



**DIVISION OF AGRICULTURE**  
**RESEARCH & EXTENSION**

*University of Arkansas System*

**2020**  
**Cotton Research**  
**Verification/Sustainability Program**  
  
*Field Operations*



**Cotton**  
**Incorporated**

*Arkansas*

**ROW CROP VERIFICATION**



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**Table 1. General Information for fields enrolled in the 2020 Cotton Research Verification/Sustainability Program in Clay County, AR.**

Location: Piggott, AR	Previous Cash Crop: Cotton	Cash Crop Planting Date: 5/2/2020
GPS: 36.3811, -90.1305	This Year's Cash Crop: Cotton	Row Width: 38 inches
Grower: Terry Pollard	Variety: DP 1646 B2XF	Total Rainfall: 15.62 inches
County Agent: Allison Howell	Acres: No-till Cover 38; FSNC 35	Harvest Date: No-till Cover – 10/18/2020, FSNC – 10/22/2020

**Table 2. Field Operations for the COVER CROP side of the field enrolled in the 2020 Cotton Research Verification/Sustainability Program in Clay County, AR.**

Irrigation Type: Furrow		Total Irrigation Applied: 8.31 inches		Number of Times: 8			
Irrigation Power Source: Diesel				Cover Crop Treatment Yield: 1542 Lint lb/A			
Date	Operation	Method/Implement Used	PTO (HP)	Times Over	Trade Name or Material	Material Applied	
						Units (pts, lbs, oz, etc.)	Product Rate per Acre
	Shredded Stalks	JD 8320	215	1			
11/18/2019	Broadcasted Cover Crops	JD 8310	205	1	Elbon Cereal Rye	lbs.	56
3/9/2020	Do-all to knock top off beds	JD 8310	205	1			
5/2/2020	Herbicide	JD 4730 90' Boom	245	1	Roundup Powermax	oz.	30
5/2/2020	Planter	JD 8320 12 Row Planter	8/2/1900	1/1/1900	DP 1646 B2XF	seed/A	7/10/2035
	Herbicide				Cotoran	oz.	25
	Insecticide				Asana	gal.	1
6/7/2020	Herbicide	JD 4730 90' Boom	245	1	Roundup Powermax	oz.	30
	Herbicide				Liberty	oz.	30
	Ele-Max Nutrient Concentrate				Helena ENC	pt.	1
6/8/2020	Fertilizer	JD 8310	205	1	32% N	gal.	28.57
	Fertilizer	JD 8310	205	1	Custom Rate N-P-K-S-B		0-60-100-0-0
6/29/2020	Insecticide PGR	JD 4730 90' Boom	245	1	Bidrin	oz.	8
					Mepex	oz.	12
7/6/2020	Insecticide	JD 4730 90' Boom	245	1	Transform	oz.	2
7/15/2020	Insecticide	JD 4730 90' Boom	245	1	Acephate	lb.	0.75
	Insecticide				Diamond	oz.	6
	PGR				Mepex	oz.	12
7/27/2020	Insecticide	JD 4730 90' Boom	245	1	Acephate	lb.	1
	Insecticide				Bifitherin	oz.	6
	PGR				Mepex	oz.	24
9/23/2020	Harvest Aid	JD 4730 90' Boom	245	1	Dropp	oz.	4.2
	Harvest Aid				Def	oz.	5
	Harvest Aid				Ethephon	oz.	16
10/2/2020	Harvest Aid	JD 4730 90' Boom	245	1	Finish	oz.	8
	Harvest Aid				Folex	oz.	3.2
	Harvest Aid				Ethephon	oz.	40
10/18/2020	Harvest	JD Round Module	560	1	Include Plastic Wrap		

**Table 3. Field Operations for the NON-COVER CROP side of the field enrolled in the 2020 Cotton Research Verification/ Sustainability Program in Clay County, AR.**

Irrigation Type: Furrow		Total Irrigation Applied: 8.31 inches		Number of Times: 8			
Irrigation Power Source: Diesel		Cover Crop Treatment Yield: 1547 Lint lb/A					
					<b>Material Applied</b>		
<b>Date</b>	<b>Operation</b>	<b>Method/Implement Used</b>	<b>PTO (HP)</b>	<b>Times Over</b>	<b>Trade Name or Material</b>	<b>Units (pts, lbs, oz, etc.)</b>	<b>Product Rate per Acre</b>
	Shredded Stalks	JD 8320	215	1			
5/2/2020	Planter	JD 8320 12 Row Planter	215	1	DP 1646 B2XF	seed/A	49500
	Herbicide				Cotoran	oz.	25
	Insecticide				Asana	gal.	1
6/7/2020	Herbicide	JD 4730 90' Boom	245	1	Roundup Powermax	oz.	30
	Herbicide				Liberty	oz.	30
	Ele-Max Nutrient Concentrate			Helena ENC	pt.	1	
6/8/2020	Fertilizer	JD 8310	205	1	32% N	gal.	28.57
6/8/2020	Fertilizer	JD 8310	205	1	Custom Rate N-P-K-S-B		0-60-100-0-0
6/14/2020	Plowed Furrows			1			
6/29/2020	Insecticide PGR	JD 4730 90' Boom	245	1	Bidrin	oz.	8
					Mepex	oz.	12
7/6/2020	Insecticide	JD 4730 90' Boom	245	1	Transform	oz.	2
7/15/2020	Insecticide	JD 4730 90' Boom	245	1	Acephate	lb.	0.75
	Insecticide PGR				Diamond	oz.	6
					Mepex	oz.	12
7/27/2020	Insecticide	JD 4730 90' Boom	245	1	Acephate	lb.	1
	Insecticide PGR				Bifitherin	oz.	6
					Mepex	oz.	24
9/23/2020	Harvest Aid	JD 4730 90' Boom	245	1	Dropp	oz.	4.2
	Harvest Aid				Def	oz.	5
	Harvest Aid				Ethephon	oz.	16
10/2/2020	Harvest Aid	JD 4730 90' Boom	245	1	Finish	oz.	8
	Harvest Aid				Folex	oz.	3.2
	Harvest Aid				Ethephon	oz.	40
10/18/2020	Harvest	JD Round Module	560	1	Include Plastic Wrap		

**Table 4. General Information for fields enrolled in the 2020 Cotton Research Verification/Sustainability Program in Desha County, AR – East Weaver.**

Location: Tillar, AR	Previous Cash Crop: Cotton	Cash Crop Planting Date: 5/1/2020
GPS: 33.8227, -91.3326	This Year's Cash Crop: Cotton	Row Width: 38 inches
Grower: Wes Kirkpatrick	Variety: ST 4550 GLTP	Total Rainfall: 20.39 inches
County Agent: John David Farabough	Acres: No-till Cover 20; FSNC 20	Harvest Date: 10/22/2020

**Table 5. Field Operations for the COVER CROP side of the field enrolled in the 2020 Cotton Research Verification/Sustainability Program in Desha County, AR – East Weaver Field.**

Irrigation Type: Furrow	Total Irrigation Applied: 5.70 inches	Number of Times: 3
Irrigation Power Source: Diesel		Cover Crop Treatment Yield: 1288 Lint lb/A

Date	Operation	Method/Implement Used	PTO (HP)	Times Over	Material Applied		
					Trade Name or Material	Units (pts, lbs, oz, etc.)	Product Rate per Acre
10/23/2019	Shredded Stalks	JD 8320 w/ 8 Row Flail Mower	215	1			
10/27/2019	Broadcasted Cover Crop	JD 8320	215	1	Elbon Cereal Rye	lbs.	56
5/1/2020	Planter	JD 8270R 12 Row	225	1	ST 4550 GLTP	Seed/A	40000
5/1/2020	Herbicide	International 2240 -90' Boom	165	1	Roundup	qt.	1
	Insecticide				Ammo	oz.	5
6/15/2020	Insecticide	Airplane		1	Centric	oz.	2
	Insecticide				Diamond	oz.	6
	PGR				Pix	oz.	10
6/16/2020	Fertilizer	JD 8270R, 13 Rows	225	1	Custom Rate N-P-K-S-B		28.5-46-90-12-1
6/17/2020	Fertilizer	JD 8320		1	32% UAN	gal.	22
6/23/2020	Herbicide	International 2240 -90' Boom	165	1	Liberty	qt.	1
	Herbicide				Roundup	qt.	1
	Herbicide				Outlook	oz.	12.8
6/28/2020	Insecticide	Airplane		1	Diamond	oz.	6
	Insecticide				Centric	oz.	1.5
	PGR				Pix	oz.	16
7/23/2020	Insecticide	Airplane		1	Transform	oz.	2
	Surfactant				Surfactant	oz.	3.2
8/11/2020	Insecticide	Airplane		1	Bifenthrin	oz.	6.4
	Insecticide				Acephate	lb.	0.75
	Surfactant				Surfactant	oz.	3.2
9/15/2020	Harvest Aid	Airplane		1	Clean Pik	oz.	2.1
	Harvest Aid				Super Boll	oz.	5.3
	Harvest Aid				Folex	oz.	6.4
9/24/2020	Harvest Aid	Airplane		1	Aim	oz.	1
	Harvest Aid				Super Boll	qt.	1
	Crop Oil				Crop Oil	oz.	12.8
10/22/2020	Harvest	JD Round Module	560	1	Include Plastic Wrap		

**Table 6. Field Operations for the NON-COVER CROP side of the field enrolled in the 2020 Cotton Research Verification/ Sustainability Program in Desha County, AR – East Weaver Field.**

Irrigation Type: Furrow		Total Irrigation Applied: 5.25 inches		Number of Times: 3			
Irrigation Power Source: Diesel		Cover Crop Treatment Yield: 1328 Lint lb/A					
					<b>Material Applied</b>		
<b>Date</b>	<b>Operation</b>	<b>Method/Implement Used</b>	<b>PTO (HP)</b>	<b>Times Over</b>	<b>Trade Name or Material</b>	<b>Units (pts, lbs, oz, etc.)</b>	<b>Product Rate per Acre</b>
10/23/2019	Shredded Stalks	JD 8320 w/8 Row Flail Mower	215	1			
3/2/2020	Bedded Rows	JD 8330, 12 Row	225	1			
3/3/2020	Herbicide	JD 4630 Sprayer 80' Boom	165	1	Dicamba	oz.	8
	Herbicide				Valor	oz.	2
	Herbicide				First Shot	oz.	0.5
5/1/2020	Planter	JD 8270R 12 Row	225	1	ST 4550 GLTP	Seed/A	40000
6/7/2020	Plowed Furrows	JD 8270	225	1			
6/12/2020	Herbicide	Airplane		1	Liberty	oz.	40
6/15/2020	Insecticide	Airplane		1	Centric	oz.	2
	Insecticide				Diamond	oz.	6
	PGR				Pix	oz.	10
6/16/2020	Fertilizer	JD 8270 (13 Row)	225	1	Custom Rate: N-P-K-S-B		28.5-46-90-12-1
6/17/2020	Fertilizer	JD 8320	215	1	32% UAN	gal.	22
6/23/2020	Herbicide	International 2240 90' Boom	165	1	Liberty	qt.	1
	Herbicide				Roundup	qt.	1
	Herbicide				Outlook	oz.	12.8
6/28/2020	Insecticide	Airplane		1	Diamond	oz.	6
	Insecticide				Centric	oz.	1.5
	PGR				Pix	oz.	16
7/23/2020	Insecticide	Airplane		1	Transform	oz.	2
	Surfactant				Surfactant	oz.	3.2
8/11/2020	Insecticide	Airplane		1	Bifenthrin	oz.	6.4
	Insecticide				Acephate	lb.	0.75
	Surfactant				Surfactant	oz.	3.2
9/15/2020	Harvest Aid	Airplane		1	Clean Pik	oz.	2.1
	Harvest Aid				Super Boll	oz.	5.3
	Harvest Aid				Folex	oz.	6.4
9/24/2020	Harvest Aid	Airplane		1	Aim	oz.	1
	Harvest Aid				Super Boll	qt.	1
	Crop Oil				Crop Oil	oz.	12.8
10/22/2020	Harvest	JD Round Module	560	1	Include Plastic Wrap		

**Table 7. General Information for fields enrolled in the 2020 Cotton Research Verification/Sustainability Program in Desha County, AR – Shop Field.**

Location: Tillar, AR	Previous Cash Crop: Cotton	Cash Crop Planting Date: 5/1/2020
GPS: 33.8198, -91.3407	This Year's Cash Crop: Cotton	Row Width: 38 inches
Grower: Wes Kirkpatrick	Variety: ST 4550 GLTP	Total Rainfall: 20.39 inches
County Agent: John David Farabough	Acres: No-till Cover 11.5; FSNC 11.5	Harvest Date: 10/22/2020

**Table 8. Field Operations for the COVER CROP side of the field enrolled in the 2020 Cotton Research Verification/Sustainability Program in Desha County, AR – Shop Field.**

Irrigation Type: Furrow		Total Irrigation Applied: 5.78 inches		Number of Times: 3			
Irrigation Power Source: Diesel				Cover Crop Treatment Yield: 1266 Lint lb/A			
Material Applied							
Date	Operation	Method/Implement Used	PTO (HP)	Times Over	Trade Name or Material	Units (pts, lbs, oz, etc.)	Product Rate per Acre
10/23/2019	Shredded Stalks	JD 8320 w/8 Row Flail Mower	215	1			
10/27/2019	Broadcasted Cover Crops	JD 8320	215	1	Elbon Cereal Rye	lbs.	56
5/1/2020	Planter	JD 8270R 12 Row	225	1	ST 4550 GLTP	seed/A	40000
	Herbicide	International 2240 90' Boom	165	1	Roundup	qt.	1
	Insecticide				Ammo	oz.	5
6/15/2020	Insecticide	Airplane		1	Centric	oz.	2
	Insecticide				Diamond	oz.	6
	PGR				Pix	oz.	10
6/16/2020	Fertilizer	JD 8270R, 13 Rows	225	1	Custom Rate N-P-K-S-B		28.5-46-90-12-1
6/17/2020	Fertilizer	JD 8320	215	1	32% UAN	gal.	22
6/23/2020	Herbicide	International 2240 90' Boom	165	1	Liberty	qt.	1
	Herbicide				Roundup	qt.	1
	Herbicide				Outlook	oz.	12.8
6/28/2020	Insecticide	Airplane		1	Diamond	oz.	6
	Insecticide				Centric	oz.	1.5
	PGR				Pix	oz.	16
7/22/2020	Insecticide	Airplane		1	Transform	oz.	2
	Surfactant				Surfactant	oz.	3.2
8/11/2020	Insecticide	Airplane		1	Bifenthrin	oz.	6.4
	Insecticide				Acephate	lb.	0.75
	Surfactant				Surfactant	oz.	3.2
9/15/2020	Harvest Aid	Airplane		1	Clean Pik	oz.	2.1
	Harvest Aid				Super Boll	oz.	5.3
	Harvest Aid				Folex	oz.	6.4
9/24/2020	Harvest Aid	Airplane		1	Aim	oz.	1
	Harvest Aid				Super Boll	qt.	1
	Crop Oil				Crop Oil	oz.	12.8
10/22/2020	Harvest	JD Round Module	560	1	Include Plastic Wrap		

**Table 9. Field Operations for the NON-COVER CROP side of the field enrolled in the 2020 Cotton Research Verification/ Sustainability Program in Desha County, AR – Shop Field.**

Irrigation Type: Furrow		Total Irrigation Applied: 5.69 inches		Number of Times: 3			
Irrigation Power Source: Diesel						Cover Crop Treatment Yield: 1441 Lint lb/A	
					<b>Material Applied</b>		
<b>Date</b>	<b>Operation</b>	<b>Method/Implement Used</b>	<b>PTO (HP)</b>	<b>Times Over</b>	<b>Trade Name or Material</b>	<b>Units (pts, lbs, oz, etc.)</b>	<b>Product Rate per Acre</b>
10/23/2019	Shredded Stalks	JD 8320 w/8 Row Flail Mower	215	1			
3/2/2020	Bedded Rows	JD 8330, 12 Row	225	1			
3/3/2020	Herbicide	JD 4630 Sprayer 80' Boom	165	1	Dicamba	oz.	8
	Herbicide				Valor	oz.	2
	Herbicide				First Shot	oz.	0.5
5/1/2020	Planter	JD 8270R 12 Row	225	1	ST 4550 GLTP	seed/A	40000
6/7/2020	Plowed Furrows	JD 8270R12 Row	225	1			
6/12/2020	Herbicide	Airplane		1	Liberty	oz.	40
6/15/2020	Insecticide	Airplane		1	Centric	oz.	2
	Insecticide				Diamond	oz.	6
	PGR				Pix	oz.	10
6/16/2020	Fertilizer	JD 8270, 13 Rows	225	1	Custom Rate N-P-K-S-B		28.5-46-90-12-1
6/17/2020	Fertilizer	JD 8320	215	1	32% UAN	gal.	22
6/23/2020	Herbicide	International 2240 90' Boom	165	1	Liberty	qt.	1
	Herbicide				Roundup	qt.	1
	Herbicide				Outlook	oz.	12.8
6/28/2020	Insecticide	Airplane		1	Diamond	oz.	6
	Insecticide				Centric	oz.	1.5
	PGR				Pix	oz.	16
7/22/2020	Insecticide	Airplane		1	Transform	oz.	2
	Surfactant				Surfactant	oz.	3.2
8/11/2020	Insecticide	Airplane		1	Bifenthrin	oz.	6.4
	Insecticide				Acephate	lb.	0.75
	Surfactant				Surfactant	oz.	3.2
9/15/2020	Harvest Aid	Airplane		1	Clean Pik	oz.	2.1
	Harvest Aid				Super Boll	oz.	5.3
	Harvest Aid				Folex	oz.	6.4
9/24/2020	Harvest Aid	Airplane		1	Aim	oz.	1
	Harvest Aid				Super Boll	qt.	1
	Crop Oil				Crop Oil	oz.	12.8
10/22/2020	Harvest	JD Round Module	560	1	Include Plastic Wrap		



**Table 10. General Information for fields enrolled in the 2020 Cotton Research Verification/Sustainability Program in St. Francis County, AR.**

Location: Forrest City, AR	Previous Cash Crop: Cotton	Cash Crop Planting Date: 5/21/2020
GPS: 34.9305, -90.8175	This Year's Cash Crop: Cotton	Row Width: 38 inches
Grower: Joe Whittenton	Variety: CP 9608 B3XF	Total Rainfall: 22.45 inches
County Agent: Chase Tucker	Acres: No-till Cover 30; FSNC 26	Harvest Date: 11/7/2020

**Table 11. Field Operations for the COVER CROP side of the field enrolled in the 2020 Cotton Research Verification/Sustainability Program in St. Francis County, AR.**

Irrigation Type: Pivot		Total Irrigation Applied: 4.5 inches		Number of Times: 6		
Irrigation Power Source: Electricity				Cover Crop Treatment Yield: 1438 Lint lb/A		
Material Applied						
Date	Operation	Method/Implement Used	PTO (HP)	Times Over	Trade Name or Material	Units (pts, lbs, oz, etc.) Product Rate per Acre
10/23/2019	Shredded Stalks	JD 8335R 6 Row Flail Mower	283	1		
10/23/2019	Broadcasted Cover Crops	Spreader Truck		1	Elbon Cereal Rye	lbs. 56
10/23/2019	Fertilizer	Spreader Truck			Custom Rate N-P-K-S-B	lbs. 0-54-108-0-0
3/27/2020	Herbicide	Airplane @ 6GPA		1	Dicamba	oz. 8
	Herbicide				Roundup	oz. 26
	Herbicide				First Shot	oz. 0.4
	Herbicide				Valor	oz. 2
5/21/2020	Planter	12 Row		1	CP 9608 B3XF	Seed/A 47164
	Herbicide				Caporal	pt. 1
	Herbicide				Paraquat	pt. 1
	Surfactant				80/20	oz. 3.97
6/12/2020	Herbicide	JD 4038 R 100' Boom	310	1	Liberty	oz. 32
	Herbicide				Roundup	oz. 24
	Herbicide				Outlook	oz. 12.8
6/15/2020	Fertilizer	Spinner Truck		1	Custom Rate N-P-K-S-B	lbs. 55.5-0-0-24-1
7/8/2020	Fertilizer	Spinner Truck		1	Custom Rate N-P-K-S-B	lbs. 55.2-0-60-0-0
7/8/2020	Herbicide	JD 8320R, 12 Row layby rig	269	1	Liberty	oz. 32
	Herbicide				Roundup	oz. 24
	Herbicide				Outlook	oz. 16
7/14/2020	Insecticide	JD 4038 R 100' Boom	310	1	Prevoke	oz. 2
	PGR				Pix	oz. 16
	Fertilizer				Boron	lbs. 0.1
7/27/2020	Insecticide	JD 4038 R 100' Boom	310	1	Acephate	lb. 0.5
	Insecticide				Diamond	oz. 6
	PGR				Pix	oz. 20
	Fertilizer				Boron	lbs. 0.1
8/6/2020	Insecticide	JD 4038 R 100' Boom	310	1	Acephate	lbs. 0.5
	Insecticide				Diamond	oz. 6
	PGR				Pix	oz. 24

**Table 11. (continued) Field Operations for the COVER CROP side of the field enrolled in the 2020 Cotton Research Verification/Sustainability Program in St. Francis County, AR.**

Date	Operation	Method/Implement Used	PTO (HP)	Times Over	Material Applied		
					Trade Name or Material	Units (pts, lbs, oz, etc.)	Product Rate per Acre
8/11/2020	Insecticide	JD 4038 R 100' Boom	310	1	Acephate	lb.	0.5
	Insecticide				Diamond	oz.	6
	PGR				Pix	oz.	24
8/18/2020	Insecticide	JD 4038 R 100' Boom	310	1	Acephate	lb.	0.5
	Insecticide				Diamond	oz.	6
	PGR				Pix	oz.	24
9/26/2020	Harvest Aid	Airplane		1	Finish	oz.	10.67
	Harvest Aid				Dropp	oz.	2.56
10/6/2020	Harvest Aid	Airplane		1	Folex	oz.	8
	Harvest Aid				Prep	oz.	42.67
11/7/2020	Cotton Picker		6 Row	1	include plastic wrap		

**Table 12. Field Operations for the NON-COVER CROP side of the field enrolled in the 2020 Cotton Research Verification/ Sustainability Program in St. Francis County, AR.**

Irrigation Type: Pivot		Total Irrigation Applied: 3.75 inches		Number of Times: 5			
Irrigation Power Source: Electricity						Cover Crop Treatment Yield: 1172 Lint lb/A	
					<b>Material Applied</b>		
<b>Date</b>	<b>Operation</b>	<b>Method/Implement Used</b>	<b>PTO (HP)</b>	<b>Times Over</b>	<b>Trade Name or Material</b>	<b>Units (pts, lbs, oz, etc.)</b>	<b>Product Rate per Acre</b>
10/23/2019	Shredded Stalks	JD 8335R 6 Row Flail Mower	283	1			
10/23/2019	Fertilizer	Spreader Truck			Custom Rate N-P-K-S-B	lbs.	0-54-108-0-0
3/27/2020	Herbicide	Airplane @ 6GPA		1	Dicamba	oz.	8
	Herbicide				Roundup	oz.	26
	Herbicide				First Shot	oz.	0.4
	Herbicide				Valor	oz.	2
5/21/2020	Planter	12 Row		1	CP 9608 B3XF	seed/A	47164
	Herbicide				Caporal	pt.	1
	Herbicide				Paraquat	pt.	1
	Surfactant				80/20	oz.	3.97
6/12/2020	Herbicide	JD 4038 R 100' Boom	310	1	Liberty	oz.	32
	Herbicide				Roundup	oz.	24
	Herbicide				Outlook	oz.	12.8
6/15/2020	Fertilizer	Spinner Truck		1	Custom Rate N-P-K-S-B	lbs.	55.5-0-0-24-1
7/8/2020	Fertilizer	Spinner Truck		1	Custom Rate N-P-K-S-B	lbs.	55.2-0-60-0-0
7/8/2020	Herbicide	JD 8320R 12 Row, layby rig	269	1	Liberty	oz.	32
	Herbicide				Roundup	oz.	24
	Herbicide				Outlook	oz.	16
7/14/2020	Insecticide	JD 4038 R 100' Boom	310	1	Prevoke	oz.	2
	PGR				Pix	oz.	16
	Fertilizer				Boron	lb.	0.1
7/27/2020	Insecticide	JD 4038 R 100' Boom	310	1	Acephate	lb.	0.5
	Insecticide				Diamond	oz.	6
	PGR				Pix	oz.	20
	Fertilizer				Boron	lb.	0.1
8/6/2020	Insecticide	JD 4038 R 100' Boom	310	1	Acephate	lb.	0.5
	Insecticide				Diamond	oz.	6
	PGR				Pix	oz.	24
8/11/2020	Insecticide	JD 4038 R 100' Boom	310	1	Acephate	lb.	0.5
	Insecticide				Diamond	oz.	6
	PGR				Pix	oz.	24
8/18/2020	Insecticide	JD 4038 R 100' Boom	310	1	Acephate	lb.	0.5
	Insecticide				Diamond	oz.	6
	PGR				Pix	oz.	24
9/26/2020	Harvest Aid	Airplane		1	Finish	oz.	10.67
	Harvest Aid				Dropp	oz.	2.56
10/6/2020	Harvest Aid	Airplane		1	Folex	oz.	8
	Harvest Aid				Prep	oz.	42.67
11/7/2020	Cotton Picker		6 Row	1	include plastic wrap		

**Table 13. General Information for fields enrolled in the 2020 Cotton Research Verification/Sustainability Program for the US Cotton Trust Protocol and Better Cotton Initiative.**

Location: Shelby Farms	Previous Cash Crop: Cotton	Cash Crop Planting Date: 5/23/2020
GPS: 35.1230, -89.8139	This Year's Cash Crop: Cotton	Row Width: 38 inches
Grower: Agricenter Farm	Variety: DP 1646 B2XF	Total Rainfall: 11.78 inches
	Acres: No-till Cover 15; FSNC 15	Harvest Date: 11/23/2020

**Table 14. Field Operations for the COVER CROP side of the field enrolled in the 2020 Cotton Research Verification/Sustainability Program for the US Cotton Trust Protocol and Better Cotton Initiative.**

Irrigation Type: Dryland		Total Irrigation Applied: 0 inches		Number of Times: 0			
Irrigation Power Source: n/a				Cover Crop Treatment Yield: 962 Lint lb/A			
Material Applied							
Date	Operation	Method/Implement Used	PTO (HP)	Times Over	Trade Name or Material	Units (pts, lbs, oz, etc.)	Product Rate per Acre
	Shredded Stalks			1			
12/5/2019	Broadcasted Cover Crop	Case Tractor Broadcasted	74	1	Cereal Rye	lbs.	25
	Broadcasted Cover Crop				Black Oats	lb.	25
	Broadcasted Cover Crop				Hairy Vetch	lb.	2
					Custom Rate		40-80-80-0-0
3/20/2020	Fertilizer	Spreader		1	N-P-K-S-B		
5/15/2020	Herbicide	Case Sprayer 90' Boom	175	1	Gramoxone	oz.	32
5/23/2020	Planter	12 Row 2130 planter		1	DP 1646 B2XF	seed/A	55000
5/23/2020	Herbicide	Case Sprayer 90' Boom	175	1	Cotoran	oz.	24
	Herbicide				Brake	pt.	1
6/18/2020	Herbicide	Case Sprayer 90' Boom	175	1	Liberty	oz.	29
6/23/2020	Fertilizer	Spreader		1	Urea	Units	80
7/8/2020	PGR	Case Sprayer 90' Boom	175	1	Pix	oz.	16
7/17/2020	Herbicide	Case Sprayer 90' Boom	175	1	Liberty	oz.	29
	PGR				Pix	oz.	16
8/28/2020	PGR	Case Sprayer 90' Boom	175	1	Pix	oz.	24
10/20/2020	Harvest Aid	Case Sprayer 90' Boom	175	1	Folex	pt.	1
	Harvest Aid				Ethephon	pt.	2
11/23/2020	Harvest	JD Round Module	560	1	Include Plastic Wrap		

**Table 15. Field Operations for the NON-COVER CROP side of the field enrolled in the 2020 Cotton Research Verification/ Sustainability Program for the US Cotton Trust Protocol and Better Cotton Initiative.**

Irrigation Type: Dryland		Total Irrigation Applied: 0 inches		Number of Times: 0			
Irrigation Power Source: n/a		Cover Crop Treatment Yield: 905 Lint lb/A					
					<b>Material Applied</b>		
<b>Date</b>	<b>Operation</b>	<b>Method/Implement Used</b>	<b>PTO (HP)</b>	<b>Times Over</b>	<b>Trade Name or Material</b>	<b>Units (pts, lbs, oz, etc.)</b>	<b>Product Rate per Acre</b>
	Shredded Stalks			1			
3/20/2020	Fertilizer	Spreader		1	Custom Rate N-P-K-S-B		40-80-80-0-0
5/15/2020	Herbicide	Case Sprayer 90' Boom	175	1	Gramoxone	oz.	32
5/23/2020	Planter	12 Row 2130		1	DP 1646 B2XF	Seeds/A	55000
5/23/2020	Herbicide	Case Sprayer 90' Boom	175	1	Cotoran	oz.	24
	Herbicide				Brake	pt.	1
6/18/2020	Herbicide	Case Sprayer 90' Boom	175	1	Liberty	oz.	29
6/23/2020	Fertilizer	Spreader		1	Urea	Units	80
?	Tillage	Cultivator 6 Row		1			
7/8/2020	PGR	Case Sprayer 90' Boom	175	1	Pix	oz.	16
7/17/2020	Herbicide	Case Sprayer 90' Boom	175	1	Liberty	oz.	29
	PGR				Pix	oz.	16
8/28/2020	PGR	Case Sprayer 90' Boom	175	1	Pix	oz.	24
10/20/2020	Harvest Aid	Case Sprayer 90' Boom	175	1	Folex	pt.	1
	Harvest Aid				Ethephon	pt.	2
11/23/2020	Harvest Aid	JD Round Module	560	1	Include Plastic Wrap		

**Table 16. General Information for fields enrolled in the 2020 Cotton Research Verification/Sustainability Program in Desha County, AR.**

Location: Tillar, AR	Previous Cash Crop: Cotton	Cash Crop Planting Date: North 5/14/20, South 5/13/20
GPS: North: 33.600532, -91.410695	This Year's Cash Crop: Cotton	Row Width: 38 inches
South: 33.599840, -91.411167		
Grower: Sam Whitaker	Variety: DP 1725 B2XF	Total Rainfall: 28.92 inches
County Agent: John David Farabough	Acres: North, 40; South, 32	Harvest Date: 10/23/2020

**Table 17. Field Operations for the COVER CROP field enrolled in the 2020 Cotton Research Verification/Sustainability Program in Desha County, AR – North Field.**

Irrigation Type: Furrow	Total Irrigation Applied: 6 inches	Number of Times: 4
Irrigation Power Source: Diesel		Cover Crop Treatment Yield: 1384 Lint lb/A

Date	Operation	Method/Implement Used	PTO (HP)	Times Over	Trade Name or Material	Material Applied	
						Units (pts, lbs, oz, etc.)	Product Rate per Acre
2/15/2020	Herbicide	JD 4038 120' Boom	310	1	Glyphosate 41%	oz.	40
	Herbicide				Dicamba	oz.	16
	Herbicide				Section 3	oz.	12
	Herbicide				2,4-D	oz.	16
4/1/2020	Tillage	JD 8295R w/ 38' W&A Level Bander	247	1			
5/14/2020	Planter	JD 8295R 12 Row	247	1	DP 1725 B2XF	seed/A	41000
5/19/2020	Herbicide			1	Paraquat	oz.	32
	Surfactant				80/20	oz.	4
	Herbicide				Warrant	oz.	40
5/23/2020	Fertilizer	Spreader Truck		1	Ammonium Sulfate	lb.	100
5/30/2020	Herbicide	JD 4038 120' Boom	310	1	Glufosinate	oz.	32
	Herbicide				Glyphosate	oz.	32
					Acephate	lb.	0.25
6/15/2020	Fertilizer	JD 8295R 12 Row 38" Applicator	247	1	32% N	Gal.	25
6/17/2020	Fertilizer	Spreader Truck		1	Potash	lb.	100
6/17/2020	Fertilizer	JD 4038 120' Boom	310	1	Beau-ron	oz.	12.8
	Insecticide				Diamond	oz.	6
	Insecticide				Vydate	oz.	12.8
	PGR				Mepichlor	oz.	16
6/17/2020	Herbicide	JD 6145 12 Row 38" Post Direct	158	1	Glyphosate	oz.	32
	Herbicide				Glufosinate	oz.	32
	Herbicide				Metolachlor 8E	oz.	24
7/2/2020	PGR	JD 4038 120' Boom	310	1	Mepichlor	oz.	16
	Insecticide				Transform	oz.	1.5
	Insecticide				Diamond	oz.	6.7
					Maxin Cotton	oz.	32
7/6/2020		JD 6145 12 Row 38", Post Direct	158	1	Flumioxazin 51%	oz.	2
	Herbicide				Glyphosate 41%	oz.	32
7/7/2020	PGR	JD 4038 120' Boom	310	1	Mepichlor	oz.	12
					Maxin Cotton	oz.	32
	Fertilizer				Beau-ron	oz.	12.8
7/10/2020	Fertilizer	Airplane		1	Custom Rate N-P-K-S-B	lb.	10.5-0-30-12.0-0
7/16/2020	Insecticide	JD 4038 120' Boom	310	1	Prevathon	oz.	19.9
	PGR				Mepichlor	oz.	4
	Fertilizer				Beau-ron	oz.	12.8
8/3/2020	Insecticide	JD 4038 120' Boom	310	1	Prevathon	oz.	16
	PGR				Mepichlor	oz.	16
	Insecticide				Acephate	lb.	1

**Table 17. (continued) Field Operations for the COVER CROP field enrolled in the 2020 Cotton Research Verification/Sustainability Program in Desha County, AR – North Field.**

Date	Operation	Method/Implement Used	PTO (HP)	Times Over	Material Applied		
					Trade Name or Material	Units (pts, lbs, oz, etc.)	Product Rate per Acre
9/15/2020	Harvest Aid	JD 4038 120' Boom	310	1	Dropp SC	oz.	3.2
	Harvest Aid				Folex	oz.	2
	Harvest Aid				Ethephon	oz.	8
10/3/2020	Harvest Aid	JD 4038 120' Boom	310	1	Def	oz.	10.6
	Harvest Aid				Ethephon	oz.	32
	Harvest Aid				Dropp SC	oz.	3.2
	Harvest Aid				Master Lock	oz.	3
10/23/2020	Harvest	JD Round Module	560	1	Include Plastic Wrap		

**Table 18. Field Operations for the NON-COVER CROP field enrolled in the 2020 Cotton Research Verification/ Sustainability Program in Desha County, AR – South Field.**

Irrigation Type: Furrow		Total Irrigation Applied: 6 inches		Number of Times: 4			
Irrigation Power Source: Diesel						Cover Crop Treatment Yield: 1353 Lint lb/A	
					<b>Material Applied</b>		
<b>Date</b>	<b>Operation</b>	<b>Method/Implement Used</b>	<b>PTO (HP)</b>	<b>Times Over</b>	<b>Trade Name or Material</b>	<b>Units (pts, lbs, oz, etc.)</b>	<b>Product Rate per Acre</b>
2/15/2020	Herbicide	JD 4038 120' Boom	310	1	Glyphosate 41%	oz.	40
	Herbicide				Dicamba	oz.	16
	Herbicide				Section 3	oz.	12
	Herbicide				2,4-D	oz.	16
4/1/2020	Tillage	JD 8295R w/ 38' W&A Level Bander	247	1			
5/13/2020	Planter	JD 8295R 12 Row	247	1	DP 1725 B2XF	seed/A	41000
5/19/2020	Herbicide			1	Paraquat	oz.	32
	Surfactant				80/20	oz.	4
	Herbicide				Warrant	oz.	40
5/23/2020	Fertilizer	Spreader Truck		1	Ammonium Sulfate	lb.	100
5/30/2020	Herbicide	JD 4038 120' Boom	310	1	Glufosinate	oz.	32
	Herbicide				Glyphosate	oz.	32
					Acephate	lb.	0.25
6/15/2020	Fertilizer	JD 8295R 12 Row, 38" Applicator	247	1	32% N	Gal.	25
6/17/2020	Fertilizer	Spreader Truck		1	Potash	lb.	100
6/17/2020	Fertilizer	JD 4038 120' Boom	310	1	Beau-ron	oz.	12.8
	Insecticide				Diamond	oz.	6
	Insecticide				Vydate	oz.	12.8
	PGR				Mepichlor	oz.	16
6/17/2020	Herbicide	JD 6145 12 Row, 38" Post Direct	158	1	Glyphosate	oz.	32
	Herbicide				Glufosinate	oz.	32
	Herbicide				Metolachlor 8E	oz.	24
7/2/2020	PGR	JD 4038 120' Boom	310	1	Mepichlor	oz.	16
	Insecticide				Transform	oz.	1.5
	Insecticide				Diamond	oz.	6.7
					Maxin Cotton	oz.	32
7/6/2020		JD 6145 12 Row 38", Post Direct	158	1	Flumioxazin 51%	oz.	2
	Herbicide				Glyphosate 41%	oz.	32
7/7/2020	PGR	JD 4038 120' Boom	310	1	Mepichlor	oz.	12
					Maxin Cotton	oz.	32
	Fertilizer				Beau-ron	oz.	12.8
7/10/2020	Fertilizer	Airplane		1	Custom Rate N-P-K-S-B	lb.	10.5-0-30-12.0-0
7/16/2020	Insecticide	JD 4038 120' Boom	310	1	Prevathon	oz.	19.9
	PGR				Mepichlor	oz.	4
	Fertilizer				Beau-ron	oz.	12.8
8/3/2020	Insecticide	JD 4038 120' Boom	310	1	Prevathon	oz.	16
	PGR				Mepichlor	oz.	16
	Insecticide				Acephate	lb.	1
9/15/2020	Harvest Aid	JD 4038 120' Boom	310	1	Dropp SC	oz.	3.2
	Harvest Aid				Folex	oz.	2
	Harvest Aid				Ethephon	oz.	8
10/3/2020	Harvest Aid	JD 4038 120' Boom	310	1	Def	oz.	10.6
	Harvest Aid				Ethephon	oz.	32
	Harvest Aid				Dropp SC	oz.	3.2
	Harvest Aid				Master Lock	oz.	3
10/23/2020	Harvest	JD Round Module	560	1	Include Plastic Wrap		