

	<u>'</u> [	Industry strategies for the control of Virus Yellows in Sugar Beet						
		2020	2022	20	24	2026	5 2028	2030
Support traditional seed breeding programmes		First partially VY tolerant variety "Maruscha KWS" available on the industry Recommended (seed) List (yield drag compared to elite varieties). Partial tolerance to Beet Mild Yellowing Virus (BMYV).			Additional varieties with partial & Beet Yellows Virus (BYV) tole but with continued yield drag rel the susceptible alternative	lative to	Continued development and introduction of parti tolerant/resistant varieties with less yield drag compare varieties onto the industry Recommended List.	ed to elite
Gene Editing	İ	Genotype/phenotype evaluation, data mining and gene mapping towards identification of genes to be silonced			pilot edits ahead of trial-scale volumes. by to ensure VY resistance expresses in detrimental traits. Escalate to field-trials e performance in field conditions.		Multiplication into commercial volumes ahead of progress through National List and Recommended List trials.	
Improved seed germination	i	Improved knowledge exchange to optimise mature plant resistance by advancing crop development to 12-leaf stage. Communicating best practice on soil health, cultivations & drill operations.			Improved pellet coatings to aid germination and faster crop establishment. Assessment of soil and foliar nutrient/microbiological applications to advance early leaf development. Development of precision nutrient application techniques such as placement.			
Innovative grower practices and IPM		Technical support to drive knowledge exchange to improve crop husbandry and hygiene measures, including development and application of Integrated Pest Management (IPM).			Further testing of evolving & novel IPM approaches to ensure robust strategies can be applied in the field effectively.			
Sustainable spray programme		Flonicamid and acetamiprid fully-approved. Emergency Authorisations for sustainable 3-spray programmes.			Work with commercial companies to trial new aphicides under field conditions towards full approval of a 3-5 established sustainable spray programme.			
Cover crops		& camouflage methods can deter aphids cover/compan		rials exploring the merits of alternative ion crop species and optimised means of mpanion cropping benefit delivery.		Work with commercial companies to deliver companion/cover cropping products to growers capable of deterring aphid pressure in sugar beet plants.		
Seed treatments		Cruiser derogation to allow for development of practices / seed varieties / sustainable sprays. Continued evaluation of alternative seed treatments and targeted preventative chemistry/biology capable of delivering young plant protection whilst encouraging beneficials.						