



Cavity Spot - Industry Perspective

Colin Noble

Vegetable Consultancy Services Ltd UK

Cavity Spot



- Factors increasing risk
- Control measures
- Crop monitoring
- Identification challenges
- Metalaxyl update



Risk Factors



Very complex interactions

Low soil pH

Crop rotation 7 – 8 yrs. (Poly - Straw)

Reduced plant vigour/ crop stress

Irrigation onto warm soils

Poor drainage /field low points

Control Measures



Field selection (especially storage crops)

Try to address pH early (6.5 -7) watch for Scab risk

Monitor and maintain calcium levels (soil test)

Variety selection CS tolerance

If approved apply SL567A @1 TL with moisture

Avoid heavy irrigation on warm soils July/Aug

Regular mature crop sampling

Varieties



Vegetable Consultancy Services (UK) Ltd

Carrot Variety x Cavity Spot Trial - 2020

Variety	Plant Vigour 0 - Dead 10 - V. Vigorous 01/09/2020	Population (plants/m2) 30/06/2020	Gross Yield (t/ha) 19/01/2021	Cavity Spot 0 - None 10 - Severe 20/01/2021	Root Virus Symptoms 0 - None 10 - Severe 20/01/2021	Carrot Fly 0 - None 10 - Severe 20/01/2021
1	4.75	100.74	48.20	0.00	1.00	1.25
2	4.50	99.75	52.64	0.00	1.75	2.25
3	6.00	94.95	55.63	0.00	2.00	2.25
4	6.25	111.82	56.61	0.00	0.25	1.50
9	4.50	134.48	56.35	0.00	2.50	1.00
10	5.00	131.53	57.61	0.00	1.50	1.50
13	4.00	100.49	44.61	0.00	3.00	1.50
20	4.00	115.27	47.40	0.00	1.50	1.75
21	4.00	120.44	50.90	0.00	3.25	1.75
22	4.25	108.25	47.35	0.00	3.25	1.75
26	1.75	72.66	19.33	0.00	1.00	1.00
5	5.00	98.15	48.87	0.25	2.50	1.75
6	4.75	144.70	48.78	0.25	2.75	2.50
18	5.75	120.57	55.42	0.25	1.00	1.75
19	5.75	135.22	47.30	0.25	2.25	1.75
17	4.00	105.67	42.68	0.50	1.25	2.50
23	5.75	77.71	59.29	0.50	0.75	2.50
Industry Standard Control Variety	4.50	104.93	46.79	0.50	2.75	1.25
24	5.00	75.12	55.65	0.75	0.25	2.75
8	3.50	98.77	48.00	1.00	2.00	1.50
14	5.00	128.33	57.04	1.00	1.50	1.50
25	6.00	75.12	59.25	1.50	0.25	3.00
11	8.00	102.96	71.55	2.00	1.00	2.50
12	6.50	105.91	69.88	2.00	1.50	1.50
16	3.50	114.04	65.64	2.00	3.00	1.50
7	3.50	94.83	52.54	2.50	1.50	1.50
15	5.50	115.52	67.59	3.00	1.00	3.00
Highly Susceptible (Cavity Spot) Control Variety	2.67	43.19	34.86	6.33	1.67	1.33

Crop Monitoring



Washed Sample Quality Report

Site/Grower	
Field	
Sample date	

Field Observations - main defects	
Washed Sample - main defects	

Washed Sample Records

Packable Roots and Minor defects	Count	Gms
No defects		
Scab mild (will polish)		

Major defects

Cavity spot		
Sclerotinia rots		
Crown rot other		
Liquorice, Crater, Misc rot		
Violet root rot		
Virus		
Frost damage		
Carrot fly		
Cutworm		
Rabbit, Hare, Mouse damage		
Scab severe		
Misshapes		
Stone indentation		
Fanging		
Green/red crown		
Growth splits		
Other rejects - pest misc		

Size Grade

<20mm		
20 - 35mm		
36mm - 45mm		
>45		

Total

200 roots
<10 acres
3-4wks!



Research



BCGA actively researching Cavity Spot since 2010

Monitoring 30 sites for 3 years Soil Moisture, Temp

Soil PCR test Pre drilling and Pre Storage

Warwick inoculation trials success

Covid + demise of AHDB has slowed R&D



SL567A Update



New formulation currently going through re-registration

Syngenta met PRCD, who asked for evaluation report, which should be available in December, to conduct a national evaluation and hopefully approval for 2024??

New Label will probably band spray only

Band Spray, doesn't need to be shielded – 80° nozzle

Good results band spraying in UK, capacity can be an issue

UK on use up period with new approval due 2024

Soil moisture key ideally @1TL

The background image is a collage of fresh produce. The top half features a large pile of parsnips on the left and a hand holding a bunch of green onions on the right. The bottom half shows a pile of onions in the center, with two large carrots on the right side. A semi-transparent text box is overlaid in the middle.

Thank you for your attention
Colin Noble VCS Ltd
colin.vcs@outlook.com