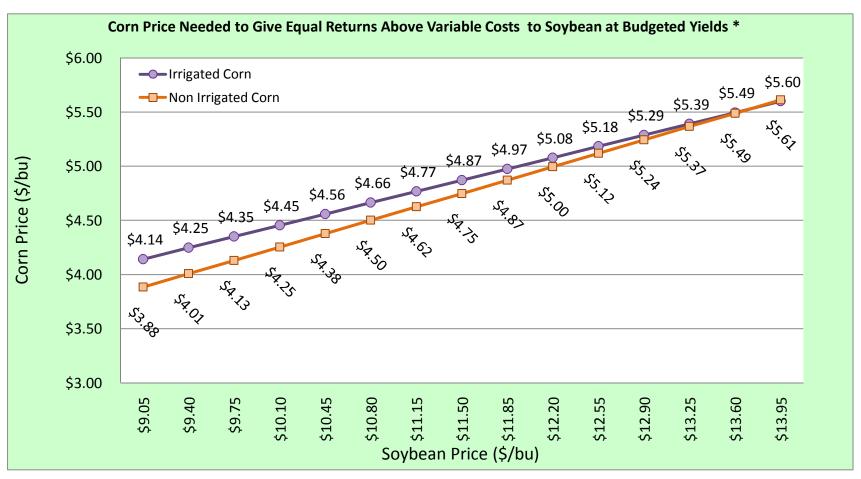
^{*} The above chart is based on the following assumptions:

- 1) Irrigated cotton is compared to irrigated soybean and non-irrigated cotton is compared to non-irrigated soybean.
- 2) Irrigated cotton yield is 1100 lbs. and irrigated soybean yield is 55 bu.
- 3) Non-irrigated cotton yield is 700 lbs. and non-irrigated soybean yield is 30 bu.
- 4) Prices shown are those needed to cover budgeted operating costs for conventional till production listed in the crop comparison tool.



^{*} The above chart is based on the following assumptions:

- 1) Irrigated peanut is compared to irrigated soybean and non-irrigated peanut is compared to non-irrigated soybean.
- 2) Irrigated peanut yield is 4000 lbs. and irrigated soybean yield is 55 bu.
- 3) Non-irrigated peanut yield is 2800 lbs. and non-irrigated soybean yield is 30 bu.
- 4) Prices shown are those needed to cover budgeted operating costs for conventional till production listed in the crop comparison tool.



^{*} The above chart is based on the following assumptions:

- 1) Irrigated corn is compared to irrigated soybean and non-irrigated corn is compared to non-irrigated soybean.
- 2) Irrigated corn yield is 185 bu. and irrigated soybean yield is 55 bu.
- 3) Non-irrigated corn yield is 85 bu. and non-irrigated soybean yield is 30 bu.
- 4) Prices shown are those needed to cover budgeted operating costs for conventional till production listed in the crop comparison tool.

SUMMARY OF 2011 SOUTH GEORGIA CROP ENTERPRISE ESTIMATES

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Updated January 2011

Updated January 2011 Strip-Tillage		1	RRIGATED			NON-IRRIGATED						
Ottip-Tillage			IMMORILD	RR	Grain		110	RR	RR	Grain		
	Cotton	Peanuts	Corn	Soybeans	Sorghum	Cotton	Peanuts	Corn	Soybeans	Sorghum		
EXPECTED YIELD	1,100	4,000	185	55	100		2,800	85	30	65		
EXPECTED SEASON AVG PRICE	\$0.90	\$550	\$5.50	\$11.50	\$5.17	\$0.90	\$550	\$5.50	\$11.50	\$5.17		
GROSS RETURN	\$990	\$1,100	\$1,018	\$633	\$517	\$630	\$770	\$468	\$345	\$336		
VARIABLE COSTS	4000	ψ.,σ <u>σ</u>	ψ.,σ.σ	- + + + + + + + + + + + + + + + + + + +	\$5	\$555	4.10	ψ.100	\$0.10	+++++++++++++++++++++++++++++++++++++		
Seed	86	105	90	51	15	86	105	53	51	7		
Cover Crop Seed*	25	25	25	25	25		25	25	25	25		
BWEP	1.44					0.92						
Fertilizer & Lime**	134	52	254	72	125	103	52	116	72	107		
Chicken Litter												
Chemicals	94	193	21	74	15	82	166	21	44	15		
Custom Application/Hand Weeding												
Scouting	10					10						
Fuel and Lube***	33	52	20	17	17	31	52	20	17	17		
Repairs and Maintenance	20	37	12	11	12	20	37	12	11	12		
Irrigation****	72	52	72	41	26							
Labor	24	29	9	8	9	22	29	9	8	9		
Insurance	16	28	14	15	19	27	35	19	16	13		
Land Rent												
Other												
Interest on Operating Capital	17	19	17	10	9	13	16	9	8	7		
Gin & Warehouse (net after cottonseed)	28					18						
Drying and Cleaning		48	57		31		34	26		20		
Marketing and Fees		13					9					
TOTAL VARIABLE COSTS	\$561	\$651	\$592	\$323	\$302	\$439	\$558	\$310	\$251	\$231		
RETURN ABOVE VARIABLE COST	\$429	\$449	\$426	\$309	\$215	\$191	\$212	\$157	\$94	\$105		
BREAKEVEN PRICE	\$0.51	\$326	\$3.20	\$5.88	\$3.02	\$0.63	\$399	\$3.65	\$8.37	\$3.55		
-W 000-0												
FIXED COSTS	00	440	40	40	40	00	440	40	40	40		
Machinery and Equipment	88	113	43	40	42	88	113	43	40	42		
Irrigation	110	110	110	110	110							
Buildings	00	00	00	40	4.5	00	00	40	40	40		
Miscellaneous Overhead	28	33	30	16	15	22	28	16	13	12		
TOTAL SPECIFIED FIXED COSTS	\$226	\$255	\$183	\$166	\$167	\$109	\$140	\$59	\$53	\$54		
TOTAL COST EXCL. LAND & MGT	\$787	\$906	\$775	\$490	\$469	\$548	\$699	\$369	\$304	\$285		
RETURN TO LAND AND MGT	\$203	\$194	\$243	\$143	\$48	\$82	\$71	\$98	\$41	\$51		
	+200	4.5.		7.10	V.0		+,-	+ + + + + + + + + + + + + + + + + + + +	<u> </u>	70.		
BREAKEVEN PRICE (Total Costs)	\$0.72	\$453	\$4.19	\$8.91	\$4.69	\$0.78	\$499	\$4.34	\$10.14	\$4.38		
BREAKEVEN YIELD	874	3,296	141	43	91	609	2,541	67	26	55		

^{*} Value only if the cover crop is not harvested, i.e. wheat for grain, etc.

^{****} Average of diesel and electric irrigation application costs. Electric is estimated at \$7/appl and diesel is estimated at \$13.25/appl when diesel cost \$3/gal.



^{**} Expected fertilizer \$/lb.of nutrient are as follows: N= \$0.60 P= \$0.45 K= \$0.50

^{***} Diesel Fuel Price of:

^{\$3.00} per Gallon

Sensitivity Analysis of Yields and Prices on Strip-Tillage, Irrigated Crops, South Georgia 2011

By A.R. Smith, N.B. Smith and W.D. Shurley, UGA Extension Economists, Department of Agricultural & Applied Economics

Updated January 2011

	Irrigated Corn, Strip Till													
NE	NET RETURNS ABOVE VARIABLE COSTS PER ACRE													
Yield -25% -10% Average +10% +25%														
Price		139		167		185		204	231					
\$4.68	\$	57	\$	187	\$	273	\$	360	\$	489				
\$4.95	\$	95	\$	232	\$	324	\$	416	\$	553				
\$5.50	\$	171	\$	324	\$	426	\$	527	\$	680				
\$6.05	\$	248	\$	416	\$	527	\$	639	\$	807				
\$6.33	\$	286	\$	461	\$	578	\$	695	\$	871				

Irrigated Cotton, Strip Till													
NE	NET RETURNS ABOVE VARIABLE COSTS PER ACRE												
Yield -25% -10% Average +10% +25%													
Price	3	325	!	990	1	,100	1	,210	1	,375			
\$0.81	\$	107	\$	241	\$	330	\$	419	\$	552			
\$0.86	\$	144	\$	285	\$	379	\$	473	\$	614			
\$0.90	\$	181	\$	330	\$	429	\$	528	\$	676			
\$0.95	\$	218	\$	374	\$	478	\$	582	\$	738			
\$0.99	\$	255	\$	419	\$	528	\$	637	\$	800			

Irrigated Grain Sorghum, Strip Till												
NET RETURNS ABOVE VARIABLE COSTS PER ACRE												
Yield		-25%		-10%	А١	erage	+	10%	+	25%		
Price		75		90		100		110		125		
\$4.39	\$	28	\$	94	\$	138	\$	182	\$	248		
\$4.65	\$	47	\$	117	\$	164	\$	210	\$	280		
\$5.17	\$	86	\$	164	\$	215	\$	267	\$	345		
\$5.69	\$	125	\$	210	\$	267	\$	324	\$	409		
\$5.95	\$	144	\$	233	\$	293	\$	352	\$	441		

	Irrigated Peanuts, Strip Till											
N	ET R	ETURNS	S AB	OVE VA	RIAE	BLE COS	STS I	PER AC	RE			
Yield	-	25%	-	10%	Αv	erage	+	10%	+	25%		
Price	3	3,000	3	,600	4	,000	4	,400	5	,000		
\$495	\$	91	\$	240	\$	339	\$	438	\$	586		
\$523	\$	132	\$	289	\$	394	\$	498	\$	655		
\$550	\$	174	\$	339	\$	449	\$	559	\$	724		
\$578	\$	215	\$	388	\$	504	\$	619	\$	792		
\$605	\$	256	\$	438	\$	559	\$	680	\$	861		

NE	NET RETURNS ABOVE VARIABLE COSTS PER ACRE										
Yield	-	25%	-	·10%	Α١	/erage	+	·10%	+25%		
Price		41		50		55		61	69		
\$9.78	\$	80	\$	161	\$	214	\$	268	\$	349	
\$10.35	\$	104	\$	189	\$	246	\$	303	\$	388	
\$11.50	\$	151	\$	246	\$	309	\$	372	\$	467	
\$12.65	\$	198	\$	303	\$	372	\$	442	\$	546	

331 \$

404 \$

477 \$

586

Irrigated Soybeans, Strip Till



222 \$

\$13.23

Sensitivity Analysis of Yields and Prices on Strip-Tillage, Dryland Crops, South Georgia 2011

By A.R. Smith, N.B. Smith and W.D. Shurley, UGA Extension Economists, Department of Agricultural & Applied Economics

Updated January 2011

	Dryland Corn, Strip Till												
NET RETURNS ABOVE VARIABLE COSTS PER ACRE													
Yield -25% -10% Average +10% +25%													
Price		64		77		85		94		106			
\$4.68	\$	(12)	\$	47	\$	87	\$	127	\$	186			
\$4.95	\$	5	\$	68	\$	110	\$	153	\$	216			
\$5.50	\$	40	\$	110	\$	157	\$	204	\$	274			
\$6.05	\$	75	\$	153	\$	204	\$	255	\$	333			
\$6.33	\$	93	\$	174	\$	227	\$	281	\$	362			

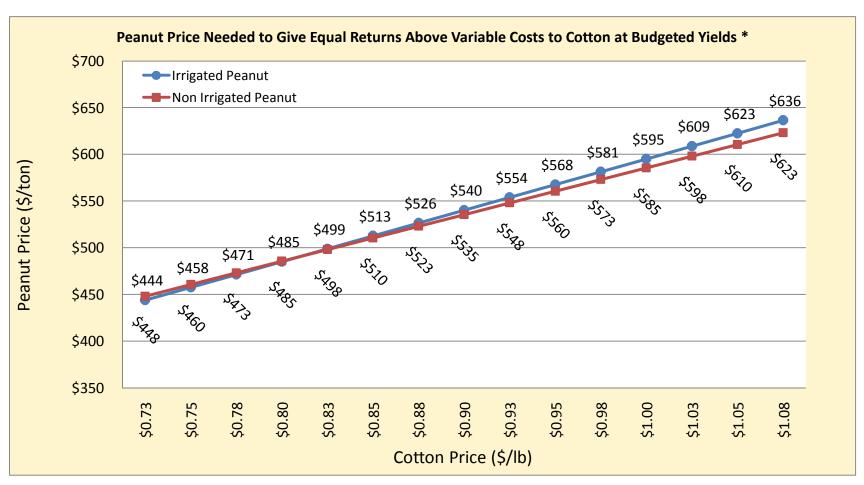
Dryland Cotton, Strip Till										
NET RETURNS ABOVE VARIABLE COSTS PER ACRE										
Yield	-	25%	-10%		Average		+10%		+25%	
Price 525		630		700		770		875		
\$0.81	\$	(13)	\$	72	\$	128	\$	185	\$	270
\$0.86	\$	10	\$	100	\$	160	\$	220	\$	309
\$0.90	\$	34	\$	128	\$	191	\$	254	\$	349
\$0.95	\$	57	\$	157	\$	223	\$	289	\$	388
\$0.99	\$	81	\$	185	\$	254	\$	324	\$	428

Dryland Grain Sorghum, Strip Till												
NET RETURNS ABOVE VARIABLE COSTS PER ACRE												
Yield	-25%		-10%		Average		+10%		+25%			
Price	49		59		65		72		81			
\$4.39	\$	(17)	\$	26	\$	55	\$	83	\$	126		
\$4.65	\$	(4)	\$	41	\$	71	\$	102	\$	147		
\$5.17	\$	21	\$	71	\$	105	\$	139	\$	189		
\$5.69	\$	46	\$	102	\$	139	\$	176	\$	231		
\$5.95	\$	59	\$	117	\$	155	\$	194	\$	252		

Dryland Peanuts, Strip Till											
NE	NET RETURNS ABOVE VARIABLE COSTS PER ACRE										
Yield	-25%		-10%		Average		+10%		+25%		
Price	Price 2,100		2,520		2,800		3,080		3,500		
\$495	\$	(39)	\$	65	\$	135	\$	204	\$	308	
\$523	\$	(10)	\$	100	\$	173	\$	246	\$	356	
\$550	\$	19	\$	135	\$	212	\$	289	\$	404	
\$578	\$	48	\$	169	\$	250	\$	331	\$	452	
\$605	\$	77	\$	204	\$	289	\$	373	\$	500	

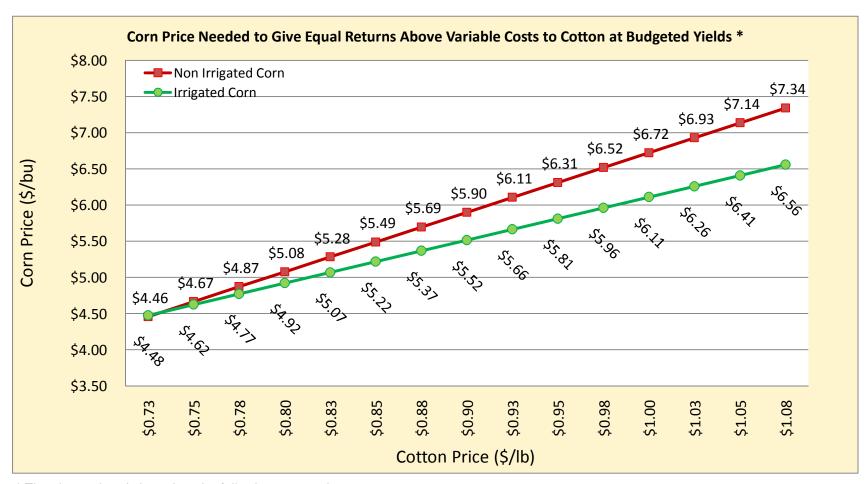
Dryland Soybeans, Strip Till											
NET RETURNS ABOVE VARIABLE COSTS PER ACRE											
Yield	-25%		-10%		Average		+10%		+25%		
Price	23		27		30		33		38		
\$9.78	\$	(31)	\$	13	\$	42	\$	71	\$	115	
\$10.35	\$	(18)	\$	28	\$	59	\$	90	\$	137	
\$11.50	\$	8	\$	59	\$	94	\$	128	\$	180	
\$12.65	\$	33	\$	90	\$	128	\$	166	\$	223	
\$13.23	\$	46	\$	106	\$	146	\$	185	\$	245	





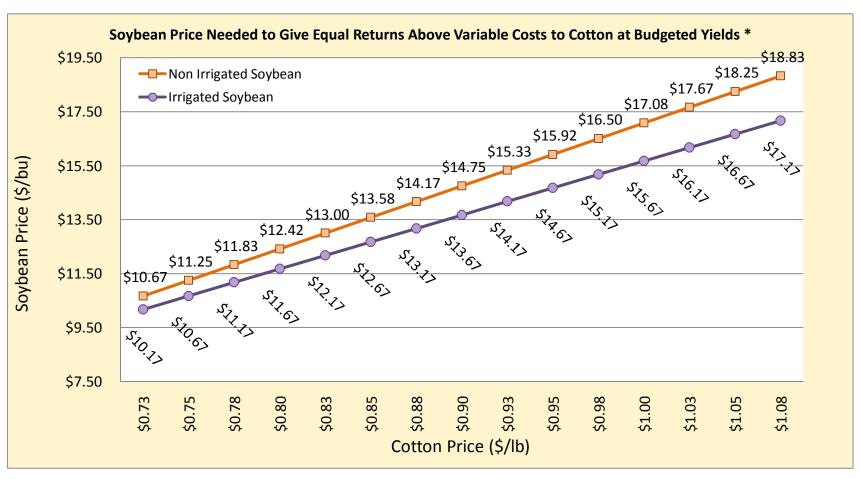
^{*} The above chart is based on the following assumptions:

- 1) Irrigated peanut is compared to irrigated cotton and non-irrigated peanut is compared to non-irrigated cotton.
- 2) Irrigated peanut yield is 4000 lbs. and irrigated cotton yield is 1100 lbs.
- 3) Non-irrigated peanut yield is 2800 lbs. and non-irrigated cotton yield is 700 lbs.
- 4) Prices shown are those needed to cover budgeted operating expenses for strip tillage production listed in the crop comparison tool.



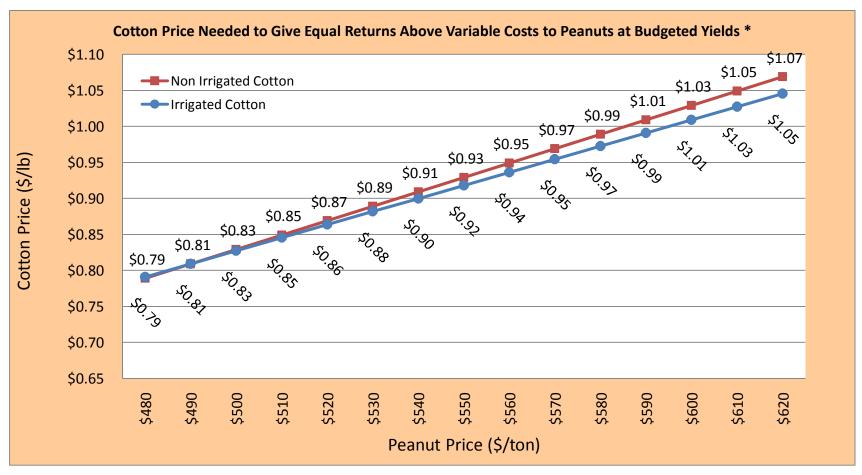
^{*} The above chart is based on the following assumptions:

- 1) Irrigated corn is compared to irrigated cotton and non-irrigated corn is compared to non-irrigated cotton.
- 2) Irrigated corn yield is 185 bu. and irrigated cotton yield is 1100 lbs.
- 3) Non-irrigated corn yield is 85 bu. and non-irrigated cotton yield is 700 lbs.
- 4) Prices shown are those needed to cover budgeted operating expenses for strip tillage production listed in the crop comparison tool.



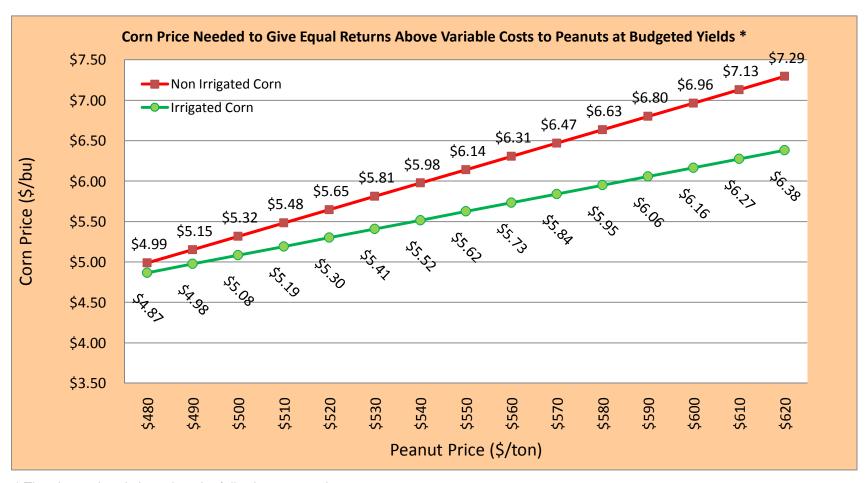
^{*} The above chart is based on the following assumptions:

- 1) Irrigated soybean is compared to irrigated cotton and non-irrigated soybean is compared to non-irrigated cotton.
- 2) Irrigated soybean yield is 55 bu. and irrigated cotton yield is 1100 lbs.
- 3) Non-irrigated soybean yield is 30 bu. and non-irrigated cotton yield is 700 lbs.
- 4) Prices shown are those needed to cover budgeted operating expenses for strip tillage production listed in the crop comparison tool.



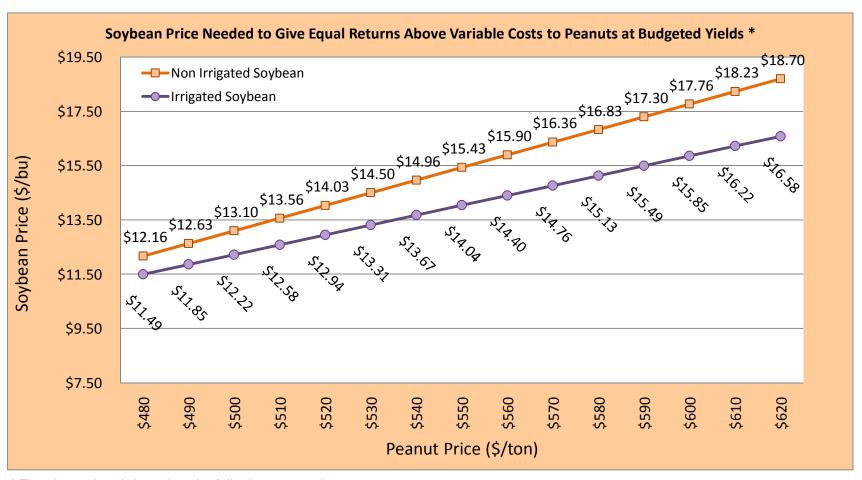
^{*} The above chart is based on the following assumptions:

- 1) Irrigated cotton is compared to irrigated peanut and non-irrigated cotton is compared to non-irrigated peanut.
- 2) Irrigated cotton yield is 1100 lbs. and irrigated peanut yield is 4000 lbs.
- 3) Non-irrigated cotton yield is 700 lbs. and non-irrigated peanut yield is 2800 lbs.
- 4) Prices shown are those needed to cover budgeted operating expenses for strip tillage production listed in the crop comparison tool.



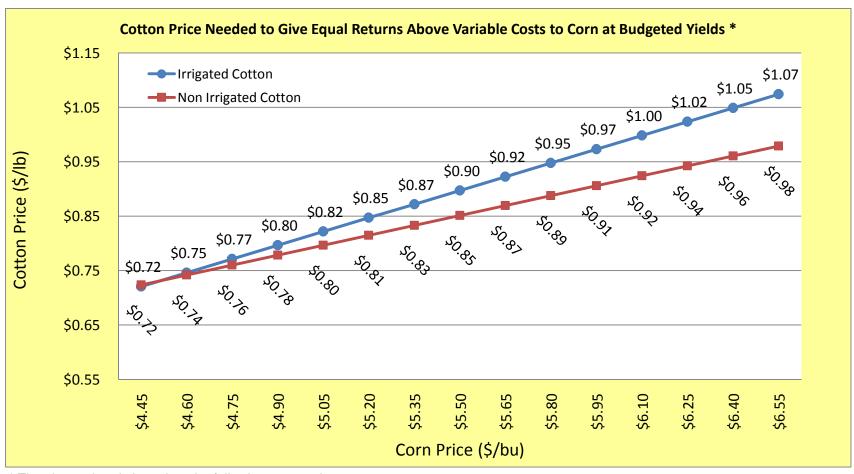
^{*} The above chart is based on the following assumptions:

- 1) Irrigated corn is compared to irrigated peanut and non-irrigated corn is compared to non-irrigated peanut.
- 2) Irrigated corn yield is 185 bu. and irrigated peanut yield is 4000 lbs.
- 3) Non-irrigated corn yield is 85 bu. and non-irrigated peanut yield is 2800 lbs.
- 4) Prices shown are those needed to cover budgeted operating expenses for strip tillage production listed in the crop comparison tool.



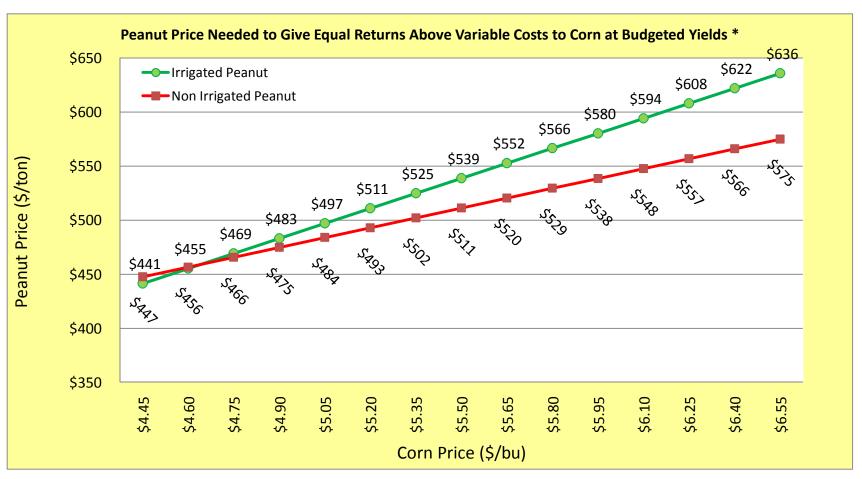
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- 1) Irrigated soybean is compared to irrigated peanut and non-irrigated soybean is compared to non-irrigated peanut.
- 2) Irrigated soybean yield is 55 bu. and irrigated peanut yield is 4000 lbs.
- 3) Non-irrigated soybean yield is 30 bu. and non-irrigated peanut yield is 2800 lbs.
- 4) Prices shown are those needed to cover budgeted operating expenses for strip tillage production listed in the crop comparison tool.



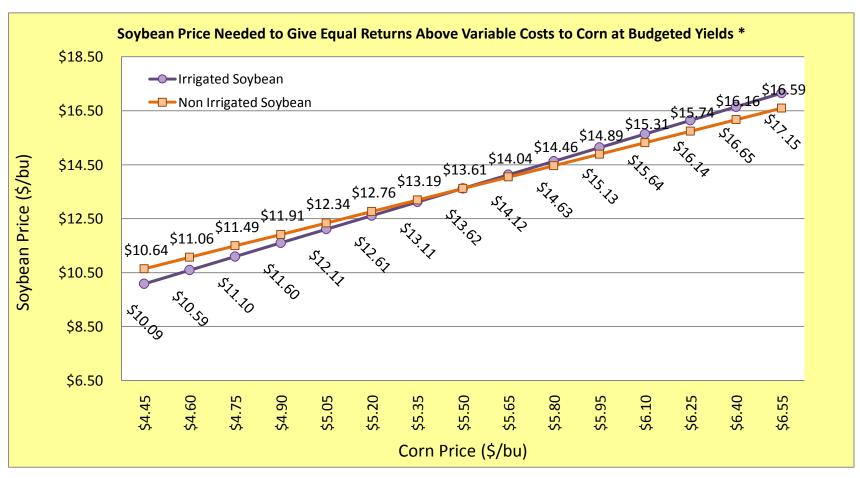
^{*} The above chart is based on the following assumptions:

- 1) Irrigated cotton is compared to irrigated corn and non-irrigated cotton is compared to non-irrigated corn.
- 2) Irrigated cotton yield is 1100 lbs. and irrigated corn yield is 185 bu.
- 3) Non-irrigated cotton yield is 700 lbs. and non-irrigated corn yield is 85 bu.
- 4) Prices shown are those needed to cover budgeted operating expenses for strip tillage production listed in the crop comparison tool.



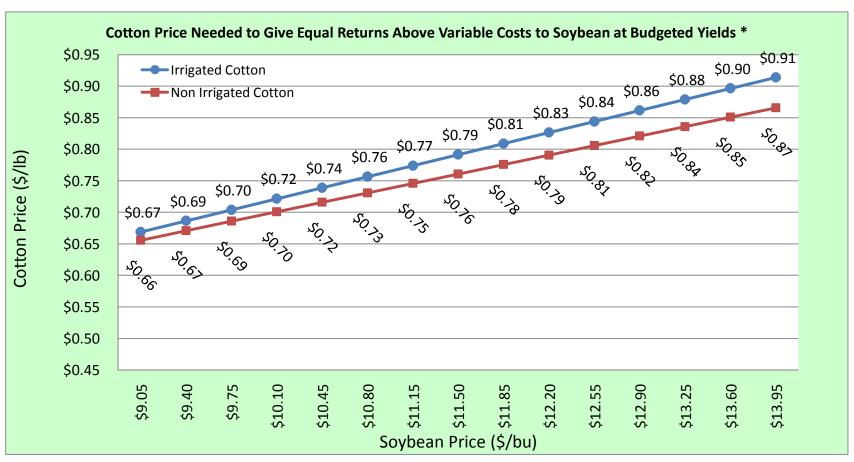
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- 1) Irrigated peanut is compared to irrigated corn and non-irrigated peanut is compared to non-irrigated corn.
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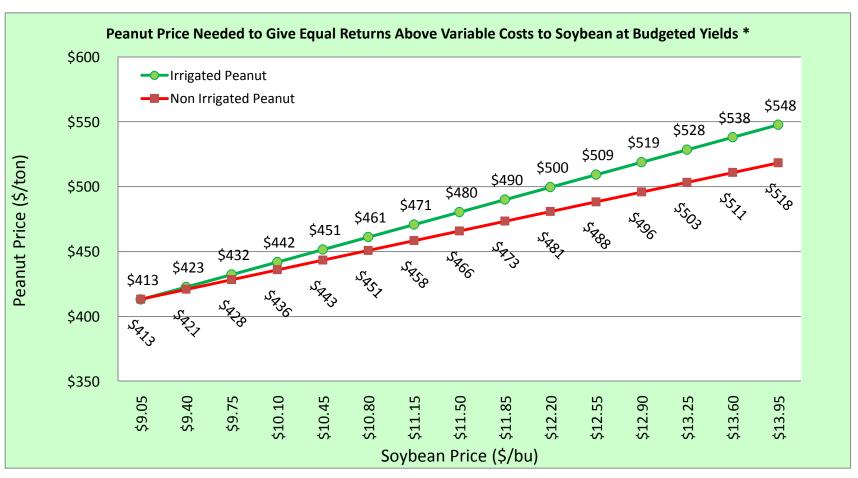
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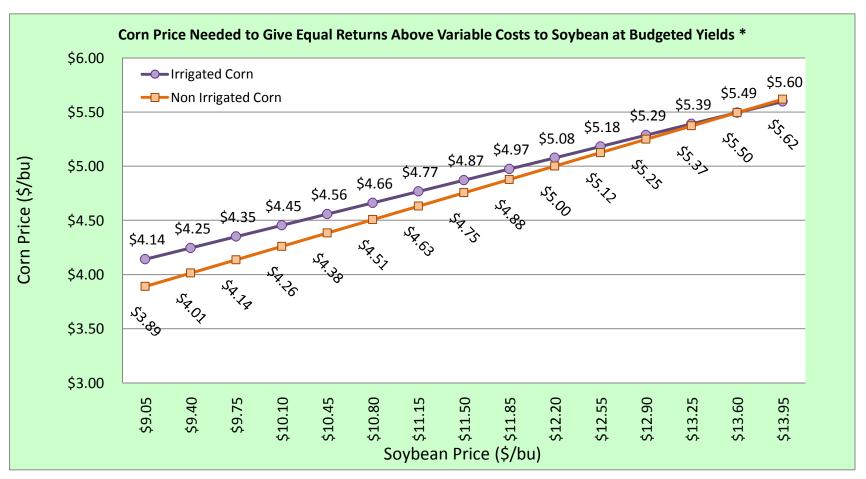
^{*} The above chart is based on the following assumptions:

- 1) Irrigated cotton is compared to irrigated soybean and non-irrigated cotton is compared to non-irrigated soybean.
- 2) Irrigated cotton yield is 1100 lbs. and irrigated soybean yield is 55 bu.
- 3) Non-irrigated cotton yield is 700 lbs. and non-irrigated soybean yield is 30 bu.
- 4) Prices shown are those needed to cover budgeted operating expenses for strip tillage production listed in the crop comparison tool.



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- 1) Irrigated peanut is compared to irrigated soybean and non-irrigated peanut is compared to non-irrigated soybean.
- 2) Irrigated peanut yield is 4000 lbs. and irrigated soybean yield is 55 bu.
- 3) Non-irrigated peanut yield is 2800 lbs. and non-irrigated soybean yield is 30 bu.
- 4) Prices shown are those needed to cover budgeted operating expenses for strip tillage production listed in the crop comparison tool.



^{*} The above chart is based on the following assumptions:

- 1) Irrigated corn is compared to irrigated soybean and non-irrigated corn is compared to non-irrigated soybean.
- 2) Irrigated corn yield is 185 bu. and irrigated soybean yield is 55 bu.
- 3) Non-irrigated corn yield is 85 bu. and non-irrigated soybean yield is 30 bu.
- 4) Prices shown are those needed to cover budgeted operating expenses for strip tillage production listed in the crop comparison tool.