PRODUCTION TECHNOLOGY FOR IMPROVED FLAVOR VIRGINIA TOBACCO CY 2015-2016

TECHNOLOGY COMPONENT					DET	AILS				
1. Variety		Bacterial Wilt	RKN	Black Shank	Fusarium Wilt	TMV/CMV				
	NC2326	S	S	LT		S				
	K326									
	PVH 50	R								
	PVH 2254	HT	R	S	S	R				
	PVH 2299	MT	R	S	S	R				
	CC67	R	R	R		R				
		nt; HT- highly tole	rant; MT- mode	erately tolerant; S	S- susceptible; L7	- low tolerant				
2. Sowing Date	September 15									
						ne the suitability of	the area			
	for seedbe	dding especially i	n low-lying area	as that are prone	to flooding.					
3. Transplanting Cut-of	December 15									
Date										
4. Transplanting Metho	d Furrow/Ridge									
5. Distance of Planting	1.2m x 0.45-0.5	m	1.1m x 0.45-0).5m						
6. Number of Plants per	r i 18,00	0	20,0	00	ULPI's revised p	plant population is 1	6,667			
7. Replanting	Within 5 days af	ter transplanting								
8. Fertilizer Rate			-							
(kg N-P ₂ O ₅ -K ₂ O/ha)	ULPI	103-72-146								
	-	82-72-146								
	TMI	88.5-92-150								
	PMFTC	87-81-108								
	FINIFIC	07-01-100								
9. Fertilizer Source & T	in Quantity	Rate & Source		Method and Time	9			 	 	
and Method of Applica										
	ULPI									
		1	haad aingle l	band along furrov	vs 0 DAT					
103-72-146	8 bags	10-18-24								
103-72-146	2 bags	0-0-50	basal, single l	band along furrov	vs, 0 DAT					
103-72-146			basal, single l sidedress, sir		vs, 0 DAT DAT					

TECHNOLOGY COMPONENT			DETAILS					
	Quantity	Rate & Source	Method and Time					
	TMI combination							
82-72-146	8 bags	10-18-24	basal, single band along furrows, 0 DAT					
	2 bag	0-0-50	basal, single band along furrows, 0 DAT					
	4 bags	21-0-0	sidedress, single band along furrows, 18-21 DAT					
	TMI combinatio	on <u>2</u>						
88.5-92-150	4 bags	18-46-0	basal, single band along furrows, 0 DAT					
	3 bag	0-0-50	basal, single band along furrows, 0 DAT					
	3 bag	0-0-50	sidedress, single band along furrows, 18-21 DAT					
	5 bags	21-0-0	sidedress, single band along furrows, 18-21 DAT					
	PMFTC							
87-81-108	9 bags	10-18-24	basal, single band along furrows, 0 DAT					
	4 bags	21-0-0	sidedress, spot application per hill followed by hilling-up, 14 DAT					
10. Watering, Irrigation	Watering							
Method & Schedule	1st	at transplanting	@ 1 li/nlant					
	2nd	5 DAT @ 1 li/pla						
	3rd	14 DAT @ 2-3 li						
	Irrigation							
	1st	18 to 28 DAT. a	Il furrows, 15% water level of the ridge after re-ridging					
	2nd	25 to 38 DAT, in alternate furrow at 50% water level of the ridge						
	3rd		all furrows at 50% water level of the ridge					
	4th		g, all furrows at 20% water level of the ridge					
	5th		g, all furrows at 10-15% water level of the ridge					
	6th		ning depending on soil moisture					

TECHNOLOGY COMPONENT	DETAILS												
	NOTE: THE FARMERS ARE ENCOURAGED TO APPLY CPAs ONLY AS NEEDED. To avoid CPA residues on tobacco, reduce farmers' exposure to CPAs, and, prevent insect resistance development, spray only when the insect or population is beyond ETL.												
	NOTE: REFER T	INSECT CUTWORM BUDWORM APHIDS LOOPERS LEAF MINERS KATYDID	5 out of 100 plan 2 budworm larva 5 out 50 plants h Treat when 10 % Treat when 5 katy	e in 4 random ave at least 50 or more of the ydids are seen	cent cutworm sample grou aphids in a plants check per 50 plants	ıps of 10 plants e leaf ked are infested v s.	vith live wor	-					
	GROWTH STAGE	ACTIVE	BRAND NAME	TOXICITY CATEGORY	MODE OF ACTION	TARGET PESTS	DOSAGE PER 16 L	PRODUCT	NO. OF	Maximum Tankload/(L for seedbed) per ha	PRE- HARVEST INTERVAL (days)	RE-ENTRY PERIOD (hours)	
		Propamocarb HCI	Proplant, Previcur-N	IV	systemic	Pythium spp				0			
	Seedling	Acephate	Blackhawk		contact, systemic,		30ml	57ml		1-2 liter/10		24	
			Compete 75 SP		systemic	cutworm	20g	37.5g		sqm bed	3	24	
		Acephate	Blackhawk		contact, systemic,	cutworm, budworm,loopers	30ml	120ml	1	4		24	
	Vegetative (10 - 34		Compete 75 SP	111	systemic	cutworm, budworm.loopers	20g	80g	1	4	3	24	
	DAT)	Chlorantraniliprole	Prevathon 5 SC	IV	systemic	cutworm, budworm,loopers	25ml	140ml	1	7	3	12	
	Early Maturity (35 – 50 DAT)	Bt + Pyridalyl	Dipel + Pleo	IV	systemic	cutworm, budworm, loopers	30g+20ml	330g+220m	1	11			
	OR		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,	4ml	50-75ml	1	13-19	5	24	

TECHNOLOGY COMPONENT												
	GROWTH STAGE	ACTIVE INGREDIENT	BRAND NAME	TOXICITY CATEGORY	MODE OF ACTION	TARGET PESTS	DOSAGE PER 16 L	PRODUCT VOLUME	NO. OF SPRAYINGS	Maximum Tankload/(L for seedbed) per ha	PRE- HARVEST INTERVAL (days)	RE-ENTRY PERIOD (hours)
	Maturity (60 DAT) until the third or	Bt + Pyridalyl	Dipel + Pleo	IV	systemic	cutworm, budworm,loopers	30g+20ml	360g+240 ml	1	12	(***)*)	
	fourth harvest depending on insect population and crop	Indoxacarb	Steward 30 WDG	111	contact, stomach, ovicidal	cutworm, budworm,loopers, leaf miners	4g sachet	40g=10 sachet	1	10	7	12
								Total	ankloads	48-56		
	"TOPPING befo	ore full bloom a	nd field sanitatio	n are importa	nt IPM strate	gies that can su	stainably r	educe ins	ect infestati	on on toba	ссо".	
12. Topping Time	Company TMI ULPI PMFTC	# of leaves 18-20 16-18 18-22	ti 30% of total plan bud top 50% of total plan		C							
13. Suckercide (Choose any of the	FLUMEX se)		25 ml Flumex to 98 solution per plant									
	<u>ART 78</u>		ctare nl ART 78 to 30 ml ution per plant with		er topping							
14. Harvesting		ded, do not wait ges from light gre e leaf tips	ated by the follow until topping is dor een to yellow green	าย								
	Carton and "s File the leaves u	ilag" buri as mat pright with the bu			, using chees	e cloth, bamboo s	lats, C4					

TECHNOLOGY	DETAILS							
COMPONENT	si Inside dimension L= 3.0 m; W= 3.8 m; H= 4.5 m							
15. Curing Barn Dimensi								
	Height of first tier No. of tiers	1.5 m - 1.8m 5						
	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	1:30						
	Number o Stick leng Number o Distance l 2. For 20,00 Number o Stick leng Number o	f leaves per stick - 46 between pole - 10 cm 10 plant population per hectare or 10,000 plants per 0.5 ha f sticks per load - 750						
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							
16. Sorting Before Sticking	Harvest mature leaves as indica Ripeness Injury Length	ated by the following:						

TECHNOLOGY COMPONENT	DETAILS						
17. Classification of Cu	Ine The cured leaves must be classified based on the following:						
Leaves	Leaf position						
	Color						
	Length						
	Injury/damage						
18. Straight Laid Open	Size of Bale Box :						
Bale (SLOB) Syster							
	weight should not be more than 50 kg.						
	Pre classify the leaves by leaf position						
	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)						