PRODUCTION TECHNOLOGY FOR NEUTRAL FLAVOR VIRGINIA TOBACCO CY 2015-2016

TECHNOLOGY COMPONENT			DETAILS
1. Variety		Black Shank	Fusarium Wilt
5	Reams 266	R	R
	DH 48	R	
	Coker 254		
	Golden Harvest		
	Giant Coker		
	NC2326		
	Note: R- resistan	nt	
2. Sowing Date	September to O	ctober 30	
3. Transplanting Cut-off Date	December 15		
4. Transplanting Method	Furrow		
5. Distance of Planting	0.80m-1.00 m x 0).50 m	
6. Number of plants per ha	20,000 - 25,000		
7. Replanting	Within 5 days afte	er transplanting (D	AT)
8. Fertilizer Rate		N= 46-62	
(kg N-P ₂ O ₅ -K ₂ O/ha)		$P_2O_5 = 36-38$	
(K ₂ O= 48-75	
9. Fertilizer Source	Quantity		Method and Time
& Time and Method	Combination 1		
	5 bags	organic fertilizer	basal, single band along furrows, 0 DAT
	5 bags	10-15-20	basal, single band along furrows, 0 DAT
	1 bag	0 - 0 - 50	basal, single band along furrows, 0 DAT
	2 bags	21 - 0 - 0	sidedress, single band, 21-28 DAT
	Combination 2		
	5 bags		basal, single band along furrows, 0 DAT
	4 bags	10 -18-24	basal, single band along furrows, 0 DAT
	1 bag	0 - 0 - 50	basal, single band along furrows, 0 DAT
	4 bags	21 - 0 - 0	sidedress, single band, 21-28 DAT

TECHNOLOGY COMPONENT	DETAILS												
10. Watering,	Watering Method and Schedule												
Irrigation Method &	 1st	at transplanting (@ 1 li/plant										
Schedule	2nd	5 DAT @ 1 li/pla	int										
	3rd	14 DAT @ 2-3 li	/plant										
	Irrigation												
	1st	21 to 28 DAT, a	fter hilling-up, alter	nate furrows									
	2nd	31 to 42 DAT, in alternate furrows											
	3rd	after first priming, all furrows;											
	4th	after 3rd priming, all furrows;											
	5th	after the 5th prim	ning depending on s	soil moisture									
Agents (CPAs)	on tobacco, red when the insect	uce farmers' exp or population is INSECT CUTWORM BUDWORM APHIDS LOOPERS LEAF MINERS KATYDID	osure to CPAs, a beyond ETL. Economic Tresh 5 out of 100 plant 2 budworm larvae 5 out 50 plants ha Treat when 10 %	nd, prevent i old Level (E ts (5%) with re in 4 random ave at least 5 or more of the vdids are see	ecent cutworm n sample groups of 0 aphids in a leaf e plants checked ar	evelopment, spra 10 plants each e infested with live	y only worms of an	y size.					
	GROWTH STAGE	ACTIVE INGREDIENT	BRAND NAME	TOXICITY CATEGORY	MODE OF ACTION	TARGET PESTS	DOSAGE PER 16 L	PRODUCT VOLUME	NO. OF SPRAYING S	Maximum Tankload/(L for seedbed) per ha	PRE- HARVEST INTERVAL (days)	RE- ENTRY PERIOD (hours)	
		Propamocarb HCI	Proplant, Previcur-N	IV	systemic	Pythium spp							
	Seedling	•	Blackhawk		contact, systemic, stomach		30ml	57ml		1-2 liter/10		24	
		Acephate		111	Stornaon								

IOLOGY ONENT	DETAILS													
GROWTH S	TAGE	ACTIVE INGREDIENT	BRAND NAME	TOXICITY CATEGORY	MODE OF ACTION	TARGET PESTS	DOSAGE PER 16 L	PRODUCT VOLUME	NO. OF SPRAYING S	Maximum Tankload/(L for seedbed) per ha	PRE- HARVEST INTERVAL (days)	RE- ENTR PERIC (hours		
		Acephate	Blackhawk	. 111 .	contact, systemic, stomach	cutworm, budworm,loopers	30ml	120ml	1	4		24		
Vegetative (DAT)	0 - 34		Compete 75 SP		systemic	cutworm, budworm,loopers	20g	80g	1	4	3	24		
		Chlorantraniliprole	Prevathon 5 SC	IV	systemic	cutworm, budworm,loopers	25ml	140ml	1	7	3	12		
Early Maturi 50 DAT)	Early Maturity (35 – 50 DAT) OR	Bt + Pyridalyl	Dipel + Pleo	IV	systemic	cutworm, budworm,loopers	30g+20ml	330g+220ml	1	11				
			Compete 75 SP	III	systemic	cutworm, budworm,loopers, aphids	20g	220g	1	11	3	24		
		Acephate	Blackhawk	III	contact, systemic, stomach	cutworm, budworm,loopers, aphids	30 ml	330 ml		11		24		
	OR	Flubendiamide	Fenos 480 SC	IV	systemic	cutworm, budworm	4ml	50-75ml	1	13-19	5	24		
Maturity (60 until the third		Bt + Pyridalyl	Dipel + Pleo	IV	systemic	cutworm, budworm,loopers	30g+20ml	360g+240ml	1	12				
fourth harves depending o insect popula	n	Indoxacarb	Steward 30 WDG	III	contact, stomach, ovicidal	cutworm, budworm,loopers, leaf miners	4g sachet	40g=10 sachet	1	10	7	12		
								Total Ta	nkloads	48-56				

TECHNOLOGY COMPONENT	DETAILS								
12. Harvesting	Harvest mature leaves as indicated by the following: - leaf color changes from light green to yellow green - yellowing of the leaf tips - midrib turns light green								
	Important: Haul leaves immediately after harvest and unload under the shade, using cheese cloth, bamboo slats, C48 Carton, and buri "silag" as matting material.								
	File the leaves upright with the butt ends down Sort, stick, pile the sticked leaves properly in shaded area and hang inside the barn within the day Start firing within 12 hours after hanging/loading.								
13. Sorting Before Sticking	fore Harvest mature leaves as indicated by the following: Ripeness Injury Length								
14. Flue- Curing	Inside dimension	L= 3.0 m; W= 3.8 m; H= 4.5 m							
Barn Dimension and	Height of first tier	1.5 m - 1.8m							
Fixtures (for 0.50 ha	No. of tiers	5							
farm)	Distance between tiers	0.75 m							
	Number of bottom vents	8 (2 per side)							
	Size of bottom vents	L=30 cm; W=15 cm, with adjustable up and down cover							
	Top Vent	Ridge type; L = 3.6 m: W= 0.3 m							
	Ratio of vent to barn volume	1:03							
	Capacity: 1. For 23,000 plant population per hectare or 11,500 plants per 0.5 ha Number of sticks per load - 750 Stick length - 60 cm Number of leaves per stick - 46 Distance between pole - 10 cm								
	 For 23,810 plant population or 11,905 plants per 0.50 ha Number of sticks per load- 812, add 2 columns in between the ridge and the top most tier 								

TECHNOLOGY COMPONENT	DETAILS
Furnace Type	Modified venturi furnace
	Modified Anawang furnace
Non-traditional or Additional fuel	Corn Cob for Modified Anawang Furnace
Fixture	Removable chicken wire mesh 15 cm below the leaves on the first tier
	Insulator like C48 carton in case of barn with GI wall.
	Psychrometer to monitor temperature and relative humidity inside the barn.
	Curing graph/chart guide
15. Classification of	The cured leaves must be classified based on the following:
Cured Leaves	Leaf position
	Color
	Length
	Injury/damage
16. Straight Laid Open Bale (SLOB) System	 Size of Bale Box : Size varies according to the requirement of the company in relation to the size of their grading ramp but the weight should not be more than 50 kg. Place 4 pieces of abaca twine inside the baling box just enough to tie the leaves in the box. Put leaves of similar size and quality in a bale. Tie leaves before removing the bale box.
	REMINDER: KEEP THE MOISTURE CONTENT OF THE LEAVES AT 18% OR LESS
	REFER TO ANNEX "I" FOR THE ELIMINATION OF NON-TOBACCO RELATED MATERIALS (NTRM)