Objective Tobacco Variety Description

Tobacco (Nicotiana tabacum L.)

TEMPORARY OR EXPERIMENTAL DESIGNATION: _____

VARIETY NAME: _____

NAME OF APPLICANT (S): _____

ADDRESS: _____

City:_____ **State:**_____ **Zip Code**: _____ **Country:** _____

INSTRUCTIONS: Place the appropriate number that describes the agronomic character of this variety on the lines below.

STANDARD VARIETIES AND CODE NUMBERS

1 = KY 14	2 = VA 509	3 = ms KY 14 X L8	4 = TN 90	5 = TN 86	6 = KT 204
7 = VA 309	8 = KY 171	9 = NL Madole	10 = KT D4	11 = DF 911	12 = KY 160

AREA OF ADAPTATION

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1. CLASS _____

1 = Burley 2 = Broad Leaf Dark Fire-Cured/Dark Air-Cured 3 = One Sucker Dark Air-Cured

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2. MATURITY (Transplant to 50% plants 1 fl.)(Select code from Standard Varieties listed above)

_____ No of days

_____ No. of days earlier than _____

Flowering same as _____

_____ No. of days later than _____

Maturity class _____

1=Early (MS KY 14 X L8, VA 309)
2=Medium (KY 14, KY 171)
3=Late (TN 90, NL Madole)
4=Very Late (TN 86, KT D4)

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3. PLANT HEIGHT (Select code from Standard Varieties listed above)

NORMAL TOPPED HEIGHT

_____ cm tall

_____ cm shorter than _____

Height same as _____

_____ cm taller than _____

NOT TOPPED - HEIGHT TO CROWFOOT

_____ cm tall

_____ cm shorter than _____

Height same as _____

_____ cm taller than _____

Height Class ____

1=Short (ms KY 14 X L8, NL Madole)
2=Medium (KY 14, KY 171)
3=Tall (KT 204, KT D4)

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4. LEAF LENGTH (At leaf maturity, counting harvestable leaves from the bottom of plant, select code from Standard Varieties listed above)

LENGTH 5TH LEAF

_____ cm length

_____ cm shorter than _____

length same as _____

_____ cm longer than _____

LENGTH 10TH LEAF

_____ cm length

_____ cm shorter than _____

length same as _____

_____ cm longer than _____

LENGTH 15TH LEAF

_____ cm length

_____ cm shorter than _____

length same as _____

_____ cm longer than _____

Leaf Length Class (10th leaf or center of plant) ____

1=Short (KY 14, VA 309)
2=Medium (TN 90, NL Madole)
3=Long (KT 204, KT D4)

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5. LEAF WIDTH (At leaf maturity, counting harvestable leaves from the bottom of plant, select code from Standard Varieties listed above)

WIDTH 5TH LEAF

_____ cm width

_____ cm narrower than _____

width same as _____

_____ cm wider than _____

WIDTH 10TH LEAF

_____ cm width

_____ cm narrower than _____

width same as _____

_____ cm wider than _____

WIDTH 15TH LEAF

_____ cm width

_____ cm narrower than _____

width same as _____

_____ cm wider than _____

Leaf Width Class (10th leaf or center of plant) ____

1=Very Narrow (KY 160)
2=Narrow (KY 14, NL Madole)
3=Medium (TN 90, KY 171)
4=Broad (ms KY 14 X L8, KT D4)

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6. LEAF ANGLE (Upper angle between stalk and leaf when turgid)

Leaf Angle Class (10th leaf or center of plant) ____

1=Upright (TN 86, KT D4)
2=Medium (KY 14, KY 171)
3=Drooping (ms KY 14 X L8, NL Madole)

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7. LEAF YIELD (Select code from Standard Varieties listed above)

_____ lbs/A yield

_____ % less yield than _____

yield same as _____

_____ % more yield than _____

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8. LEAF NUMBER (Not including 2 ground leaves) (Select code from Standard Varieties listed above)

TOPPED NORMAL	**NOT TOPPED** (No. of nodes from 1st leaf to crowfoot)
_____ No. per plant	_____ No. per plant
_____ No. leaves less than _____	_____ No. leaves less than _____
Leaf no. same as _____	Leaf no. same as _____
_____ No. leaves more than _____	_____ No. leaves more than _____

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9. INTERNODE AND STALKS (Plants topped normal) (Select code from Standard Varieties listed above)

_____ mm length

_____ mm shorter than _____

internodes same as _____

_____ mm longer than _____

Internode Length Class _____	**Stalk Diameter Class** _____
1=Short (TN 86, KT D4)	1=Small (TN 90, NL Madole)
2=Medium (KY 14, NL Madole)	2=Medium (KT 204, KY 171)
3=Long (ms KY 14 X L8, VA 309)	3=Large (TN 86, DF 911)

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10. FLOWER COLOR

1=White
2=Pink
3=Red
4=Other (Specify)_____

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11. DISEASE (0 = Not Tested, 1 = Susceptible, 2 = Low resistant, 3 = Moderate resistance, 4 – High resistance)

___ Black Shank (Phytophthora parasitica var. nicotianae race 0)
___ Black Shank (Phytophthora parasitica var. nicotianae race 1)
___ Black Root Rot (Thielaviopsis basicola)
___ Blue Mold (Peronospora tabacina)
___ Wildfire (Pseudomonas tabaci)
___ Fusarium Wilt (F. oxysporum var. nicotianae)
___ Potato Virus Y (Vein banding)
___ Tobacco Vein Mottling Virus (TVMV)
___ Tobacco Mosaic Virus (TMV)
___ Tobacco Etch Virus
___ Other (Specify) _____

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12. LEAF CHEMISTRY (Give data for application AND two Standard Varieties)

Standard Variety No. 1	**Standard Variety No. 2**
% Nicotine _____	% Nicotine _____
% Total Alkaloids _____	% Total Alkaloids _____
Ratio of Secondary to Total Alkaloids_____	Ratio of Secondary to Total Alkaloids _____
% Nicotine Conversion _____	% Nicotine Conversion _____

Applicant Variety

% Nicotine _____ ; Acceptable Range (Based on Standard Checks)_____ to _____

% Total Alkaloids _____

Ratio of Secondary to Total Alkaloids_____ (Note: Acceptable Limit = **12%**)

% Nicotine Conversion _____ (Note: Acceptable Limit = **6%**)

13. VARIETY RESEMBLANCE (List variety that most closely resembles the application variety for each of the following characteristics:)

CHARACTERISTICS	**VARIETY**	**CHARACTERISTICS**	**VARIETY**
Flowering	_____	Leaf tip shape	_____
Leaf length	_____	Venation pattern	_____
Leaf width	_____	Leaf surface	_____
Leaf carriage	_____	Leaf margin	_____
Petiole angle	_____	Leaf color	_____
Leaf shape	_____	Plant form	_____

14. COMMENTS (Describe all characters and conditions that cannot be adequately described in this form (lodging resistance, disease rating compared to standard checks, variant plant types, etc.)