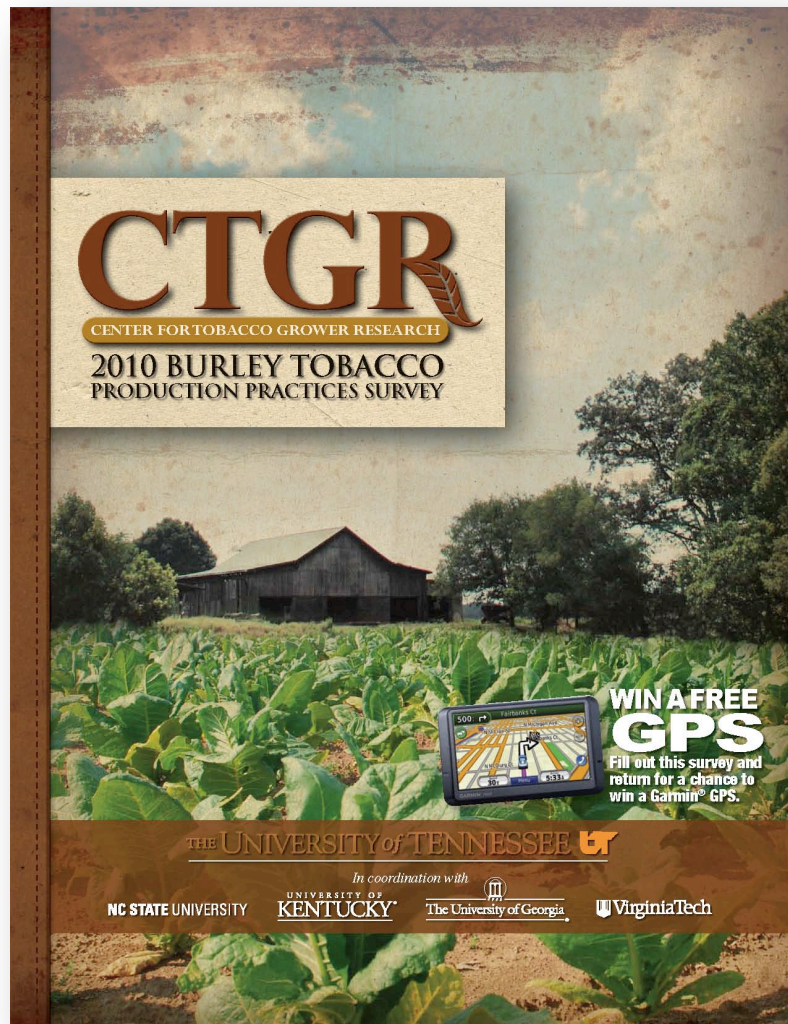


# 2010 BURLEY TOBACCO PRODUCTION PRACTICE SURVEY SUMMARY



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## I. PRODUCTION

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

	N	Min	Max	Mean	Median	Std
Harvested acres of burley in 2009	478	0.4	300.0	14.8	6.75	26.1
Harvested acres of burley in 2010	432	0.5	350.0	15.0	7.0	27.1

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

	N	Min	Max	Mean	Median	Std
Yield per acre of burley in 2009	464	225	3970	2137	2120	561
Yield per acre of burley in 2010	424	200	4000	2122	2100	559

3. What was your burley 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 burley in 2009	454	\$1.00	\$2.61	\$1.72	\$1.75	\$0.11

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

Responses	N	%
Less than three	5	1.1
Three	292	62.0
Four	154	32.7
More than four	20	4.3

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

Responses	N	%
I purchased all my burley tobacco plants	201	45.6
I purchased the majority but not all of my burley tobacco plants	11	2.5
I produced all of my burley tobacco plants	197	44.7
I produced the majority but not all of my burley tobacco plants	32	7.3

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

N	Min	Max	Mean	Median	Std
397	1,100	11,520	7,478	7,500	1,363

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

Response	N	%
Yes	14	3.1
No	438	96.9

8. Did you have a soil test done before planting this year (2010)?

Response	N	%
Yes	259	57.3
No	193	42.7

## II. LABOR

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

Categories		N	Min	Max	Mean	Median	Std
Non-family and non-H-2A	Full-time	77	1	20	4	3	4
	Part-time	281	1	40	6	5	6
H-2A workers	Full-time	21	3	15	7	6	3
	Part-time	27	1	16	5	4	4
Family	Full-time	152	1	6	2	2	1
	Part-time	251	1	10	3	2	1

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

Categories	N	Min	Max	Mean	Median	Std
Before transplanting	232	0.5	60.0	10.1	6.7	9.9
During transplanting	248	1.0	100.0	14.7	11.3	12.9
Between transplanting and harvest	239	1.7	100.0	18.6	15.0	14.1
During harvest and housing	248	2.0	200.0	51.5	48.0	23.9
During stripping/baling and other market preparation	246	6.7	160.0	72.7	66.7	28.6
<b>Total per acre</b>	<b>249</b>	<b>91.0</b>	<b>272.3</b>	<b>165.0</b>	<b>158.0</b>	<b>45.6</b>

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

Categories		N	Min	Max	Mean	Median	Std
Before transplanting	Hired	110	1	12	2	2	2
	Family	290	1	10	2	2	1
During transplanting	Hired	246	1	50	4	3	3
	Family	334	1	20	3	2	2
Between transplanting and harvest	Hired	192	1	20	4	3	3
	Family	294	1	12	2	2	2
During harvest and housing	Hired	303	1	40	7	6	5
	Family	315	1	20	3	2	2
During stripping/baling and other marketing preparation work	Hired	269	1	32	6	5	4
	Family	306	1	11	2	2	2

12. What other expenses (other than wages and required social security withholdings) will you have for your non-H-2A labor in your 2010 burley crop?

Items	Responses	N	%
Don't have other expenses	Yes	208	51.9
	No	193	48.1
Utilities	Yes	83	20.7
	No	319	79.4
Meals	Yes	142	35.4
	No	259	64.6
Housing	Yes	49	12.2
	No	352	87.8
Workers' compensation insurance	Yes	33	8.2
	No	368	91.8
Day-to-day transportation	Yes	81	20.2
	No	320	79.8
Others	Yes	10	2.5
	No	390	97.5

13. Types of other expenses listed by respondents

Types
1099 W2
Drinks
Fuel
Health insurance, fuel, clothing, childcare
Snacks and drinks
Transportation

### III. MACHINERY AND EQUIPMENT

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

Equipment	Responses	N	%
High clearance sprayer (Hi-boy)	Yes	246	55.9
	No	194	44.1
1-row planter	Yes	154	35.0
	No	286	65.0
2-row planter	Yes	259	58.9
	No	181	41.1
4-row planter	Yes	23	5.2
	No	417	94.8
Larger than 4-row planter	Yes	2	0.5
	No	438	99.6
<i>Types of larger than 4-row planter</i>	<i>6 row</i>	<i>1</i>	<i>100</i>
Mechanical harvester	Yes	3	0.7
	No	437	99.3
Stripping Aids	Yes	12	2.7
	No	428	97.3
Mechanical strippers	Yes	2	0.5
	No	438	99.6
Conveyer belt	Yes	4	0.9
	No	436	99.1
Big baler with scales	Yes	102	23.2
	No	338	76.8
Big balers without scales	Yes	26	5.9
	No	413	94.1
Don't use any of the above listed equipment	Yes	37	8.4
	No	403	91.6

#### IV. LAND

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

	N	%
Yes	364	85.3
No	63	14.8

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

N	Min	Max	Mean	Median	Std
364	0.06	160.0	9.6	5.5	14.3

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

	N	%
Yes	160	39.3
No	247	60.7

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

N	Min	Max	Mean	Median	Std
160	0.5	125	15.8	8.0	21.3

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

	N	Min	Max	Mean	Median	Std
Owned	416	0	1	0.74*	1	0.37
Rented	416	0	1	0.26	0	0.37

\* On the average burley tobacco farm, 74% of the burley 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	107	50	1000	251	200	154
If rented, average rental price per acre paid if a curing barn was not included	80	10	500	168	150	106

## V. OTHER ITEMS

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

Responses	N	%
Yes	231	51.6
No	217	48.4

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

Responses	N	%
Yes	160	36.1
No	283	63.9

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

	N	%
Yes	116	28.6
No	289	71.4

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

N	Min	Max	Mean	Median	Std
115	0.75	100	17.2	10.0	19.4

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

N	Min	Max	Mean	Median	Std
416	0	1	0.21*	0	0.38

\* Of those that can irrigate, on average they can only irrigate 21% of their burley tobacco crop.

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

Total burley tobacco acres represented in survey ( <i>owned plus rented</i> )	6,004.77
Total number of burley tobacco acres that have the capability of being irrigated	1,975.28
Percentage of total burley tobacco acres that can be irrigated	0.33

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

Irrigation system	Responses	N	%
Don't irrigate	Yes	255	69.7
	No	111	30.3
Center pivot	Yes	3	0.8
	No	363	99.2
Travelling Gun	Yes	23	6.3
	No	343	93.7
Movable pipe with gun or overhead sprinklers	Yes	69	18.9
	No	297	81.2
Drip system	Yes	4	1.1
	No	362	98.9
Others	Yes	3	0.8
	No	363	99.2

28. Types of other irrigation systems listed by respondents.

Types
Gravity flow
Run down row

29. Local/State/Federal program applied for by burley tobacco growers to help their tobacco operation.

Responses
1 time through coop
2-3 acre lakes for irrigation
2500 cost share from Philip Morris on big balers
CAIP
KY
Phillip Morris cost share
TN cost share for a green house
Big baler, tobacco barn
Burley co-op housing
Field tiling to drain the water from my fields
Tobacco settlement funds

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

Response	N	%
Yes	8	1.9
No	424	98.2

31. Types of other tobacco listed by respondents

Responses
Cigar
Dark tobacco
Flue cured

## VI. FERTILIZER AND CHEMICALS

32. When do you purchase the majority of fertilizer for your burley tobacco crop?

Response	N	%
Winter(December, January, February)	62	14.5
Spring (March, April, May)	329	77.1
Summer (June, July, August)	33	7.7
Fall (September, October, November)	3	0.7

33. Average amount of fertilizer used on your burley tobacco crop

Fertilizer	N	Min	Max	Mean	Median	Std
Nitrogen	250	100	389	210	200	69
Phosphorus	248	0	460	134	150	83
Potassium	248	0	600	222	225	102

34. Did you use the following insecticides on burley tobacco by 2010?

Insecticides	Responses	N	%
Acephate	Yes	89	20.9
	No	337	79.1
Actara	Yes	3	0.7
	No	423	99.3
Admire	Yes	218	51.2
	No	208	48.8
Alias 2F	Yes	7	1.6

Insecticides	Responses	N	%
	No	419	98.4
Advise 2F	Yes	2	0.5
	No	424	99.5
Assail	Yes	1	0.2
	No	425	99.8
Belt	Yes	-	-
	No	426	100.0
Nuprid	Yes	26	6.1
	No	400	93.9
Widow 2F	Yes	8	1.9
	No	418	98.1
Capture	Yes	26	6.1
	No	400	93.9
Coragen	Yes	11	2.6
	No	415	97.4
Denim	Yes	10	2.4
	No	416	97.7
DiPel	Yes	73	17.1
	No	353	82.9
Endosulfan	Yes	8	1.9
	No	418	98.1
Fulfill	Yes	2	0.5
	No	424	99.5
Grizzly	Yes	2	0.5
	No	424	99.5
Karate	Yes	1	0.2
	No	425	99.8
Lambda Cy	Yes	5	1.2
	No	421	98.8
Lannate	Yes	-	-
	No	426	100
Lepinox	Yes	-	-
	No	426	100
Lorsban	Yes	13	3.1
	No	413	97.0
Mocap	Yes	-	-
	No	426	100
Tracer	Yes	8	1.9
	No	418	98.1

Insecticides	Responses	N	%
Torrent	Yes	9	2.1
	No	417	97.9
Orthene	Yes	257	60.3
	No	169	39.7
Platinum	Yes	23	5.4
	No	403	94.6
Provado	Yes	-	-
	No	426	100
Sevin	Yes	14	3.3
	No	412	96.7
Silencer	Yes	2	0.5
	No	424	99.5
T-Moxx	Yes	-	-
	No	426	100
Warrior I	Yes	20	4.7
	No	406	95.3
Warrior T	Yes	8	1.9
	No	418	98.1
Warrior II	Yes	17	4.0
	No	409	96.0

35. Did you use the following fungicides on burley tobacco by 2010?

Fungicides	Responses	N	%
Acrobat	Yes	24	5.6
	No	402	94.4
Actigard	Yes	30	7.0
	No	396	93.0
Agrimycin 17	Yes	19	4.5
	No	407	95.5
Dithane	Yes	58	13.6
	No	368	86.4
Firewall	Yes	1	0.2
	No	425	99.8
Forum	Yes	-	-
	No	426	100
Manzate	Yes	10	2.4
	No	416	97.7
Penncozeb	Yes	1	0.2
	No	425	99.8

Fungicides	Responses	N	%
Quadris	Yes	69	16.2
	No	357	83.8
Ridomil Gold/ Ultra Flourish	Yes	135	31.7
	No	291	68.3
Streptomycin	Yes	29	6.8
	No	397	93.2
Terramaster	Yes	93	21.8
	No	333	78.2

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

Sucker control chemicals	Responses	N	%
DNA(such as Butralin, Prime+, Drexalin)	Yes	174	40.9
	No	252	59.1
MH (such as Royal MH-30, Fair Plus)	Yes	359	84.3
	No	67	15.7
Fatty Alcohol (such as Sucker Plucker, Off-shoot T, Fair 85)	Yes	45	10.6
	No	381	89.4
Royal Tac M	Yes	1	0.2
	No	425	99.8
FluePro	Yes	2	0.5
	No	424	99.5
Stifle	Yes	1	0.2
	No	425	99.8

37. Did you use the following herbicides by 2010?

Herbicides	Responses	N	%
Acumen	Yes	5	1.2
	No	420	98.8
Aim	Yes	-	-
	No	426	100
Command	Yes	68	16.0
	No	358	84.0
Devrinol 50 DF	Yes	17	4.0
	No	409	96.0
Devrinol 2E	Yes	11	2.6
	No	415	97.4
Poast	Yes	30	7.0
	No	396	93.0

Herbicides	Responses	N	%
Prowl	Yes	197	46.5
	No	229	53.5
Spartan	Yes	140	32.9
	No	286	67.1
Tilam	Yes	3	0.7
	No	423	99.3

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

Nematicides/fumigants	Responses	N	%
Nemacur	Yes	-	-
	No	426	100
Telone II	Yes	1	0.2
	No	425	99.8
Telone C-17	Yes	1	0.2
	No	425	99.8
Vapam	Yes	1	0.2
	No	425	99.8

39. Did not use any of the above chemicals?

Responses	N	%
Yes	31	7.3
No	395	92.7

40. Types of other chemicals, growth hormones, etc. listed by respondents.

Other chemicals
Boro sol- liquid boron
MO-300
coron
nutri leaf water soluble
percplus 8oz on 1 acre
soy soap
sucker stuff
super sucker prime
tobacco starter
Big Leaf Racing Fuel
agri gro
nutrik 16oz on 1 acre
stealth/herbicides

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

Response	N	%
None	54	12.6
One	105	24.5
Two	173	40.3
Three or More	97	22.6

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

Response	N	%
Yes	300	71.9
No	117	28.1

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

Response	N	%
Yes	303	73.4
No	110	26.6

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

Response	N	%
None	219	52.6
One	121	29.1
Two	61	14.7
Three or More	15	3.6

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

Response	N	%
Yes	87	24.3
No	271	75.7

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

Response	N	%
Yes	114	31.7
No	246	68.3

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

Responses	N	%
None	8	1.9
One	378	87.5
Two	43	10.0
Three or More	3	0.7

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

Responses	N	%
None	126	29.9
Before transplanting	255	60.4
Within 10 days of transplanting	22	5.2
More than 10 days after transplanting	19	4.5

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

Responses	N	%
None	388	91.1
One	31	7.3
Two	7	1.6

## VII. STATES INCLUDED

State	N	%
FL	1	0.2
IN	19	3.9
KY	291	60.0
MO	8	1.7
NC	13	2.7
OH	44	9.1
PA	1	0.2
TN	88	18.1
VA	17	3.5
WV	3	0.6