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# Sugarcane Crop Values, Crop Leases, & the Economic Impact of Burning



**Michael E. Salassi**

*Department of Agricultural Economics and Agribusiness  
Louisiana State University Agricultural Center*

**Louisiana State University Agricultural Center**

Louisiana Agricultural Experiment Station / Louisiana Cooperative Extension Service

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# What Does the Term “Sugarcane Crop Value” Mean?

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## Possible Interpretations of “Value”:

- Production costs currently invested in the crop
- Expected market revenue of the crop (*i.e., price x yield*)
- Expected profit of the crop (*i.e., revenue – costs*)

## Additional Questions on “Value”:

- Value to whom?
- Is “value” the same in all circumstances?

# What are Some Problems with the Term “Value”?

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## Questions:

- **What do you mean by the term “value”?**
  - 1) Are you just talking only about current year crop acres in the field?
  - 2) Are you talking about total crop value or value to the grower?
  - 3) What about mill and landlord shares?
  - 4) What about succeeding years production through end of crop cycle?
  - 5) What about the change of tenant within existing crop cycle?
  - 6) What about the sale of land for development?
  - 7) What about pipeline damage to portion of existing crop?
  - 8) Does the current condition of the crop matter?
  - 9) Would you use past prices, current prices or future expected prices?
  - 10) What production costs, if any, would you include or exclude?
  - 11) Do sugar yields matter and, if so, which ones would you use?
  - 12) What about acreage used for seed cane?

# Value of Standing Sugarcane Crop

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## 1) Sugarcane Production Continues with a New Producer

Current producer would receive from new producer:

- a) Unrecovered planting costs, up to that point in time
- b) Any current year production expenses, up to that point in time

## 2) Sugarcane Production is Being Terminated

Current producer would receive:

- a) Net present value of future net returns above variable cultivation and harvest costs
- or
- b) Unrecovered planting cost, if higher

### Note:

- (1) The final price is a negotiated price between the buyer and seller.
- (2) LSU AgCenter planting cost estimates assume recommended practices.
- (3) Cropland lease language should be as specific as possible.

# Allocated / Prorated Sugarcane Planting Costs



## ALLOCATION OF LOUISIANA SUGARCANE PLANTING COSTS IN 2015 FOR SUGARCANE PLANTED IN 2014



Michael A. Deliberto and Michael E. Salassi<sup>1</sup>  
Department of Agricultural Economics & Agribusiness

Staff Report No. 2014-14

September 2014

Sugarcane in Louisiana is a perennial crop which provides for three or more years of harvest before being replanted. Planting costs associated with sugarcane are generally allocated over the years of harvest. This report provides estimates of allocated sugarcane planting costs applicable to the 2015 crop year. It is generally accepted that sugarcane goes through three stages prior to having the first acre of harvestable cane for delivery to the mills for processing. The first step is to plant cultured seed cane. The second step is to harvest cultured seed cane and plant it as propagated seed cane in the following year. The third step is to harvest the propagated seed cane and plant it as plant cane, which is then harvested the following year and sent to the mills for processing into raw sugar. Each stage has associated costs that must be considered. However, given that each harvested acre of cultured seed cane will provide several acres of propagated seed cane which, in turn, provides several acres of plant cane, many of the costs associated with each stage must be spread across several acres rather than simply one acre.

Sugarcane planting ratio, the number of acres of sugarcane which can be planted from one harvested acre of seed cane, varies by sugarcane variety and planting method. Sugarcane varieties impact planting ratios due to differences in stalk populations per acre. Currently, three types of planting methods are utilized at different stages of the seed cane expansion process in Louisiana: hand planting, mechanical wholestalk planting, and mechanical billet planting. For purposes of this report, the following planting ratios will be used to estimate total allocated planting cost per acre of plant cane planted: (1) hand planting wholestalk seed cane = 8 / 1; (2) one-row mechanical planting whole stalk seed cane = 5 / 1; and (3) one-row mechanical planting billeted seed cane = 3 / 1.

Given the assumptions listed above and using the LSU AgCenter Department Agricultural Economics and Agribusiness enterprise budgets, this report provides a procedure to estimate the total planting investment a producer would have in an acre of sugarcane at any point during the crop cycle. However, depending on the stage of the planting process of a particular acre of sugarcane, these estimates will differ. As a result, estimates of the total planting costs a producer would have invested in a sugarcane crop as of **January 1, 2015** (prior to any cultivation operations and costs during the 2015 calendar year) are provided. Planting costs are listed for cultured seed cane, propagated seed cane, plant cane planted in 2014.

Two estimates of planted costs are presented in this report. Total variable planting costs and total planting costs. Total variable costs include primarily planting expenses for purchased seed cane as well as fuel, labor and repair expenses for field operations. Total planting costs include variable costs plus fixed expenses on equipment.

Table 1 presents total estimated allocated planting cost per acre of cultured seed cane. This value represents the total estimated planting cost invested in an acre of cultured seed cane planted in the previous year. Table 2 and 3 present total estimated allocated planting cost per acre associated with

<sup>1</sup> Michael A. Deliberto, Research Associate, and Michael E. Salassi, Professor, Department of Agricultural Economics and Agribusiness, LSU Agricultural Center, Baton Rouge, Louisiana.



## PRORATED SUGARCANE PLANTING COSTS FOR THE 2015 CROP YEAR FOR PLANT CANE AND STUBBLE CROPS

Michael A. Deliberto and Michael E. Salassi  
Department of Agricultural Economics & Agribusiness

Staff Report No. 2014-15

September 2014

The remaining, unrecovered planting cost of plantcane and stubble cane sugarcane crops are determined by the actual planting cost in the year in which the sugarcane crop was planted. The costs of planting will vary from year-to-year depending upon many factors which include cost of seed cane, fuel, fertilizer, chemicals, etc. Therefore, the estimated planting cost in the year in which the sugarcane crop was planted, as well as the expected number of years of harvest, forms the basis for prorating costs (unrecovered planting costs) over the life of the sugarcane crop cycle.

The estimated costs of planting sugarcane are prorated by age based on remaining production. Two sugarcane crop production cycles are common in Louisiana: (a.) a 4-year cycle and (b.) a 5-year cycle. For the 4-year cycle, the first year of fallow/plant operations is followed by three years of harvest (i.e., plant cane, first stubble and second stubble crops). Percentage values used to prorate sugarcane planting costs over a 4-year/3-harvest crop cycle are: plant cane crop – 100%, first stubble crop – 67% and second stubble crop – 33%. For the 5-year cycle, the first year of fallow/plant operations is followed by four years of harvest (i.e., plant cane, first stubble, second stubble and third stubble crops). Percentage values used to prorate sugarcane planting costs over a 5-year/4-harvest crop cycle are: plant cane crop – 100%, first stubble crop – 75%, second stubble crop – 50% and third stubble – 25%. The estimated prorated sugarcane planting costs per acre for these two crop cycles in the 2015 crop year based upon estimated planting costs in the year of planting (indicated in parenthesis) is shown below in Table 1.

**Table 1. Variable and Total Prorated Sugarcane Planting Costs for Plant-cane, First-, Second- and Third-Year Stubble Cane in the 2015 Crop Year.**

Crop stage / Planting method (year planted)	Original Allocated Planting Cost Per Acre in Year of Planting		Prorated Planting Cost Value Per Acre in the 2015 Crop Year			
			3-Crop Cycle (PC, 1ST, 2ND)		4-Crop Cycle (PC, 1ST, 2ND, 3RD)	
	Var. Cost	Total Cost	Var. Cost	Total Cost	Var. Cost	Total Cost
<b>PLANT-CANE CROP<sup>1</sup></b>						
Hand Planted-Cultured Seed Cane (2014)	\$952	\$1,135	\$952	\$1,135	\$952	\$1,135
Hand Planted-Propagated Seed Cane (2014)	\$595	\$800	\$595	\$800	\$595	\$800
Hand Planted-Field Run Seed Cane (2014)	\$550	\$758	\$550	\$758	\$550	\$758
Machine Planted-Propagated Seed Cane (2014)	\$657	\$866	\$657	\$866	\$657	\$866
Machine Planted-Field Run Seed Cane (2014)	\$599	\$813	\$599	\$813	\$599	\$813
Machine Planted-Billet Seed Cane (2014)	\$787	\$1,034	\$787	\$1,034	\$787	\$1,034
<b>FIRST-YEAR STUBBLE<sup>2</sup></b>						
Hand Planted-Cultured Seed Cane (2013)	\$955	\$1,136	\$640	\$761	\$716	\$852
Hand Planted-Propagated Seed Cane (2013)	\$599	\$801	\$401	\$537	\$449	\$601
Hand Planted-Field Run Seed Cane (2013)	\$554	\$759	\$371	\$509	\$416	\$569
Machine Planted-Propagated Seed Cane (2013)	\$685	\$869	\$446	\$582	\$499	\$652
Machine Planted-Field Run Seed Cane (2013)	\$606	\$815	\$406	\$546	\$455	\$611
Machine Planted-Billet Seed Cane (2013)	\$776	\$1,037	\$520	\$695	\$582	\$778



# Allocation of Sugarcane Planting Costs in 2015

## For Sugarcane Planted in 2014



### ALLOCATION OF LOUISIANA SUGARCANE PLANTING COSTS IN 2015 FOR SUGARCANE PLANTED IN 2014



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## Allocation of planting costs for cane planted in 2014 as of January 1, 2015:

- Cultured seed cane hand planted  
VC = \$952                      TC = \$1,135
- Propagated seed cane hand planted  
VC = \$595                      TC = \$800
- Propagated seed cane mech planted  
VC = \$657                      TC = \$866
- Wholestalk plant cane hand planted  
VC = \$550                      TC = \$758
- Wholestalk plant cane mech planted  
VC = \$599                      TC = \$813
- Billet planted plant cane  
VC = \$767                      TC = \$1,034

“field run”  
seed cane  
planted  
to be  
harvested  
for sugar

# Prorated (Unrecovered) Sugarcane Planting Costs

## *For any sugarcane currently standing in the field*



### PRORATED SUGARCANE PLANTING COSTS FOR THE 2015 CROP YEAR FOR PLANT CANE AND STUBBLE CROPS

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The estimated costs of planting sugarcane are prorated by age based on remaining production. Two sugarcane crop production cycles are common in Louisiana: (a.) a 4-year cycle and (b.) a 5-year cycle. For the 4-year cycle, the first year of fallow/plant operations is followed by three years of harvest (i.e., plant cane, first stubble and second stubble crops). Percentage values used to prorate sugarcane planting costs over a 4-year/3-harvest crop cycle are: plant cane crop – 100%, first stubble crop – 67% and second stubble crop – 33%. For the 5-year cycle, the first year of fallow/plant operations is followed by four years of harvest (i.e., plant cane, first stubble, second stubble and third stubble crops). Percentage values used to prorate sugarcane planting costs over a 5-year/4-harvest crop cycle are: plant cane crop – 100%, first stubble crop – 75%, second stubble crop – 50% and first stubble – 25%. The estimated prorated sugarcane planting costs per acre for these two crop cycles in the 2015 crop year based upon estimated planting costs in the year of planting (indicated in parenthesis) is shown below in Table 1.

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Prorated planting costs for standing crops of plant cane and stubble cane in 2015 planted in previous years:

- Hand planted cultured seed cane
- Hand planted propagated seed cane
- Hand planted field run seed cane
- Machine planted propagated seed cane
- Machine planted field run seed cane
- Billet planted seed cane

Standing crops in 2015 (year planted):

- Plant cane (2014)
- First stubble (2013)
- Second stubble (2012)
- Third stubble (2011)

# Prorated (Unrecovered) Sugarcane Planting Costs

## *Calculating correct value for current age of cane*

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Plant cane crop in 2015 =  
100% of original planting cost

First stubble cane crop in 2015 =  
67% of original planting cost  
for a 3-crop harvest cycle

First stubble cane crop in 2015 =  
75% of original planting cost  
for a 4-crop harvest cycle



# Prorated (Unrecovered) Sugarcane Planting Costs

*Calculating correct value for current age of cane*

Second stubble cane crop in 2015 =  
33% of original planting cost  
for a 3-crop harvest cycle

Second stubble cane crop in 2015 =  
50% of original planting cost  
for a 4-crop harvest cycle

Crop stage / Planting method (year planted)	Original Allocated Planting Cost Per Acre in Year of Planting		Prorated Planting Cost Value Per Acre in the 2015 Crop Year			
			3-Crop Cycle (PC, 1ST, 2ND)		4-Crop Cycle (PC, 1ST, 2ND, 3RD)	
	Var. Cost	Total Cost	Var. Cost	Total Cost	Var. Cost	Total Cost
<b>SECOND-YEAR STUBBLE<sup>3</sup></b>						
Hand Planted-Cultured Seed Cane (2012)	\$978	\$1,151	\$323	\$380	\$489	\$576
Hand Planted-Propagated Seed Cane (2012)	\$619	\$813	\$204	\$268	\$310	\$407
Hand Planted-Field Run Seed Cane (2012)	\$573	\$770	\$189	\$254	\$287	\$385
Machine Planted-Propagated Seed Cane (2012)	\$684	\$880	\$226	\$290	\$342	\$440
Machine Planted-Field Run Seed Cane (2012)	\$623	\$824	\$206	\$272	\$312	\$412
Machine Planted-Billet Seed Cane (2012)	\$788	\$1,040	\$260	\$343	\$394	\$520
<b>THIRD-YEAR STUBBLE<sup>4</sup></b>						
Hand Planted-Cultured Seed Cane (2011)	\$943	\$1,112	--	--	\$236	\$278
Hand Planted-Propagated Seed Cane (2011)	\$579	\$769	--	--	\$145	\$193
Hand Planted-Field Run Seed Cane (2011)	\$535	\$727	--	--	\$134	\$182
Machine Planted-Propagated Seed Cane (2011)	\$642	\$834	--	--	\$161	\$208
Machine Planted-Field Run Seed Cane (2011)	\$584	\$781	--	--	\$146	\$195
Machine Planted-Billet Seed Cane (2011)	\$743	\$994	--	--	\$186	\$249

Third stubble cane crop in 2015 =  
25% of original planting cost  
for a 4-crop harvest cycle

# LSU AgCenter Sugarcane Economics Web Page

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**2015 Sugarcane Crop Enterprise Budgets**




This report presents projected values for sugarcane crop enterprise budgets for all phases of sugarcane production in Louisiana for the 2015 crop year.

**Allocation of Louisiana Sugarcane Planting Costs in 2015 for Sugarcane Planted in 2014**




This report presents estimates of total sugarcane planting costs for sugarcane planted in 2014. These planting costs would be allocated to the 2015 plant cane and succeeding stubble crops.

**Prorated Sugarcane Planting Costs in 2015**



This report presents estimates of prorated (unrecovered) planting costs for sugarcane in production for the 2015 crop year, including plant cane planted in 2014, first stubble planted in 2013, second stubble planted in 2012, and third stubble planted in 2011.

**2014 Projected Sugarcane Production Farm Costs and Returns Model**



The 2014 Projected Sugarcane Farm Costs and Returns Model was developed as a farm planning decision tool for Louisiana sugarcane growers. The model is an Excel spreadsheet that allows sugarcane producers to project sugarcane net returns for the coming year and to evaluate the impact of changes in yields, sugar prices, input prices and other factors on whole farm net returns and breakeven values.

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# Valuing a Standing Sugarcane Crop

*Example 1 – New grower takes over operation January 1, 2015*

---

## Situation:

10 acres of plant cane. Landlord takes on new grower (3-yr harvest cycle)  
Current grower harvests through third stubble

## Calculation of Crop Value:

Plant cane - unrecovered planting cost, machine planted field run seed cane (2014)  
 $\$813/\text{acre} \times 10 \text{ acres} = \$8,130$

**Total crop value due current grower  $\approx$  \$8,130**

## Additional Considerations:

Condition of the crop (*have recommended practices been followed*)  
Expected crop cycle length of new grower (*does this matter*)

# Valuing a Standing Sugarcane Crop

*Example 2 – New grower takes over operation January 1, 2015*

---

## Situation:

10 acres of third stubble. Landlord takes on new grower (3-yr harvest cycle)  
Current grower harvests through third stubble

## Calculation of Crop Value:

Third stubble - unrecovered planting cost, machine planted field run seed cane (2011)  
 $\$195/\text{acre} \times 10 \text{ acres} = \$1,950$

Total crop value current grower wants  $\approx$  \$1,950

## Additional Considerations:

Condition of the crop (*have recommended practices been followed*)  
Expected crop cycle length of new grower (*might want to plow out 3<sup>rd</sup> stubble*)



# Valuing a Standing Sugarcane Crop

*Example 3 – Pipeline destroys part of tract on May 1, 2015*

---

## Situation:

10 acre tract of plant cane and pipeline work destroys 1.5 acres  
Current grower harvests through second stubble

## Calculation of Crop Value:

Net present value of future grower net returns:

Plant cane = 1.5 acres x 8,000 lbs/A x \$0.25/lb x 50.8% grower share (2015)  
1<sup>st</sup> stubble = 1.5 acres x 7,500 lbs/A x \$0.25/lb x 50.8% grower share (2016)  
2<sup>nd</sup> stubble = 1.5 acres x 7,000 lbs/A x \$0.25/lb x 50.8% grower share (2017)

plus grower's share of molasses payments (\$1.25/ton on 35 tons/A)  
minus variable cultivation and harvest costs (\$450/A x 1.5 acres x 3 years)

**Total crop value due current grower ≈ \$2,457**

## Additional Considerations:

What about landlord share? *Is the landlord losing any money?*

What about mill share? *If the cane is not harvested, is the mill losing money?*

# Valuing a Standing Sugarcane Crop

*Example 4 – Lease is terminated on January 1, 2015 for land sale*

---

## Situation:

10 acre tract of plant cane. Lease is being terminated. Land sold for development  
Current grower harvests through second stubble

## Calculation of Crop Value:

Net present value of future grower net returns:

Plant cane = 10 acres x 8,000 lbs/A x \$0.25/lb x 50.8% grower share (2015)

1<sup>st</sup> stubble = 10 acres x 7,500 lbs/A x \$0.25/lb x 50.8% grower share (2016)

2<sup>nd</sup> stubble = 10 acres x 7,000 lbs/A x \$0.25/lb x 50.8% grower share (2017)

plus grower's share of molasses payments (\$1.25/ton on 35 tons/A)

minus variable cultivation and harvest costs (\$450/A x 10 acres x 3 years)

**Total crop value due current grower ≈ \$16,365**

## Additional Considerations:

What about landlord share? *Is the landlord losing any money?*

What about mill share? *If the cane is not harvested, is the mill losing money?*

# Sugarcane Crop Lease Language

*Vague, non-specific crop lease language commonly found*

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“Should this crop lease be terminated before the end of the agreed to lease term, the Lessee ( current tenant grower) will be paid the value of plant cane, first stubble and second stubble.”

Three major problems with this language:

- 1) What is meant by the term “value”?
- 2) Does plant cane, first and second stubble reflect current farm production acres?
- 3) Does this language imply payment on all acreage through end of crop cycle?

# Sugarcane Crop Lease Language

*Vague, non-specific crop lease language commonly found*

---

Should this crop lease be terminated before the end of the agreed to lease term,  
the Lessee ( current tenant grower) will be paid  
*the value of plant cane, first stubble and second stubble.*

**Situation: 10 acres PC / 10 acres 1<sup>st</sup> ST / 10 acres 2<sup>nd</sup> ST / 10 acres 3<sup>rd</sup> ST / 5 acres 4<sup>th</sup> ST**

Five possible interpretations of “value” based on this lease language for 45 total acres:

- 1) Unrecovered planting cost of PC, 1<sup>st</sup> ST and 2<sup>nd</sup> ST, current acres only - **\$16,310**
- 2) Expected net returns from PC, 1<sup>st</sup> ST and 2<sup>nd</sup> ST, current acres only - **\$18,293**
- 3) Grower revenue from PC, 1<sup>st</sup> ST and 2<sup>nd</sup> ST, current acres only - **\$31,793**
- 4) Future net returns from PC, 1<sup>st</sup> ST and 2<sup>nd</sup> ST, through harvest of 2<sup>nd</sup> ST - **\$35,315**
- 5) Future net returns from PC through 4<sup>th</sup> ST, through harvest of 4<sup>th</sup> ST - **\$77,365**



# Sugarcane Crop Lease Language

## *Specific Language to Address Each Valuation Situation*

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- 1) Should this crop lease be terminated before the end of the current sugarcane crop cycle and the sugarcane crop will remain in production with another tenant grower,  
the Lessee (current tenant grower) should be paid the total sugarcane unrecovered planting costs applicable to the current sugarcane crop ages (*for this operation's normal sugarcane crop cycle length – i.e., through harvest of third stubble*), assuming recommended production practices have been followed by the Lessee.
- 2) Should this crop lease be terminated before the end of the current sugarcane crop cycle and sugarcane production will be terminated before end of the crop cycle,  
the Lessee (current tenant grower) should be paid the net present value of estimated future net returns above variable cultivation and harvest costs attributable to the tenant grower. *Future net returns will be estimated on all sugarcane acreage currently in production affected by the termination of this lease, through the end of this operation's normal crop cycle – i.e., through harvest of third stubble.*

# Economic Value of Prescribed Sugarcane Burning

## Economic Value of Prescribed Burning to the Louisiana Sugarcane Industry



### What is prescribed burning?

Prescribed burning is a crop management practice widely used in the production and harvest of many agricultural and timber products across the United States. In Louisiana, prescribed burning is widely used in sugarcane production to reduce the amount of excess plant material associated with the harvest, transportation and processing of sugarcane into raw sugar and molasses.

**The annual economic value of prescribed burning to the Louisiana sugarcane industry is estimated to be approximately \$120 million per year.**

### Importance of sugarcane production to Louisiana's agricultural sector

Sugarcane is one of the major agricultural commodities produced in Louisiana. With more than 400,000 acres of sugarcane in production and 11 factories processing approximately 14 million tons of sugarcane into 1.5 million tons of raw sugar and more than 95 million gallons of molasses annually, sugarcane is one of the major economic drivers of the state's agricultural sector. Louisiana also is one of the major sugarcane producing states in the United States. The value of the state's sugarcane crop has averaged \$948 million per year during the 2011-2013 crop years.

### Benefits of prescribed burning in Louisiana sugarcane production

The burning of sugarcane as a crop harvest management practice has many benefits, both direct and indirect. Some of the direct benefits of sugarcane burning in Louisiana include:

- Improving the efficiency of harvesting sugarcane in the field, thereby reducing the cost of harvesting sugarcane.
- Reducing the number of truckloads needed to transport harvested sugarcane to the mills, thereby reducing traffic as well as wear and tear on public roads.
- Decreasing the volume of plant material that must be processed at sugar mills, thereby shortening the harvest and processing season.
- Increasing the recovery of raw sugar from processed sugarcane, thereby improving the overall quality of the sugar produced.
- Decreasing yield losses in subsequent sugarcane stubble crops, thereby extending the crop cycle and reducing planting costs.

Some of the indirect benefits of sugarcane burning include:

- Reducing plant diseases that might overwinter on remaining crop material.
- Reducing insect pest populations in fields on subsequent stubble crops.
- Reducing the establishment and spread of weeds that affect crop yields.



## Base Level Production Data (2011-2013 avg.)

- 424,647 acres of sugarcane in production
- 397,280 acres of sugarcane harvested for sugar
- 13.578 million tons of sugarcane harvested
- 227 pounds per ton sugar recovery
- \$0.276 average market price

## Annual Value of Burning

- Reduction in additional transportation costs  
\$14,181,869 per year.
- Reduction in additional processing costs  
\$6,129,132 per year.
- Reduction in sugar recovery losses  
\$29,784,658 per year.
- Reduction in stubble crop cane yield losses  
\$70,253,537 per year.

**Total annual value of the economic benefit of burning to the Louisiana sugarcane industry:  
\$120,349,196 per year.**

# Economic Value of Prescribed Sugarcane Burning

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### Economic Value of Prescribed Burning to the Louisiana Sugarcane Industry




This report presents an estimate of the economic value of prescribed burning to the Louisiana sugarcane industry. Four important benefits of prescribed sugarcane burning were valued at an annual benefit of approximately \$120 million per year.

### Prescribe Burn Plan Worksheet




A prescribe burn plan should be completed by each grower before the harvest season. One plan can be completed for an entire farm or for an individual field. All information needed to plan and conduct a burn and for comments concerning the burn is contained in the form. The plan was devised to help farm operators control the burning of sugarcane to lessen their impact on public health and welfare, which includes pre-burn considerations and weather information.

### Certified Prescribed Burn Manager Program for Sugarcane



A Certified Prescribed Burn Manager (CPBM) is an individual who successfully completes a Louisiana Department of Agriculture and Forestry (LDAF) approved certification training program, passes a written test, has performed five sugarcane burns successfully and is certified by the LDAF.

### Louisiana Smoke Management Guidelines for Sugarcane Harvesting



These guidelines are intended to help manage smoke and ash from sugarcane prescribed burning operations to lessen their impact on public health and welfare.

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## Michael E. Salassi, Professor

Dept. of Agricultural Economics & Agribusiness  
101 Martin D. Woodin Hall  
Louisiana State University Agricultural Center  
Baton Rouge, LA 70803

Phone: 225-578-2713

Fax: 225-578-2716

Email: [msalassi@agcenter.lsu.edu](mailto:msalassi@agcenter.lsu.edu)

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