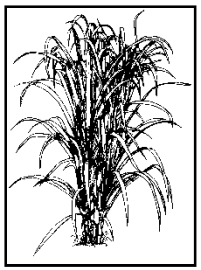
Alternative Fallow Programs: Efficacy and Economics

Jim Griffin and Mike Salassi

LSU AgCenter Research & Extension



Weed Problems in Sugarcane

Bermudagrass Control During the Fallow Period Directly Affects Weed Control in the Planted Sugarcane Crop …

2010 Sugarcane Fallow Bermudagrass Test - Sugar Research Station

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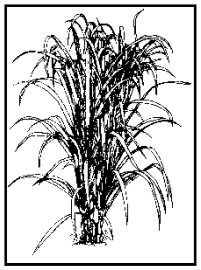
Sugarcane Fallow Bermudagrass Control Treatments		
Treatment number	**Field operation**	**Date performed**
1	**Destroy stubble (disk twice each date)**	**May 1 & 26**
	Bottom plow (10 -12 inches deep)	**May 27**
	Chisel plow	**June 18**
	Disk	**June 21**
	Bed up (2 operations)	**June 21 & 22**
	Roundup Original Max @ 46 oz/A	**July 12**
	Roundup Original Max @ 46 oz/A	**August 11**
2	**Destroy stubble (disk twice each date)**	**May 1 & 26**
	Chisel plow	**June 18**
	Disk	**June 21**
	Bed up (2 operations)	**June 21 & 22**
	Roundup Original Max @ 46 oz/A	**July 12**
	Roundup Original Max @ 46 oz/A	**August 11**
3	**Destroy stubble (disk twice each date)**	**May 1 & 26**
	Chisel plow	**June 18**
	Disk	**June 21**
	Bed up (2 operations)	**June 21 & 22**
	Re-hip beds	**July 12**
	Roundup Original Max @ 46 oz/A	**August 11**
4	**Destroy stubble (disk twice each date)**	**May 1 & 26**
	Chisel plow	**June 18**
	Disk	**June 21**
	Chisel plow	**July 16**
	Disk	**July 16**
	Bed up (2 operations)	**July 16**
	Roundup Original Max @ 46 oz/A	**August 11**

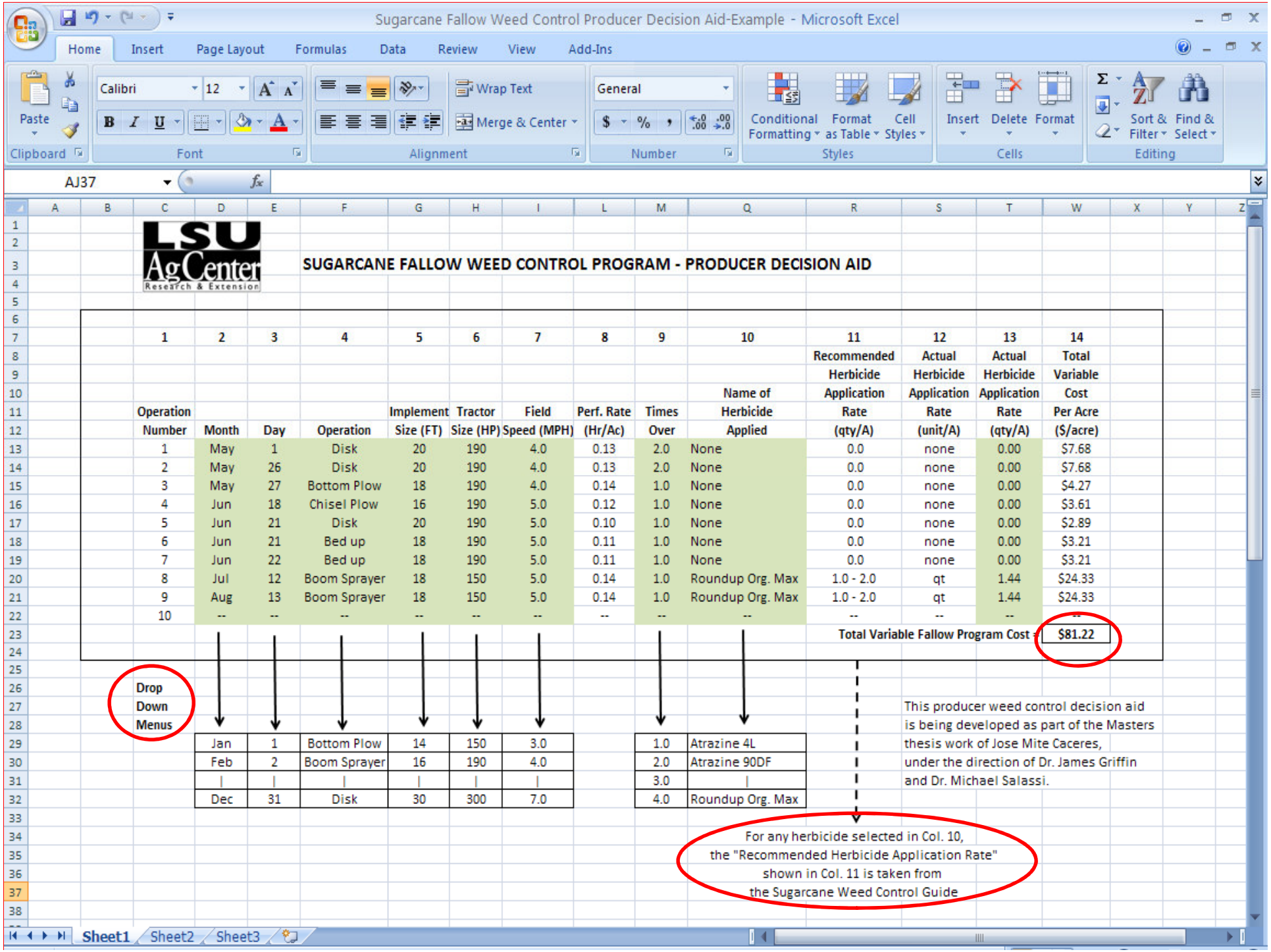
Deep Plowing/Bottom Plowing Programs



John Robert Farm

Bermudagrass Ground Cover with Fallow Treatments at St. Gabriel, 2010.

Treat-ment	Fallow operations								Ground Cover (%)			
	Destroy stubble 5/1; 5/26	Bottom plow 5/27	Chisel plow 6/18; disk 6/21	Bed-up 6/21	Round up 7/12	Re-hip beds 7/12	Chisel plow/ disk/ bed- up 7/16	Roundup 8/11	7/26	8/11	11/23	12/22
1	yes	yes	yes	yes	yes	no	no	yes	5	17	11	9
2	yes	no	yes	yes	yes	no	no	yes	4	28	16	11
3	yes	no	yes	yes	no	yes	no	yes	39	28	25	21
4	yes	no	yes	no	no	no	yes	yes	20	56	21	15
14 d after Rup; 14 d after re-hipping; 10 d after chisel plow, disk, bed-up											74 DAP	103 DAP
Just prior to 2nd glyphosate application; just prior to 1st glyphosate application												


Sugarcane Fallow Weed Control Producer Decision Aid-Example - Microsoft Excel
Home
Insert
Page Layout
Formulas
Data
Review
View
Add-Ins
Paste
Calibri
12
Wrap Text
General
Merge & Center
Conditional Formatting
Format as Table
Cell Styles
Insert
Delete
Format
Sort & Filter
Find & Select
Clipboard
Font
Alignment
Number
Styles
Cells
Editing
AJ37
LSU AgCenter
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SUGARCANE FALLOW WEED CONTROL PROGRAM - PRODUCER DECISION AID
1 2 3 4 5 6 7 8 9 10 11 12 13 14
Operation Number
Month
Day
Operation
Implement Size (FT)
Tractor Size (HP)
Field Speed (MPH)
Perf. Rate (Hr/Ac)
Times Over
Name of Herbicide Applied
Recommended Herbicide Application Rate (qty/A)
Actual Herbicide Application Rate (unit/A)
Actual Herbicide Application Rate (qty/A)
Total Variable Cost Per Acre ($/acre)
1 May 1 Disk 20 190 4.0 0.13 2.0 None 0.0 none 0.00 $7.68
2 May 26 Disk 20 190 4.0 0.13 2.0 None 0.0 none 0.00 $7.68
3 May 27 Bottom Plow 18 190 4.0 0.14 1.0 None 0.0 none 0.00 $4.27
4 Jun 18 Chisel Plow 16 190 5.0 0.12 1.0 None 0.0 none 0.00 $3.61
5 Jun 21 Disk 20 190 5.0 0.10 1.0 None 0.0 none 0.00 $2.89
6 Jun 21 Bed up 18 190 5.0 0.11 1.0 None 0.0 none 0.00 $3.21
7 Jun 22 Bed up 18 190 5.0 0.11 1.0 None 0.0 none 0.00 $3.21
8 Jul 12 Boom Sprayer 18 150 5.0 0.14 1.0 Roundup Org. Max 1.0 - 2.0 qt 1.44 $24.33
9 Aug 13 Boom Sprayer 18 150 5.0 0.14 1.0 Roundup Org. Max 1.0 - 2.0 qt 1.44 $24.33
10 -- -- -- -- -- -- -- -- -- -- -- -- --
Total Variable Fallow Program Cost = $81.22
Drop Down Menus
Jan 1 Bottom Plow 14 150 3.0
Feb 2 Boom Sprayer 16 190 4.0
Dec 31 Disk 30 300 7.0
1.0 Atrazine 4L
2.0 Atrazine 90DF
3.0
4.0 Roundup Org. Max
This producer weed control decision aid is being developed as part of the Masters thesis work of Jose Mite Caceres, under the direction of Dr. James Griffin and Dr. Michael Salassi.
For any herbicide selected in Col. 10, the "Recommended Herbicide Application Rate" shown in Col. 11 is taken from the Sugarcane Weed Control Guide
Sheet1
Sheet2
Sheet3

Herbicide Treatments for Fallowed Fields

Preemergence

- Atrazine/others
- Diuron/Direx/others
- DuPont K-4
- Eptam
- Permit/others
- Prowl/Prowl H_20/others
- Treflan/others

Postemergence

- Glyphosate products
- Atrazine/others
- Diuron/Direx/others
- DuPont K-4
- Aim
- Valor
- Envoke
- Metribuzin/Sencor/others
- Gramoxone Inteon/ Paraquat/others
- Permit
- Yukon
- 2,4-D
- Weedmaster/Brash/others

Sugarcane Breakout Session
Louisiana Agricultural Technology & Management Conference
Alexandria, Louisiana *Feb. 9-11, 2011*

Alternative Fallow Programs: *Efficacy and Economics*

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L.S.U. Agricultural Center, Baton Rouge, LA

Louisiana State University Agricultural Center
Louisiana Cooperative Extension Service / Louisiana Agricultural Experiment Station
www.lsuagcenter.com

Sugarcane Fallow Weed Control Program
Producer Decision Aid

- Excel spreadsheet-based producer decision aid
- Purpose:
  - Estimate the variable costs of currently used sugarcane fallow weed control programs
    - Variable costs – fuel, labor, herbicide
  - Evaluate impact on fallow costs of alternative tillage operations and/or herbicide choices and applications
- Can handle any combination of tillage/herbicide fallow programs
- Automatically provides recommended application rates for all herbicides listed for use on sugarcane fallow land in the LSU AgCenter Weed Management Guide

Sugarcane Fallow Weed Control Program

Example Fallow Program

SUGARCANE FALLOW WEED CONTROL PROGRAM - PRODUCER DECISION AID

Fuel Price ($/gal) = $2.75 | Labor Cost ($/hr) = $9.60

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Operation Number	Month	Day	Operation	Implement Size (FT)	Tractor Size (HP)	Field Speed (MPH)	Times Over	Estd. Fuel Use (gal/A)	Estd. Fuel Cost ($/A)	Estd. Labor Cost ($/A)	Name of Herbicide Applied	Recommended Herbicide Application Rate (qty/A)	Actual Herbicide Application Rate (unit/A)	Actual Herbicide Application Rate (qty/A)	Herbicide Material Cost Per Acre ($/acre)	Total Variable Cost Per Acre ($/acre)
1	May	1	Disk	20	190	4.0	2.0	2.2	$5.93	$2.72	--	--	--	0.00	$0.00	$8.65
2	May	26	Disk	20	190	4.0	2.0	2.2	$5.93	$2.72	--	--	--	0.00	$0.00	$8.65
3	May	27	Bottom Plow	18	190	4.0	1.0	1.2	$3.29	$1.51	--	--	--	0.00	$0.00	$4.81
4	Jun	18	Chisel Plow	16	190	5.0	1.0	1.0	$2.79	$1.28	--	--	--	0.00	$0.00	$4.07
5	Jun	21	Disk	20	190	5.0	1.0	0.9	$2.37	$1.09	--	--	--	0.00	$0.00	$3.46
6	Jun	21	Bed up	18	190	5.0	1.0	0.9	$2.48	$1.14	--	--	--	0.00	$0.00	$3.62
7	Jun	22	Bed up	18	190	5.0	1.0	0.9	$2.48	$1.14	--	--	--	0.00	$0.00	$3.62
8	Jul	12	Boom Sprayer	18	150	5.0	1.0	0.9	$2.56	$1.49	Roundup Orig Max 5.5L	0.7 - 1.4	Qt / Acre	1.40	$20.16	$24.21
9	Aug	10	Boom Sprayer	18	150	5.0	1.0	0.9	$2.56	$1.49	Roundup Orig Max 5.5L	0.7 - 1.4	Qt / Acre	1.40	$20.16	$24.21
10	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
11	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
12	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
13	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
14	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
15	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
16	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
17	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
18	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
19	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
20	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00

Total Variable Fallow Program Cost = $85.29

Sugarcane Fallow Weed Control Program
Fuel and Labor Costs

SUGARCANE FALLOW WEED CONTROL PROGRAM - PRODUCER DECISION AID

Fuel Price ($/gal) = **$2.75** Labor Cost ($/hr) = **$9.60**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
												Recommended	Actual	Actual	Herbicide	Total
								Estd.	Estd.	Estd.		Herbicide	Herbicide	Herbicide	Material	Variable
								Fuel	Fuel	Labor	Name of	Application	Application	Application	Cost	Cost
Operation				Implement	Tractor	Field	Times	Use	Cost	Cost	Herbicide	Rate	Rate	Rate	Per Acre	Per Acre
Number	Month	Day	Operation	Size (FT)	Size (HP)	Speed (MPH)	Over	(gal/A)	($/A)	($/A)	Applied	(qty/A)	(unit/A)	(qty/A)	($/acre)	($/acre)
1	May	1	Disk	20	190	4.0	2.0	2.2	$5.93	$2.72	--	--	--	0.00	$0.00	$8.65
2	May	26	Disk	20	190	4.0	2.0	2.2	$5.93	$2.72	--	--	--	0.00	$0.00	$8.65
3	May	27	Bottom Plow	18	190	4.0	1.0	1.2	$3.29	$1.51	--	--	--	0.00	$0.00	$4.81
4	Jun	18	Chisel Plow	16	190	5.0	1.0	1.0	$2.79	$1.28	--	--	--	0.00	$0.00	$4.07
5	Jun	21	Disk	20	190	5.0	1.0	0.9	$2.37	$1.09	--	--	--	0.00	$0.00	$3.46
6	Jun	21	Bed up	18	190	5.0	1.0	0.9	$2.48	$1.14	--	--	--	0.00	$0.00	$3.62
7	Jun	22	Bed up	18	190	5.0	1.0	0.9	$2.48	$1.14	--	--	--	0.00	$0.00	$3.62
8	Jul	12	Boom Sprayer	18	150	5.0	1.0	0.9	$2.56	$1.49	Roundup Orig Max 5.5L	0.7 - 1.4	Qt / Acre	1.40	$20.16	$24.21
9	Aug	10	Boom Sprayer	18	150	5.0	1.0	0.9	$2.56	$1.49	Roundup Orig Max 5.5L	0.7 - 1.4	Qt / Acre	1.40	$20.16	$24.21
10	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
11	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
12	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
13	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
14	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
15	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
16	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
17	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
18	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
19	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
20	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00

Total Variable Fallow Program Cost = **$85.29**

Fuel price ($/gal) & labor cost ($/hr) directly entered by user

Sugarcane Fallow Weed Control Program

Data for Passes Over the Field

SUGARCANE FALLOW WEED CONTROL PROGRAM - PRODUCER DEC

	1	2	3	4	5	6	7	8	9	10	11
	Fuel Price ($/gal) =		$2.75		Labor Cost ($/hr) =		$9.60		Estd. Fuel Use (gal/A)	Estd. Fuel Cost ($/A)	Estd. Labor Cost ($/A)
	Operation Number	Month	Day	Operation	Implement Size (FT)	Tractor Size (HP)	Field Speed (MPH)	Times Over			
1	May	1	Disk	20	190	4.0	2.0	2.2	$5.93	$2.72
2	May	26	- -	20	190	4.0	2.0	2.2	$5.93	$2.72
3	May	27	Bed up	18	190	4.0	1.0	1.2	$3.29	$1.51
4	Jun	18	Boom Sprayer	16	190	5.0	1.0	1.0	$2.79	$1.28
5	Jun	21	Bottom Plow	20	190	5.0	1.0	0.9	$2.37	$1.09
6	Jun	21	Chisel Plow	18	190	5.0	1.0	0.9	$2.48	$1.14
7	Jun	22	Disk	18	190	5.0	1.0	0.9	$2.48	$1.14
8	Jul	12	Hipper	18	150	5.0	1.0	0.9	$2.56	$1.49
9	Aug	10	Boom Sprayer	18	150	5.0	1.0	0.9	$2.56	$1.49
10	- -	- -	- -	- -	- -	- -	0.0	0.0	$0.00	$0.00

Drop down menus for passes over field

Sugarcane Fallow Weed Control Program
Herbicide Selection

	O	P	Q	R	S	T	V	W	X
1									
2									
3	PRODUCER DECISION AID								
4									
5									
6									
7	10	11	12	13	14	15	16	17	
8				Recommended	Actual	Actual	Herbicide	Total	
9	Estd.	Estd.		Herbicide	Herbicide	Herbicide	Material	Variable	
10	Fuel	Labor	Name of	Application	Application	Application	Cost	Cost	
11	Cost	Cost	Herbicide	Rate	Rate	Rate	Per Acre	Per Acre	
12	($/A)	($/A)	Applied	(qty/A)	(unit/A)	(qty/A)	($/acre)	($/acre)	
13	$5.93	$2.72	- -	- -	- -	0.00	$0.00	$8.65	
14	$5.93	$2.72	- -	- -	- -	0.00	$0.00	$8.65	
15	$3.29	$1.51	- -	- -	- -	0.00	$0.00	$4.81	
16	$2.79	$1.28	- -	- -	- -	0.00	$0.00	$4.07	
17	$2.37	$1.09	- -	- -	- -	0.00	$0.00	$3.46	
18	$2.48	$1.14	- -	- -	- -	0.00	$0.00	$3.62	
19	$2.48	$1.14	- -	- -	- -	0.00	$0.00	$3.62	
20	$2.56	$1.49	Roundup Orig Max 5.5L	0.7 - 1.4	Qt / Acre	1.40	$20.16	$24.21	
21	$2.56	$1.49	Roundup Orig Max 5.5L	0.7 - 1.4	Qt / Acre	1.40	$20.16	$24.21	
22	$0.00	$0.00	Roundup Original 4L	- -	- -	0.00	$0.00	$0.00	
23	$0.00	$0.00	Roundup Power Max 5.5L	- -	- -	0.00	$0.00	$0.00	
24	$0.00	$0.00	Roundup WeatherMax 5.5L	- -	- -	0.00	$0.00	$0.00	
25	$0.00	$0.00	Sencor DF	- -	- -	0.00	$0.00	$0.00	
			Valor SX 51WG						
			Weedmaster						
			Yukon 67.5 WDG						

Drop down menu herbicides applied

Sugarcane Fallow Weed Control Program

Drop Down Menu Items

Month	Day	Operation	Implement Size (FT)	Tractor Size (HP)	Field Speed (MPH)	Times Over
--	--	--	--	--	--	0.0
Jan	1	Bed up	14	75	1.0	0.5
Feb	2	Boom Sprayer	16	100	2.0	1.0
Mar	3	Bottom Plow	18	110	3.0	1.5
Apr	4	Chisel Plow	20	130	4.0	2.0
May	5	Disk	25	140	5.0	
Jun	6	Hipper	30	150	6.0	
Jul	7			160		
Aug	8			170		
Sep	9			180		
Oct	10			190		
Nov	11			200		
Dec	12			210		
	13			220		
	14			230		
	15			240		
	16			250		
	17			260		
	18			270		
	19			280		
	20			290		
	21			300		
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

Vlookup Table for Herbicides

--	--	--	--
2,4-D Amine	1.0 - 1.5	Qt / Acre	$3.38
AAtrex 4L	2.0 - 4.0	Qt / Acre	$3.88
Aim 2EC	1.0 - 2.0	Oz / Acre	$0.00
Atrazine 4L	2.0 - 4.0	Qt / Acre	$3.88
Atrazine 90DF	2.22 - 4.44	Lb / Acre	$3.20
Direx 4L	2.4 - 3.0	Qt / Acre	$4.38
Direx 80 DF	3.0 - 3.75	Lb / Acre	$3.50
DuPont K-4 60 DG	3.75 - 4.0	Lb / Acre	$5.90
Envoke	0.15 - 0.20	Oz / Acre	$80.00
Eptam 7-E	3.5 - 7.0	Pt / Acre	$5.00
Generic Glyphosate	1.0 - 2.0	Qt / Acre	$6.00
Gramonxone Inteon	3.0	Pt / Acre	$1.70
Halomax 75DF	0.67 - 1.33	Oz / Acre	$2.50
Karmex 80 DF	3.0 - 3.75	Lb / Acre	$3.50
Permit 75DF	0.67 - 1.33	Oz / Acre	$2.75
Prowl 3.3EC	3.0	Qt / Acre	$5.50
Prowl H2O 3.8CS	2.6	Qt / Acre	$8.00
Roundup Orig Max 5.5L	0.7 - 1.4	Qt / Acre	$14.40
Roundup Original 4L	1.0 - 2.0	Qt / Acre	$0.00
Roundup Power Max 5.5L	0.7 - 1.4	Qt / Acre	$10.99
Roundup WeatherMax 5.5L	0.7 - 1.4	Qt / Acre	$7.45
Sencor DF	1.0	Lb / Acre	$9.75
Valor SX 51WG	3.0 - 4.0	Oz / Acre	$0.00
Weedmaster	1.5	Pt / Acre	$2.31
Yukon 67.5 WDG	4.0 - 8.0	Oz / Acre	$0.00

Sugarcane Fallow Weed Control Program
"Current" Fallow Program

SUGARCANE FALLOW WEED CONTROL PROGRAM - PRODUCER DECISION AID

Fuel Price ($/gal) = $2.75 | Labor Cost ($/hr) = $9.60

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
												Recommended	Actual	Actual	Herbicide	Total
								Estd.	Estd.	Estd.		Herbicide	Herbicide	Herbicide	Material	Variable
								Fuel	Fuel	Labor	Name of	Application	Application	Application	Cost	Cost
Operation				Implement	Tractor	Field	Times	Use	Cost	Cost	Herbicide	Rate	Rate	Rate	Per Acre	Per Acre
Number	Month	Day	Operation	Size (FT)	Size (HP)	Speed (MPH)	Over	(gal/A)	($/A)	($/A)	Applied	(qty/A)	(unit/A)	(qty/A)	($/acre)	($/acre)
1	May	1	Disk	20	190	4.0	2.0	2.2	$5.93	$2.72	--	--	--	0.00	$0.00	$8.65
2	May	26	Disk	20	190	4.0	2.0	2.2	$5.93	$2.72	--	--	--	0.00	$0.00	$8.65
3	May	27	Bottom Plow	18	190	4.0	1.0	1.2	$3.29	$1.51	--	--	--	0.00	$0.00	$4.81
4	Jun	18	Chisel Plow	16	190	5.0	1.0	1.0	$2.79	$1.28	--	--	--	0.00	$0.00	$4.07
5	Jun	21	Disk	20	190	5.0	1.0	0.9	$2.37	$1.09	--	--	--	0.00	$0.00	$3.46
6	Jun	21	Bed up	18	190	5.0	1.0	0.9	$2.48	$1.14	--	--	--	0.00	$0.00	$3.62
7	Jun	22	Bed up	18	190	5.0	1.0	0.9	$2.48	$1.14	--	--	--	0.00	$0.00	$3.62
8	Jul	12	Boom Sprayer	18	150	5.0	1.0	0.9	$2.56	$1.49	Roundup Orig Max 5.5L	0.7 - 1.4	Qt / Acre	1.40	$20.16	$24.21
9	Aug	10	Boom Sprayer	18	150	5.0	1.0	0.9	$2.56	$1.49	Roundup Orig Max 5.5L	0.7 - 1.4	Qt / Acre	1.40	$20.16	$24.21
10	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
11	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
12	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
13	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
14	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
15	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
16	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
17	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
18	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
19	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
20	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00

Total Variable Fallow Program Cost = $85.29

Sugarcane Fallow Weed Control Program
"Alternative" Fallow Program

SUGARCANE FALLOW WEED CONTROL PROGRAM - PRODUCER DECISION AID

Fuel Price ($/gal) = $2.75 | Labor Cost ($/hr) = $9.60

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
								Estd.	Estd.	Estd.		Recommended Herbicide	Actual Herbicide	Actual Herbicide	Herbicide Material Cost	Total Variable Cost
Operation Number	Month	Day	Operation	Implement Size (FT)	Tractor Size (HP)	Field Speed (MPH)	Times Over	Fuel Use (gal/A)	Fuel Cost ($/A)	Labor Cost ($/A)	Name of Herbicide Applied	Application Rate (qty/A)	Application Rate (unit/A)	Application Rate (qty/A)	Per Acre ($/acre)	Per Acre ($/acre)
1	May	1	Disk	20	190	4.0	2.0	2.2	$5.93	$2.72	--	--	--	0.00	$0.00	$8.65
2	May	26	Disk	20	190	4.0	2.0	2.2	$5.93	$2.72	--	--	--	0.00	$0.00	$8.65
3	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
4	Jun	18	Chisel Plow	16	190	5.0	1.0	1.0	$2.79	$1.28	--	--	--	0.00	$0.00	$4.07
5	Jun	21	Disk	20	190	5.0	1.0	0.9	$2.37	$1.09	--	--	--	0.00	$0.00	$3.46
6	Jun	21	Bed up	18	190	5.0	1.0	0.9	$2.48	$1.14	--	--	--	0.00	$0.00	$3.62
7	Jun	22	Bed up	18	190	5.0	1.0	0.9	$2.48	$1.14	--	--	--	0.00	$0.00	$3.62
8	Jul	12	Boom Sprayer	18	150	5.0	1.0	0.9	$2.56	$1.49	Roundup Orig Max 5.5L	0.7 - 1.4	Qt / Acre	1.40	$20.16	$24.21
9	Jul	12	--	--	--	--	0.0	0.0	$0.00	$0.00	Permit 75DF	0.67 - 1.33	Oz / Acre	1.00	$2.75	$2.75
10	Aug	10	Boom Sprayer	18	150	5.0	1.0	0.9	$2.56	$1.49	Roundup Orig Max 5.5L	0.7 - 1.4	Qt / Acre	1.40	$20.16	$24.21
11	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
12	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
13	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
14	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
15	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
16	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
17	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
18	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
19	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00
20	--	--	--	--	--	--	0.0	0.0	$0.00	$0.00	--	--	--	0.00	$0.00	$0.00

Total Variable Fallow Program Cost = $83.23

Economics of Soybean Production in Fallowed Fields

Meetings will be held to seek input from county agents and consultants and to provide training on use of the Producer Decision Aid Program

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Questions?