

Cavity Spot - Industry Perspective

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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

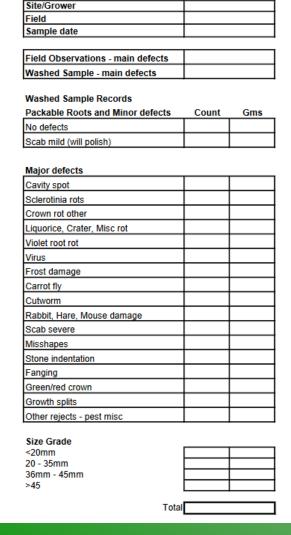
Carrot Variety x Cavity Spot Trial - 2020

	Plant Vigour 0 - Dead			Cavity Spot	Root Virus Symptoms	Carrot Fly
	10 - V.	Population	Gross Yield	0 - None	0 - None	0 - None
	Vigorous	(plants/m2)	(t/ha)	10 - Severe	10 - Severe	10 - Severe
Variety	01/09/2020	30/06/2020	19/01/2021	20/01/2021	20/01/2021	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





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

