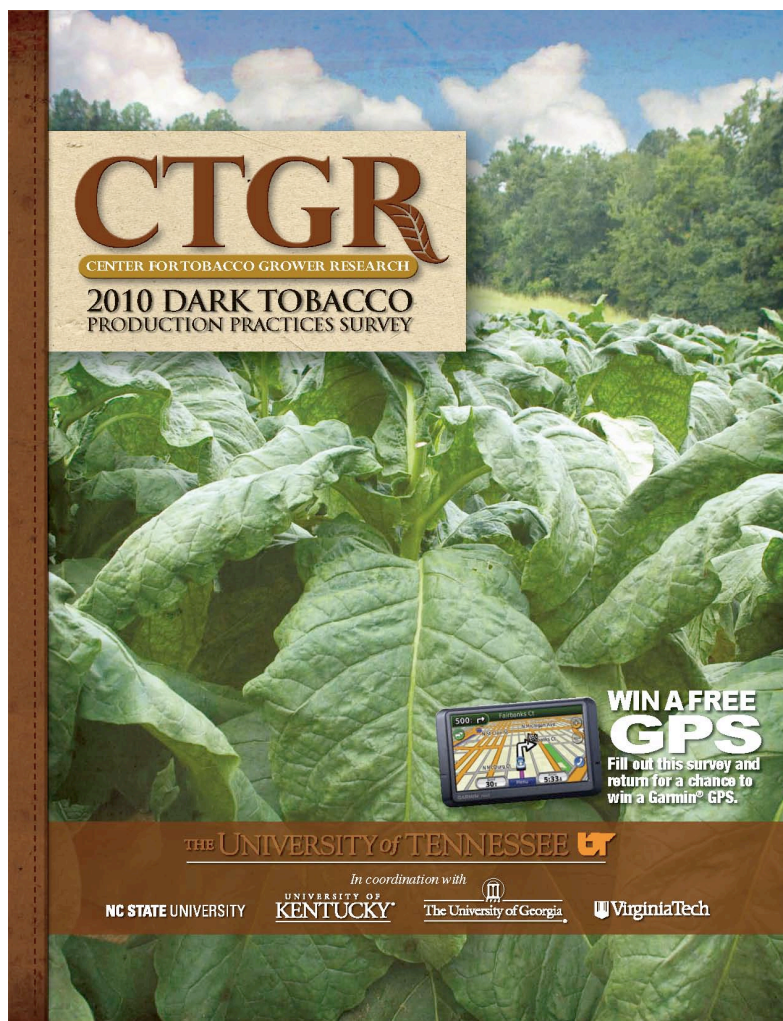


# 2010 DARK TOBACCO PRODUCTION PRACTICE SURVEY SUMMARY



## Table of Contents

<b>I. PRODUCTION</b> .....	5
1. How many acres of dark tobacco did you harvest in 2009 and 2010? (acres).....	5
2. What was your 2009 and 2010 yield per acre for harvested dark tobacco? (pounds per acre).....	5
3. What was your dark tobacco average sales price in 2009, including any additional payments (contract incentives) by the purchaser? (\$ per lb) .....	5
4. How many stalk positions/grades do you normally market from dark tobacco .....	5
5. Did you purchase or produce tobacco plants in 2010? .....	6
6. How many plants did you set per acre in your 2010 dark tobacco crop? .....	6
7. Did you use no-till or strip till in any of your 2010 dark tobacco crop? .....	6
8. Did you have a soil test done before planting this year? .....	6
<b>II. LABOR</b> .....	6
9. Please list the number of workers employed in each labor category for your 2010 dark tobacco crop.....	6
10. Please estimate the total number of hours (including both hired and family) worked in each of the following categories for your 2010 dark tobacco crop. ....	7
11. Please estimate the total number of family and hired workers for each of the following categories in your 2010 dark tobacco crop. ....	7
12. What other expenses (other than wages and required social security withholdings) do you have for non-H-2A workers? .....	7
13. Types of other expenses listed by respondents.....	8
<b>III. MACHINERY AND EQUIPMENT</b> .....	8
14. Did you use the following machinery and equipment on dark tobacco in 2010 .....	8
<b>IV. LAND</b> .....	9
15. Percent of growers who grew some or their entire 2010 dark tobacco crop on land that they owned.....	9

16. Average number of acres of dark tobacco on a farm grown on land that was owned.....	9
17. Percent of growers who grew some or their entire 2010 dark tobacco crop on land that they rented.....	9
18. Average number of acres of dark tobacco on a farm grown on land that was rented.....	9
19. Proportion of total dark tobacco acres per farm that were grown on land that was owned and rented.....	9
20. Land Rental Prices (\$ per acre).....	10
<b>V. OTHER ITEMS .....</b>	<b>10</b>
21. Did you have crop insurance for your 2010 dark tobacco crop? .....	10
22. Did you have operating loans for your 2010 dark tobacco crop? .....	10
23. Percent of growers who had the capability to irrigate their 2010 dark tobacco crop.....	10
24. Average number of acres of dark tobacco on a farm that could be irrigated by those who had the capability.....	10
25. Proportion of total dark tobacco acres on a farm that can be irrigated on those farms with the capability to irrigate.....	10
26. Percentage of total dark tobacco acres represented in this survey that have the capability of being irrigated.....	11
27. What type of irrigation system do you use on your dark tobacco crop? .....	11
28. Types of other irrigation systems listed by respondents. ....	11
29. Please specify any Local/State/Federal programs or grants (including cost-share assistance) you have applied to help in your tobacco operation. ....	11
30. Do you grow other types of tobacco besides dark tobacco?.....	12
31. Types of other tobacco listed by respondents.....	12
<b>VI. CURING MATERIALS .....</b>	<b>12</b>
32. Curing materials .....	12
<b>VII. FERTILIZER AND CHEMICALS .....</b>	<b>12</b>
33. When do you purchase the majority of fertilizer for your dark tobacco crop? .....	12

34. Average amount of fertilizer used on your dark tobacco crop in 2010.....	13
35. Did you use the following insecticides on dark tobacco by 2010?.....	13
36. Did you use the following fungicides on dark tobacco by 2010?.....	15
37. Did you use the following sucker control chemicals by 2010? .....	15
38. Did you use the following herbicides by 2010? .....	16
39. Did you use the following nematicides/fumigants by 2010? .....	16
40. Did not use the above chemicals?.....	16
41. How many times do you normally apply insecticides to your dark tobacco during the growing season?.....	17
42. Do you use insecticides before transplanting your dark tobacco? .....	17
43. Do you apply insecticides after transplanting your dark tobacco?.....	17
44. How many times do you normally apply fungicides to your dark tobacco during the growing season?.....	17
45. Do you use fungicides before transplanting your dark tobacco? .....	17
46. Do you apply fungicides after transplanting your dark tobacco?.....	18
47. How many times do you normally apply sucker control chemicals to your dark tobacco during the growing season?.....	18
48. When do you normally apply herbicides to your dark tobacco during the growing season? .....	18
49. How many times do you normally apply nematicides/fumigants to your dark tobacco during the growing season?.....	18
VIII. States included.....	18

## I. PRODUCTION

1. How many acres of dark tobacco did you harvest in 2009 and 2010? (acres)

	N	Min	Max	Mean	Median	Std
Harvested acres of dark air in 2009	80	0.3	60	6.0	3.4	8.2
Harvested acres of dark air in 2010	78	0.2	60	6.0	3.0	8.3
Harvested acres of dark-fired in 2009	71	1	100	19.9	12	21.6
Harvested acres of dark-fired in 2010	70	1	100	19.8	13	21.6

2. What was your 2009 and 2010 yield per acre for harvested dark tobacco? (pounds per acre)

	N	Min	Max	Mean	Median	Std
Yield per acre of dark air in 2009	80	1100	4120	2911	2900	549
Yield per acre of dark air in 2010	76	1600	5217	2811	2725	542
Yield per acre of dark-fired in 2009	70	1920	4630	3289	3300	608
Yield per acre of dark-fired in 2010	68	1800	5217	3094	3050	643

3. What was your dark tobacco average sales price in 2009, including any additional payments (contract incentives) by the purchaser? (\$ per lb)

	N	Min	Max	Mean	Median	Std
Average price per lb. of dark air in 2009	79	1.85	2.60	2.22	2.25	0.12
Average price per lb. of dark-fired in 2009	71	2.00	3.25	2.48	2.53	0.18

4. How many stalk positions/grades do you normally market from dark tobacco

Responses	N	%
Less than three	18	18.4
Three	62	63.3
Four	17	17.3
More than four	1	1.0

5. Did you purchase or produce tobacco plants in 2010?

Responses	N	%
I purchased all my dark tobacco plants	71	73.2
I purchased the majority but not all of my dark tobacco plants	1	1.0
I produced all of my dark tobacco plants	23	23.7
I produced the majority but not all of my dark tobacco plants	2	2.1

6. How many plants did you set per acre in your 2010 dark tobacco crop?

N	Min	Max	Mean	Median	Std
94	1,100	8,000	4,909	5,000	715

7. Did you use no-till or strip till in any of your 2010 dark tobacco crop?

Response	N	%
Yes	4	4
No	96	96

8. Did you have a soil test done before planting this year?

Response	N	%
Yes	85	85.9
No	14	14.1

## II. LABOR

9. Please list the number of workers employed in each labor category for your 2010 dark tobacco crop.

Categories		N	Min	Max	Mean	Median	Std
Family	Full-time	54	1	5	2	2	1
	Part-time	44	1	10	3	3	2
Non-family and non-H-2A	Full-time	11	1	6	3	3	2
	Part-time	38	1	15	5	4	4
H-2A workers	Full-time	32	3	24	10	10	5
	Part-time	14	2	14	7	6	3

10. Please estimate the total number of hours (including both hired and family) worked in each of the following categories for your 2010 dark tobacco crop.

Categories	N	Min	Max	Mean	Median	Std
Before transplanting	31	1	60	9	4	15
During transplanting	35	1	55	13	8	14
Between transplanting and harvest	33	3	126	36	28	31
During harvest and housing	35	20	160	65	50	37
During stripping/baling and other market preparation	35	27	164	63	53	30
Total per acre	35	102	398	184	152	88

11. Please estimate the total number of family and hired workers for each of the following categories in your 2010 dark tobacco crop.

Categories		N	Min	Max	Mean	Median	Std
Before transplanting	Hired	19	1	5	2	2	1
	Family	72	1	6	2	2	1
During transplanting	Hired	61	1	6	3	3	1
	Family	82	1	11	3	2	2
Between transplanting and harvest	Hired	61	1	10	5	4	3
	Family	76	1	8	2	2	1
During harvest and housing	Hired	79	2	25	8	6	5
	Family	78	1	15	3	2	2
During stripping/ baling and other marketing preparation work	Hired	70	1	18	7	6	4
	Family	73	1	8	2	2	1

12. What other expenses (other than wages and required social security withholdings) do you have for non-H-2A workers?

Items	Responses	N	%
Don't have other expenses	Yes	40	40.4
	No	59	59.6
Utilities	Yes	25	25.3
	No	74	74.7
Meals	Yes	24	24.2
	No	75	75.8
Housing	Yes	23	23.2
	No	76	76.8
Workers' compensation	Yes	27	27.3

Items	Responses	N	%
insurance	No	72	72.7
Day-to-day transportation	Yes	30	30.3
	No	69	69.7
Safety gear or training	Yes	25	25.3
	No	74	74.7
Others	Yes	3	3
	No	96	97

13. Types of other expenses listed by respondents.

Types of other expenses
Drinks and ice
Farm liability insurance

### III. MACHINERY AND EQUIPMENT

14. Did you use the following machinery and equipment on dark tobacco in 2010

Equipments	Responses	N	%
High clearance sprayer (Hi-boy)	Yes	51	51.5
	No	48	48.5
1-row planter	Yes	11	11.1
	No	88	88.9
2-row planter	Yes	77	77.8
	No	22	22.2
4-row planter	Yes	11	11.1
	No	88	88.9
Larger than 4-row planter	Yes	-	-
	No	99	100.0
Mechanical harvester	Yes	-	-
	No	99	100.0
Stripping aids	Yes	22	22.2
	No	77	77.8
Mechanical stripper/grader	Yes	-	-
	No	99	100.0
Conveyer belt	Yes	2	2.0
	No	97	98.0
Big baler with scales	Yes	12	12.1
	No	87	87.9

Equipments	Responses	N	%
Big balers without scales	Yes	2	2.0
	No	97	98.0
Don't use any of the above listed equipments	Yes	8	8.1
	No	91	91.9

#### IV. LAND

15. Percent of growers who grew some or their entire 2010 dark tobacco crop on land that they owned.

	N	%
Yes	82	84.5
No	15	15.5

16. Average number of acres of dark tobacco on a farm grown on land that was owned.

N	Min	Max	Mean	Median	Std
82	0.3	90	10.9	5	13.3

17. Percent of growers who grew some or their entire 2010 dark tobacco crop on land that they rented.

	N	%
Yes	48	53.3
No	42	46.7

18. Average number of acres of dark tobacco on a farm grown on land that was rented.

N	Min	Max	Mean	Median	Std
48	0.7	68	16.6	9.5	18.2

19. Proportion of total dark tobacco acres per farm that were grown on land that was owned and rented.

	N	Min	Max	Mean	Median	Std
Owned	94	0	1	0.69*	0.89	0.37
Rented	94	0	1	0.31	0.11	0.37

\* On the average dark tobacco farm, 69% of the dark tobacco crop was grown on land that was owned.

20. Land Rental Prices (\$ per acre)

	N	Min	Max	Mean	Median	Std
If rented, average rental price per acre paid if a curing barn was included	29	20	1000	448.3	400	343.7
If rented, average rental price per acre paid if a curing barn was not included	36	100	500	266.1	225	134.7

V. OTHER ITEMS

21. Did you have crop insurance for your 2010 dark tobacco crop?

Responses	N	%
Yes	63	63
No	37	37

22. Did you have operating loans for your 2010 dark tobacco crop?

Responses	N	%
Yes	50	50.5
No	49	49.5

23. Percent of growers who had the capability to irrigate their 2010 dark tobacco crop.

	N	%
Yes	47	54.0
No	40	46.0

24. Average number of acres of dark tobacco on a farm that could be irrigated by those who had the capability.

N	Min	Max	Mean	Median	Std
45	0.3	82	18.6	13	19.4

25. Proportion of total dark tobacco acres on a farm that can be irrigated on those farms with the capability to irrigate.

N	Min	Max	Mean	Median	Std
94	0	1	0.40*	0	0.45

\*Of those that can irrigate, on average they can irrigate 40% of their dark tobacco crop.

26. Percentage of total dark tobacco acres represented in this survey that have the capability of being irrigated.

Total dark tobacco acres represented in survey ( <i>owned plus rented</i> )	1,689.9
Total number of dark tobacco acres that have the capability of being irrigated	834.7
Percentage of total dark tobacco acres that can be irrigated	0.49

27. What type of irrigation system do you use on your dark tobacco crop?

Irrigation system	Responses	N	%
Don't irrigate	Yes	30	30.6
	No	68	69.4
Center pivot	Yes	-	-
	No	98	100
Travelling Gun	Yes	30	30.6
	No	68	69.4
Movable pipe with gun or overhead sprinklers	Yes	18	18.4
	No	80	81.6
Drip system	Yes	16	16.3
	No	82	83.7
Others	Yes	2	2.0
	No	96	98.0

28. Types of other irrigation systems listed by respondents.

Types
Creek water pump
Ran water down middle of row

29. Please specify any Local/State/Federal programs or grants (including cost-share assistance) you have applied to help in your tobacco operation.

Responses
KY burley coop in 2004
Phase I field tile program

State for help on irrigation equipment
Sure disaster program

30. Do you grow other types of tobacco besides dark tobacco?

Response	N	%
Yes	44	45.4
No	53	54.6

31. Types of other tobacco listed by respondents.

Responses	N	%
1 Sucker	1	2.2
Burley	40	88.9
Burley and flue cured	1	2.2
Flue cured	2	4.4
Seed tobacco	1	2.2

## VI. CURING MATERIALS

32. Curing materials

	N	Min	Max	Mean	Median	Std
Cost of saw dust per acre in 2010	65	87	1200	376	333	240
Miles (one-way) travelled to get saw dust in 2010	56	1	250	44	30	50
Cost of slabs per acre in 2010	64	23	800	185	124	154
Number of firings used to cure a barn of dark fired in 2010	65	2	8	4	4	1
Total cost per acre	65	150	1800	558	500	345

## VII. FERTILIZER AND CHEMICALS

33. When do you purchase the majority of fertilizer for your dark tobacco crop?

Response	N	%
Winter(December, January, February)	18	18.4
Spring (March, April, May)	77	78.6

Summer (June, July, August)	2	2.0
Fall (September, October, November)	1	1.0

34. Average amount of fertilizer used on your dark tobacco crop in 2010.

Fertilizer	N	Min	Max	Mean	Median	Std
<b>Nitrogen</b>	75	140	500	256	250	62
<b>Phosphorus</b>	73	0	920	190	184	130
<b>Potassium</b>	73	75	1200	249	240	148

35. Did you use the following insecticides on dark tobacco by 2010?

Insecticides	Responses	N	%
<b>Acephate</b>	Yes	56	58.3
	No	40	41.7
<b>Actara</b>	Yes	-	-
	No	96	100
<b>Admire</b>	Yes	70	72.9
	No	26	27.1
<b>Alias 2F</b>	Yes	6	6.3
	No	90	93.8
<b>Advise 2F</b>	Yes	-	-
	No	96	100
<b>Assail</b>	Yes	-	-
	No	96	100
<b>Belt</b>	Yes	3	3.1
	No	93	96.9
<b>Nuprid</b>	Yes	1	1
	No	95	99
<b>Widow 2F</b>	Yes	2	2.1
	No	94	97.9
<b>Capture</b>	Yes	13	13.5
	No	83	86.5
<b>Coragen</b>	Yes	18	18.8
	No	78	81.3
<b>Denim</b>	Yes	5	5.2
	No	91	94.8
<b>DiPel</b>	Yes	48	50

Insecticides	Responses	N	%
	No	48	50
<b>Endosulfan</b>	Yes	2	2.1
	No	94	97.9
<b>Fulfill</b>	Yes	1	1
	No	95	99
<b>Grizzly</b>	Yes	-	-
	No	96	100
<b>Karate</b>	Yes	-	-
	No	96	100
<b>Lambda Cy</b>	Yes	2	2.1
	No	94	97.9
<b>Lannate</b>	Yes	1	1
	No	95	99
<b>Lepinox</b>	Yes	-	-
	No	96	100
<b>Lorsban</b>	Yes	11	11.5
	No	85	88.5
<b>Mocap</b>	Yes	-	-
	No	96	100
<b>Tracer</b>	Yes	17	17.7
	No	79	82.3
<b>Torrent</b>	Yes	6	6.3
	No	90	93.8
<b>Orthene</b>	Yes	68	70.8
	No	28	29.2
<b>Platinum</b>	Yes	1	1
	No	95	99
<b>Provado</b>	Yes	-	-
	No	96	100
<b>Sevin</b>	Yes	2	2.1
	No	94	97.9
<b>Silencer</b>	Yes	-	-
	No	96	100
<b>T-Moxx</b>	Yes	-	-
	No	96	100
<b>Warrior I</b>	Yes	14	14.6
	No	82	85.4
<b>Warrior T</b>	Yes	3	3.1
	No	93	96.9

Insecticides	Responses	N	%
<b>Warrior II</b>	Yes	8	8.3
	No	88	91.7

36. Did you use the following fungicides on dark tobacco by 2010?

Fungicides	Responses	N	%
Acrobat	Yes	1	1.0
	No	95	99.0
Actigard	Yes	2	2.1
	No	94	97.9
Agrimycin 17	Yes	15	15.6
	No	81	84.4
Dithane	Yes	15	15.6
	No	81	84.4
Firewall	Yes	1	1.0
	No	95	99.0
Forum	Yes	-	-
	No	96	100
Manzate	Yes	1	1.0
	No	95	99.0
Penncozeb	Yes	-	-
	No	96	100
Quadris	Yes	42	43.8
	No	54	56.2
Ridomil Gold/ Ultra Flourish	Yes	51	53.1
	No	45	46.9
Streptomycin	Yes	19	19.8
	No	77	80.2
Terramaster	Yes	12	12.5
	No	84	87.5

37. Did you use the following sucker control chemicals by 2010?

Sucker control chemicals	Responses	N	%
DNA(such as Butralin, Prime+, Drexalin)	Yes	75	78.1
	No	21	21.9
MH (such as Royal MH-30, Fair Plus)	Yes	41	42.7
	No	55	57.3

Fatty Alcohol (such as Sucker Plucker, Off-shoot T, Fair 85)	Yes	68	70.8
	No	28	29.2

38. Did you use the following herbicides by 2010?

Herbicides	Responses	N	%
Acumen	Yes	-	-
	No	96	100.0
Aim	Yes	-	-
	No	96	100.0
Command	Yes	38	39.6
	No	58	60.4
Devrinol 50 DF	Yes	15	15.6
	No	81	84.4
Devrinol 2E	Yes	6	6.2
	No	90	93.8
Poast	Yes	13	13.7
	No	82	86.3
Prowl	Yes	39	40.6
	No	57	59.4
Sparthan	Yes	67	69.8
	No	29	30.2

39. Did you use the following nematicides/fumigants by 2010?

Nematicides/fumigants	Responses	N	%
Nemacur	Yes	-	-
	No	96	100
Telone II	Yes	-	-
	No	96	100
Telone C-17	Yes	-	-
	No	96	100
Vapam	Yes	1	1.0
	No	95	99.0

40. Did not use the above chemicals?

Responses	N	%
Yes	10	10.53
No	85	89.47

41. How many times do you normally apply insecticides to your dark tobacco during the growing season?

Response	N	%
None	1	1.0
One	3	3.1
Two	11	11.3
Three or More	82	84.6

42. Do you use insecticides before transplanting your dark tobacco?

Response	N	%
Yes	87	89.7
No	10	10.3

43. Do you apply insecticides after transplanting your dark tobacco?

Response	N	%
Yes	88	90.7
No	9	9.3

44. How many times do you normally apply fungicides to your dark tobacco during the growing season?

Response	N	%
None	33	34.4
One	27	28.1
Two	27	28.1
Three or More	9	9.4

45. Do you use fungicides before transplanting your dark tobacco?

Response	N	%
Yes	36	39.6
No	55	60.4

46. Do you apply fungicides after transplanting your dark tobacco?

Response	N	%
Yes	46	52.9
No	41	47.1

47. How many times do you normally apply sucker control chemicals to your dark tobacco during the growing season?

Responses	N	%
One	35	35.7
Two	54	55.1
Three or More	9	9.2

48. When do you normally apply herbicides to your dark tobacco during the growing season?

Responses	N	%
None	6	6.4
Before transplanting	68	73.1
Within 10 days of transplanting	13	14.0
More than 10 days of transplanting	6	6.4

49. How many times do you normally apply nematicides/fumigants to your dark tobacco during the growing season?

Responses	N	%
None	95	97.9
Two	2	2.1

## VIII. STATES INCLUDED

State	N	%
KY	61	59.8
NC	2	2.0
OH	1	1.0
TN	33	32.4
VA	4	3.9
WI	1	1.0