

**Table 3. Viruses found on tobacco crops in the field or in nurseries, grouped by taxonomic assignment**

Nucleic acid	Family	Acronym	Name	Mean of spread, vector	
ssRNA	Potyviridae	PVY	Potato Y potyvirus	Non-persistent, aphids	
		TEV	Tobacco etchpotyvirus	Non-persistent, aphids	
		TVMV	Tobacco vein mottling potyvirus	Non-persistent, aphids	
		CDV	Datura colobmian potyvirus	Non-persistent, aphids	
		TVBMV	Tobacco vein-banding mosaic potyvirus	Non-persistent, aphids	
		PVMV	Pepper veinal mottle potyvirus	Non-persistent, aphids	
	Bomoviridae	CMV	Cucumber mosaic cucumovirus	Non-persistent, aphids	
		PSV	Peasnut stunt cucumovirus	Non-persistent, aphids	
		TSV	Tobacco streak ilarvirus	Thrips ( <i>Thrips tabaci</i> , <i>Frankliniella</i> spp.), from the pollen of alternate hosts.	
	Comoviridae	AMV	Alfaalfa mosaic alfamovirus	Non-persistent, aphids	
		TRSV	Tobacco ringspot nepovirus	Nematodes - and also, non-specifically, insects and mites	
			ToRSV	Tomato ringspot nepovirus	Nematode <i>Xiphimena americanum</i> .
		Tombusviridae	TMoV (TBTv)	Tobacco mottle umbravirus / (Tobacco bushy top umbravirus)	Requires TVDV for inducing the rosette disease. Transmitted by aphids. Requires TVDV for aphid transmission.
	TYVV		Tobacco yellow vein umbravirus	Persistent, aphids, requiring tobacco yellow vein assistor luteovirus for transmission.	
	TNV		Tobacco necrosis necrovirus	<i>Olpidium brassicae</i>	
		Virgaviridae	TRV	Tobacco rattle tobavirus	Nematodes ( <i>Trichodorus</i> , <i>Paratrichodorus</i> )
	unassigned		TMV	Tobacco mosaic tobamovirus	Mechanic (not involving a vector)
			RMV	Ribgrass mosaic tobamovirus	Mechanic (not involving a vector)
			TMGMV	Tobacco mild green mosaic tobamovirus	Mechanic (not involving a vector)
			PVX	Potato X potexvirus	Mechanic (not involving a vector)
			TVDV	Tobacco vein distorting (?) luteovirus	Persistent, aphids.
TYVAV			Tobacco yellow vein assistor luteovirus	Persistent, aphids.	
TYNV			Tobacco yellow net luteovirus	Persistent, aphids.	
TNDV			Tobacco necrotic dwarf luteovirus	Persistent, aphids ( <i>Myzus persicae</i> )	
ssRNA, -	Bunyaviridae	TSWV	Tomato spotted wilt tospovirus	Persistent, thrips	
circular ssDNA	Geminiviridae	TYDV / TbYDV	Tobacco yellow dwarf mengeminivirus / Tobacco yellow dwarf mastrevirus	Persistent, leafhopper <i>Orosius argentatus</i>	
		TLCV / TbLCV	Tobacco leaf curl bigeminivirus / Tobacco leaf curl begomovirus	Persistent, <i>Bemisia tabaci</i> and other whiteflies	
		TbCSV	Tobacco curly shoot begomovirus		
		TbASV	Tobacco apical stunt begomovirus		
		BCTV	Beet curly top hybrigeminivirus	Persistent, leafhoppers (Cicadellidae)	
dsRNA	unassigned	TStV	Tobacco stunt varicosavirus	<i>Olpidium brassicae</i>	
	Reoviridae	WTV	Clover wound tumor phytoreovirus	Agallian leafhoppers. Multiplies in insect hosts.	