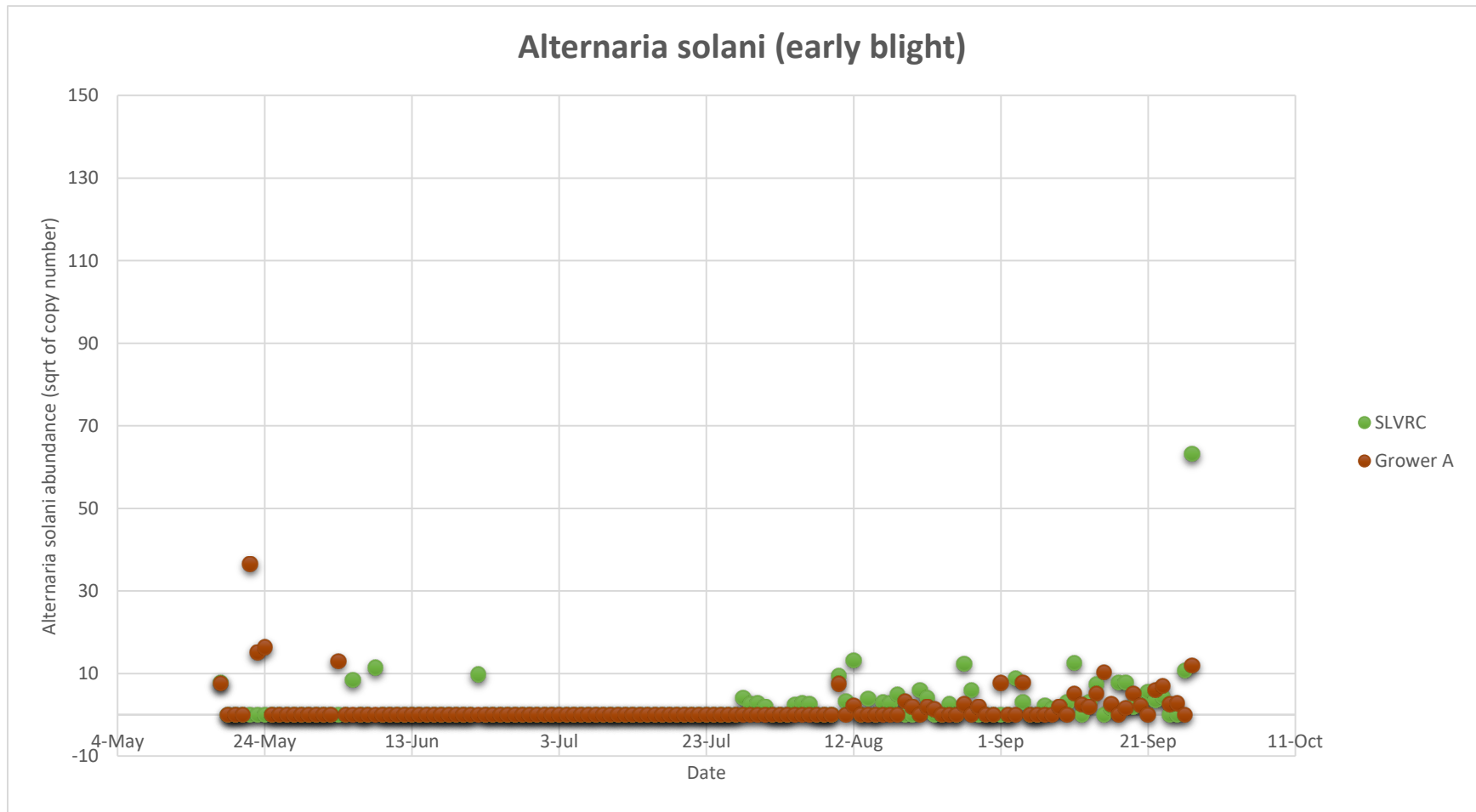
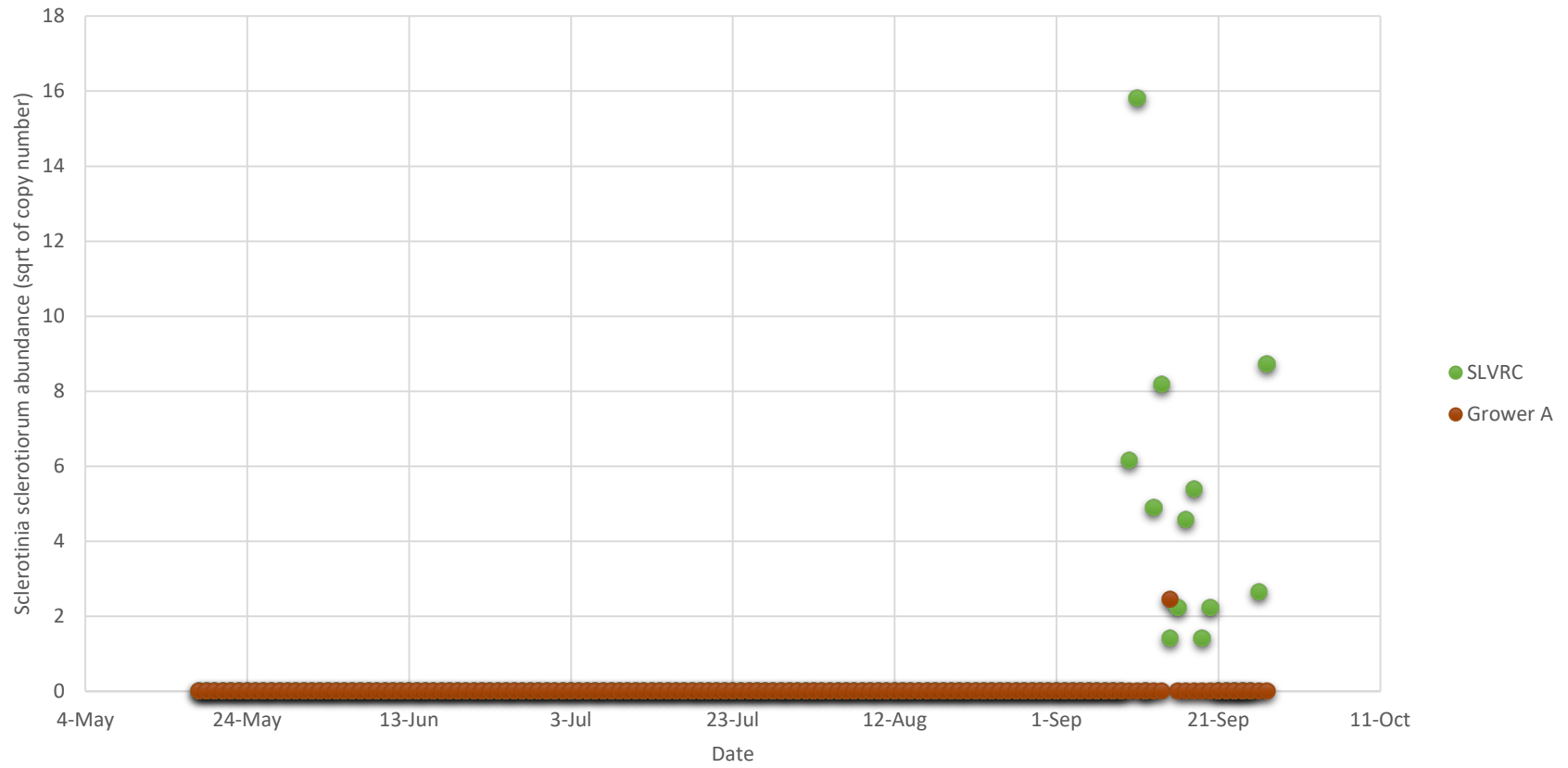


## Airborne potato pathogen detection for May 18 to September 27, 2021.

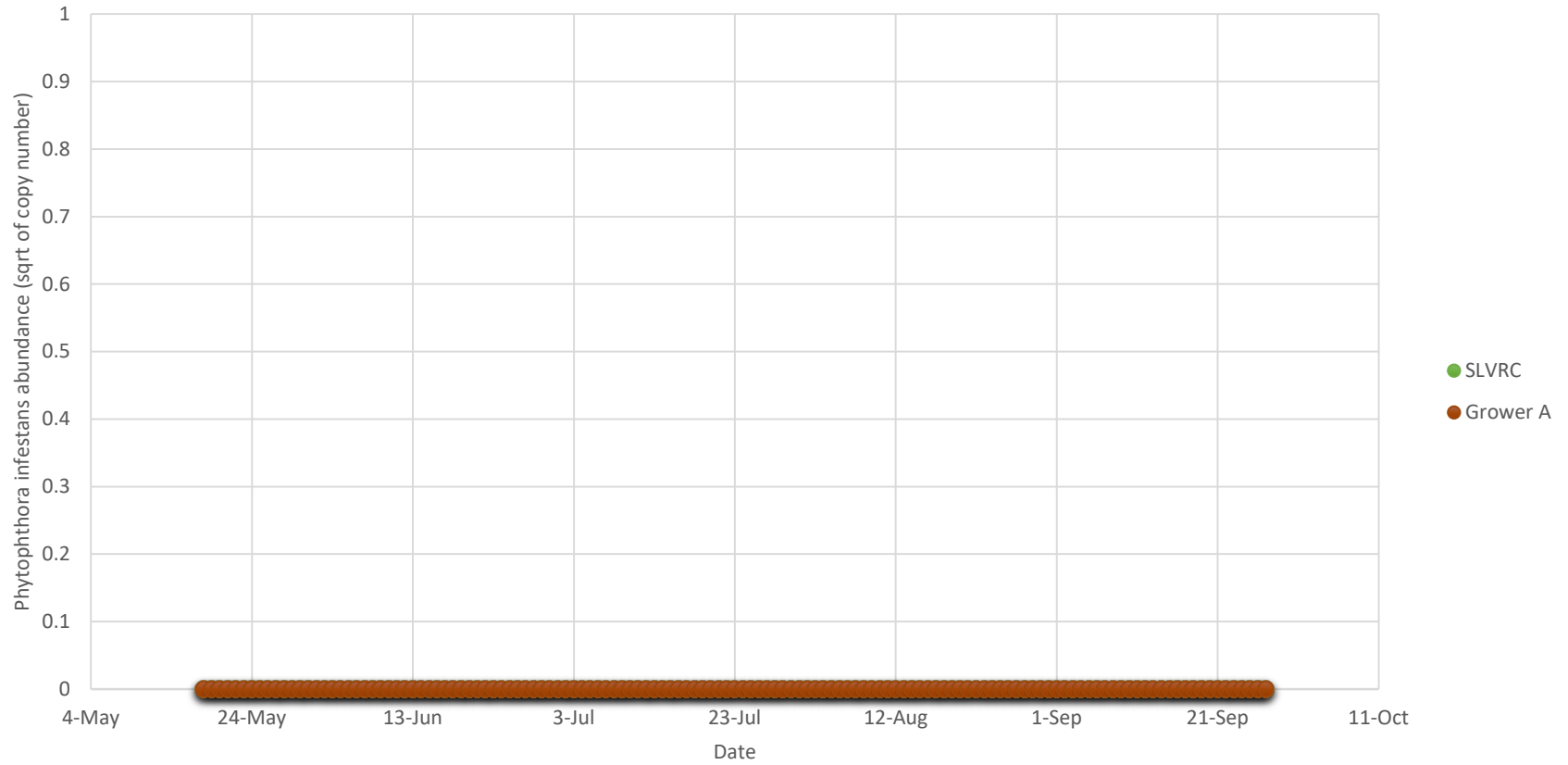
Samples are collected daily at two spore trap locations. One located at the SLVRC and the other trap approximately 7 miles SE of the SLVRC. Pathogen abundance expressed as template copy number per reaction was estimated from the standard curve using qPCR.



### Sclerotinia sclerotiorum (white mold)

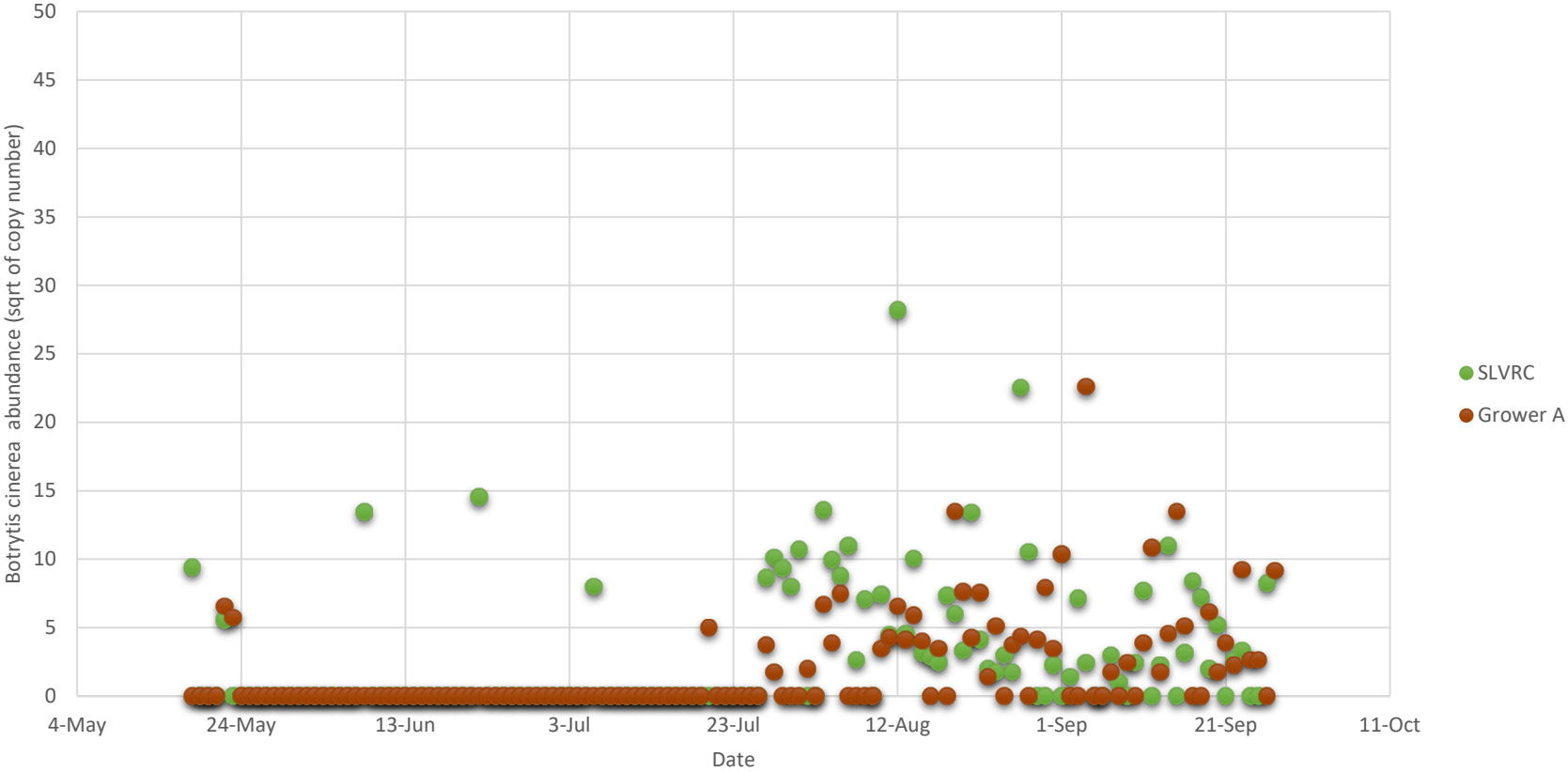


### Phytophthora infestans (late blight)

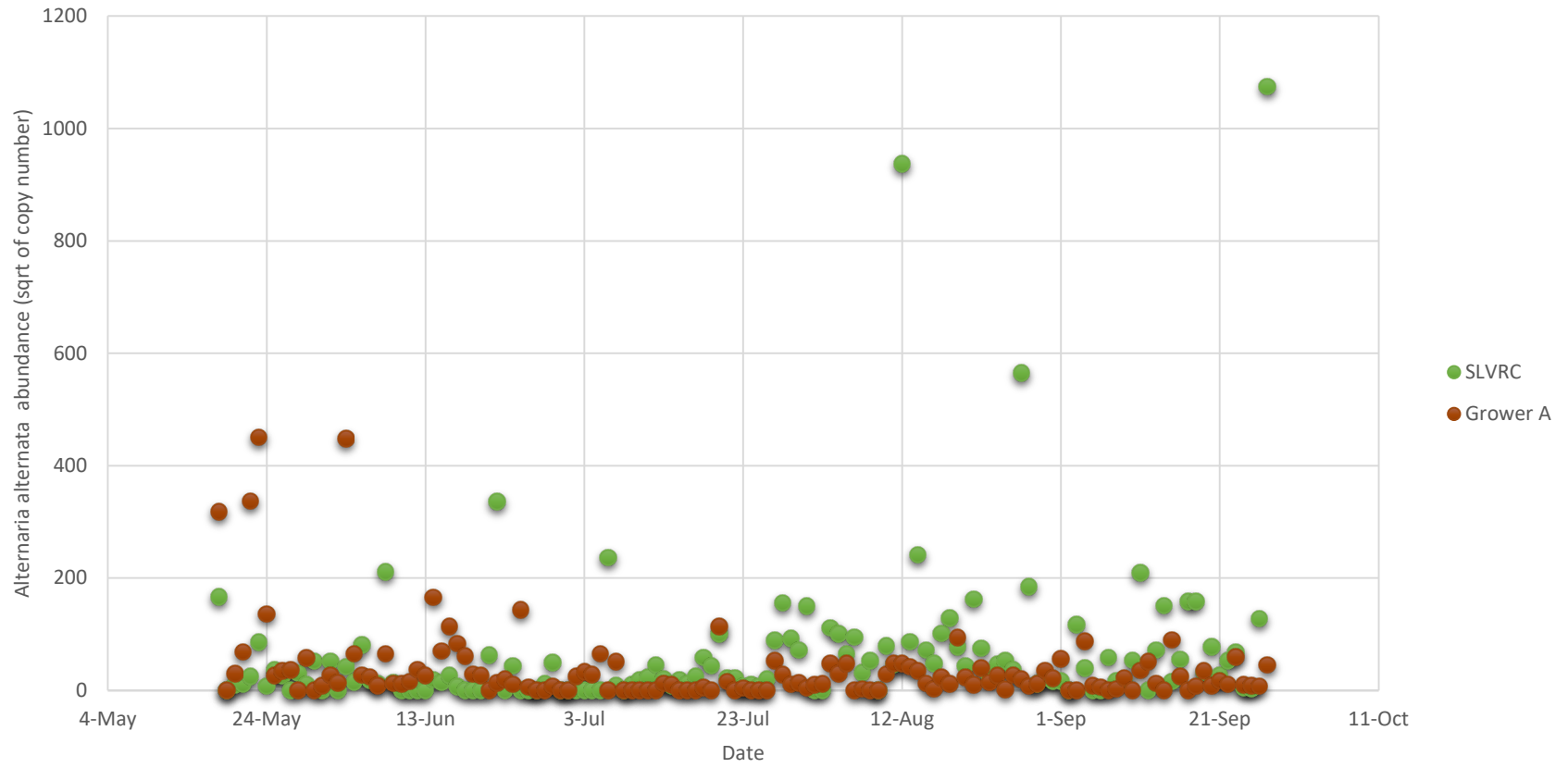


All negative

### Botrytis cinerea (grey mold)



### Alternaria alternata (brown spot)



Positive (+) and negative (-) qPCR results for *Alternaria solani* detected from two spore trap locations in the San Luis Valley in 2021 (A= GrowerA, B=SLVRC; \* = data not available).

		May																															
Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total+	
A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	+	-	-	-	+	+	+	-	-	-	-	-	-	-	-	4
B																		+	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
		June																															
Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total+		
A	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
B	-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	3		
		July																															
Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total+	
A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*	*	*	-	-	-	-	-	0		
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	+	4	
		August																															
Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total+	
A	-	-	-	-	-	-	-	-	*	+	-	+	-	-	-	-	-	-	+	+	-	+	+	-	-	-	+	-	+	-	-	8	
B	*	*	+	+	+	-	-	-	*	+	+	+	-	+	-	+	+	+	-	-	+	+	-	-	+	-	+	+	-	-	-	15	
		September																															
Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total+	
A	+	-	-	+	-	-	-	-	+	-	+	+	+	+	+	+	-	+	+	+	-	+	+	+	+	-	+				17		
B	-	-	+	+	*	*	+	+	+	+	+	-	+	+	-	+	+	+	+	+	+	+	+	-	-	+	+				19		

Positive (+) and negative (-) qPCR results for *Alternaria alternata* detected from two spore trap locations in the San Luis Valley in 2021 (A= GrowerA, B=SLVRC; \* = data not available).

May																																	
Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total+	
A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	+	-	+	+	+	+	+	+	+	+	+	-	+	-	+	11
B																		+	-	+	+	+	+	+	+	+	+	-	+	+	+	-	11
June																																	
Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total+		
A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	+	+	+	+	+	-	-	+	-	26	
B	+	-	+	+	+	+	+	+	+	-	-	-	-	+	+	+	+	-	-	-	+	+	-	+	-	-	-	+	+	-	+	-	17
July																																	
Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total+	
A	-	+	+	+	+	-	+	-	-	-	-	-	+	+	-	-	-	+	-	+	+	-	-	*	*	*	+	+	+	+	+	15	
B	-	-	-	-	-	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
August																																	
Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total+	
A	+	+	+	+	+	-	+	-*	*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	28	
B	*	*	+	+	+	+	+	+	*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	28	
September																																	
Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total+	
A	+	-	-	+	+	+	-	+	+	-	+	+	+	-	+	+	-	+	+	+	+	+	+	+	+	+	+					21	
B	+	-	+	+	*	*	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					23	

Positive (+) and negative (-) qPCR results for *Botrytis cinerea* detected from two spore trap locations in the San Luis Valley in 2021 (A= GrowerA, B=SLVRC; \* = data not available).

May																																	
Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total+	
A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	2
B																		+	-	-	-	+	-	-	-	-	-	-	-	-	-	2	
June																																	
Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total+		
A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
B	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	2	
July																																	
Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total+	
A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	*	*	*	+	+	-	-	-	3	
B	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	+	+	6	
August																																	
Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total+	
A	+	-	+	+	+	-	-	-	*	+	+	+	+	+	+	-	+	-	+	+	+	+	+	+	-	+	+	-	+	+	+	22	
B	*	*	+	+	+	+	+	+	*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	+	26
September																																	
Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total+	
A	+	-	-	+	-	-	+	-	+	-	+	+	+	+	+	+	+	-	-	+	+	+	+	+	+	-	+					18	
B	-	+	+	+	*	*	+	+	-	+	+	-	+	+	-	+	+	+	+	+	-	+	+	-	-	+	+					18	



Positive (+) and negative (-) qPCR results for *Sclerotinia sclerotiorum* detected from two spore trap locations in the San Luis Valley in 2021 (A= GrowerA, B=SLVRC; \* = data not available).

	September																																
Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total+	
A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
B	-	-	-	-	-	-	-	-	-	+	+	-	+	+	+	+	+	+	+	+	-	-	-	-	-	+	+					12	