„Shining a LAMP" (Loop-Mediated Isothermal Amplification) on the molecular detection of Phytophthora spp. and Phytophthora cactorum in strawberry fields

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Table. T1. Results of the detection of Phytophthora spp. and Phytophthora cactorum in environmental samples of organic strawberry fields. samples collected in 2019 and 2020.

Sample	Plantation number	Coordinates	Type of the sample	Type of the soil	Strawberry variety	Time to positive *Phytophthora* spp.	Temperature of melting *Phytophthora* spp.	Time to positive *Phytophthora cactorum*	Temperature of melting *Phytophthora cactorum*
385/19K	4	N49°55.8617' E022°31.0445'	roots	chernozem	Aprica			23.28	91.09
449/19K	10	N50°08.4584' E023°00.1018'	roots	acrisol	Dipred			32.91	90.13
45/19C	Mean from plantation 11	-	bulk soil	acrisol	Aprica			16.69	89.57
478/19	13	N50°14.9756' E022°44.8757'	bulk soil	regosol	Aprica		90.15		
490/19	14	N50°14.9203' E022°44.8742'	bulk soil	nd	Aprica	35.10	87.77		
48/19C	Mean from plantations 1 and 2	-	bulk soil	fluvisol	Aprica and Honeoye	66.05	88.14		
1468/20	15	N51°35.7167' E021°64.5414'	fruit	nd	nd			54.13	88.22
1469/20	15	N51°35.7167' E021°64.5414'	fruit	nd	nd			80.40	88.96
1472/20	15	N51°35.7167' E021°64.5414'	fruit	nd	nd			86.23	89.14
1485/20	15	N51°35.7167'	fruit	nd	nd			38.39	87.66

		E021°64.5414’							
1491/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd			72.46	89.33
1498/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd			80.96	88.96
1505/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd			78.07	88.96
1506/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd			84.41	88.96
1508/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd			81.19	89.14
1522/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd			81.88	88.96
1632/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Rumba	66.67	90.32		
347/19	1	N50°07.8333' E022°37.5488'	rhizosphere	fluvisol	Aprica				
348/19	1	N50°07.8263' E022°37.5166'	bulk soil	fluvisol	Aprica				
349/19	1	N50°07.8212' E022°37.4898'	rhizosphere	fluvisol	Aprica				
350/19	1	N50°07.8201' E022°37.4812'	bulk soil	fluvisol	Aprica				
351/19	1	N50°07.8185' E022°37.4681'	rhizosphere	fluvisol	Aprica				
352/19K	1	N50°07.8333' E022°37.5488'	shoots	fluvisol	Aprica				
352/19L	1	N50°07.8333' E022°37.5488'	roots	fluvisol	Aprica				
354/19K	1	N50°07.8212' E022°37.4898'	shoots	fluvisol	Aprica				
354/19L	1	N50°07.8212' E022°37.4898'	roots	fluvisol	Aprica				
356/19L	1	N50°07.8185' E022°37.4681'	shoots	fluvisol	Aprica				

356/29K	1	N50°07.8185' E022°37.4681'	roots	fluvisol	Aprica				
337/19	2	N50°07.7870' E022°37.4886'	bulk soil	fluvisol	Honeoye				
338/19	2	N50°07.7906' E022°37.4944'	rhizosphere	fluvisol	Honeoye				
339/19	2	N50°07.7941' E022°37.5015'	bulk soil	fluvisol	Honeoye				
340/19	2	N50°07.7995' E022°37.5139'	rhizosphere	fluvisol	Honeoye				
341/19	2	N50°07.8080' E022°37.5417'	bulk soil	fluvisol	Honeoye				
342/19K	2	N50°07.7870' E022°37.4886'	roots	fluvisol	Honeoye				
342/19L	2	N50°07.7870' E022°37.4886'	shoots	fluvisol	Honeoye				
343/19K	2	N50°07.7906' E022°37.4944'	roots	fluvisol	Honeoye				
343/19L	2	N50°07.7906' E022°37.4944'	shoots	fluvisol	Honeoye				
344/19K	2	N50°07.7941' E022°37.5015'	roots	fluvisol	Honeoye				
344/19L	2	N50°07.7941' E022°37.5015'	shoots	fluvisol	Honeoye				
357/19	3	N50°07.3774' E022°36.8599'	rhizosphere	fluvisol	Aprica				
358/19	3	N50°07.3881' E022°36.8722'	bulk soil	fluvisol	Dipred				
359/19	3	N50°07.3955' E022°36.8877'	rhizosphere	fluvisol	Dipred				
360/19	3	N50°07.4071' E022°36.9098'	bulk soil	fluvisol	Dipred				
361/19	3	N50°07.4200' E022°36.9337'	rhizosphere	fluvisol	Dipred				
362/19K	3	N50°07.3774' E022°36.8599'	roots	fluvisol	Dipred				

362/19L	3	N50°07.3774' E022°36.8599'	shoots	fluvisol	Dipred				
364/19K	3	N50°07.3955' E022°36.8877'	roots	fluvisol	Dipred				
364/19L	3	N50°07.3955' E022°36.8877'	shoots	fluvisol	Dipred				
366/19K	3	N50°07.4200' E022°36.9337'	roots	fluvisol	Dipred				
366/19L	3	N50°07.4200' E022°36.9337'	shoots	fluvisol	Dipred				
53/19A	Mean from plantation 3	-	bulk soil	fluvisol	Dipred				
53/19B	Mean from plantation 3	-	bulk soil	fluvisol	Dipred				
53/19C	Mean from plantation 3	-	bulk soil	fluvisol	Dipred				
379/19	4	N49°55.8617' E022°31.0445'	rhizosphere	chernozem	Aprica				
380/19	4	N49°55.8520' E022°31.0292'	bulk soil	chernozem	Aprica				
381/19	4	N49°55.8339' E022°31.0084'	rhizosphere	chernozem	Aprica				
382/19	4	N49°55.8150' E022°30.9833'	bulk soil	chernozem	Aprica				
383/19	4	N49°55.7974' E022°30.9677'	rhizosphere	chernozem	Aprica				
384/19	4	N49°55.7894' E022°30.9533'	bulk soil	chernozem	Aprica				
385/19L	4	N49°55.8617' E022°31.0445'	shoots	chernozem	Aprica				
387/19K	4	N49°55.8339' E022°31.0084'	roots	chernozem	Aprica				

387/19L	4	N49°55.8339' E022°31.0084'	shoots	chernozem	Aprica				
389/19K	4	N49°55.7974' E022°30.9677'	roots	chernozem	Aprica				
389/19L	4	N49°55.7974' E022°30.9677'	shoots	chernozem	Aprica				
538/19A	Mean from plantation 4	-	bulk soil	acrisol	Aprica				
538/19B	Mean from plantation 4	-	bulk soil	acrisol	Aprica				
538/19C	Mean from plantation 4	-	bulk soil	acrisol	Aprica				
367/19	5	N49°57.3395' E022°32.9881'	rhizosphere	cambisol	Honeoye				
368/19	5	N49°57.3488' E022°32.9403'	bulk soil	cambisol	Honeoye				
369/19	5	N49°57.3610' E022°32.8927'	rhizosphere	cambisol	Honeoye				
370/19	5	N49°57.3695' E022°32.8507'	bulk soil	cambisol	Honeoye				
371/19	5	N49°57.3825' E022°32.7908'	rhizosphere	cambisol	Honeoye				
372/19	5	N49°57.3880' E022°32.7742'	bulk soil	cambisol	Honeoye				
373/19K	5	N49°57.3395' E022°32.9881'	roots	cambisol	Honeoye				
373/19L	5	N49°57.3395' E022°32.9881'	shoots	cambisol	Honeoye				
375/19K	5	N49°57.3610' E022°32.8927'	roots	cambisol	Honeoye				
375/19L	5	N49°57.3610' E022°32.8927'	shoots	cambisol	Honeoye				

377/19K	5	N49°57.3825' E022°32.7908'	roots	cambisol	Honeoye				
377/19L	5	N49°57.3825' E022°32.7908'	shoots	cambisol	Honeoye				
539/19A	Mean plantation 5	-	bulk soil	acrisol	Honeoye				
539/19B	Mean plantation 5	-	bulk soil	acrisol	Honeoye				
539/19C	Mean plantation 5	-	bulk soil	acrisol	Honeoye				
391/19	6	N49°58.8536' E022°39.4243'	rhizosphere	nd	Honeoye				
392/19	6	N49°58.8490' E022°39.4429'	bulk soil	nd	Honeoye				
393/19	6	N49°58.8406' E022°39.4630'	rhizosphere	nd	Honeoye				
394/19	6	N49°58.8330' E022°39.4782'	bulk soil	nd	Honeoye				
395/19	6	N49°58.8262' E022°39.4876'	rhizosphere	nd	Honeoye				
396/19	6	N49°58.8160' E022°39.5011'	bulk soil	nd	Honeoye				
397/19K	6	N49°58.8536' E022°39.4243'	roots	nd	Honeoye				
397/19L	6	N49°58.8536' E022°39.4243'	shoots	nd	Honeoye				
399/19K	6	N49°58.8406' E022°39.4630'	roots	nd	Honeoye				
399/19L	6	N49°58.8406' E022°39.4630'	shoots	nd	Honeoye				
401/19K	6	N49°58.8262' E022°39.4876'	roots	nd	Honeoye				

401/19L	6	N49°58.8262' E022°39.4876'	shoots	nd	Honeoye				
415/19	7	N49°50.9894' E022°48.1942'	rhizosphere	nd	Honeoye				
416/19	7	N49°50.9811' E022°48.1870'	bulk soil	nd	Honeoye				
417/19	7	N49°50.9689' E022°48.1791'	rhizosphere	nd	Honeoye				
418/19	7	N49°50.9501' E022°48.1661'	bulk soil	nd	Honeoye				
419/19	7	N49°50.9269' E022°48.1535'	rhizosphere	nd	Honeoye				
420/19	7	N49°50.9030' E022°48.1427'	bulk soil	nd	Honeoye				
421/19K	7	N49°50.9894' E022°48.1942'	shoots	nd	Honeoye				
421/19L	7	N49°50.9894' E022°48.1942'	roots	nd	Honeoye				
423/19K	7	N49°50.9689' E022°48.1791'	shoots	nd	Honeoye				
423/19L	7	N49°50.9689' E022°48.1791'	roots	nd	Honeoye				
425/19L	7	N49°50.9269' E022°48.1535'	shoots	nd	Honeoye				
426/19K	7	N49°50.9269' E022°48.1535'	roots	nd	Honeoye				
427/19	8	N49°50.9375' E022°48.1501'	rhizosphere	nd	Honeoye				
428/19	8	N49°50.9312' E022°48.1438'	bulk soil	nd	Honeoye				
429/19	8	N49°50.9237' E022°48.1383'	rhizosphere	nd	Honeoye				
430/19	8	N49°50.9227' E022°48.1366'	bulk soil	nd	Honeoye				
431/19	8	N49°50.9132' E022°48.1280'	rhizosphere	nd	Honeoye				

432/19	8	N49°50.9069' E022°48.1229'	bulk soil	nd	Honeoye				
433/19K	8	N49°50.9375' E022°48.1501'	roots	nd	Honeoye				
433/19L	8	N49°50.9375' E022°48.1501'	shoots	nd	Honeoye				
435/19K	8	N49°50.9237' E022°48.1383'	roots	nd	Honeoye				
435/19L	8	N49°50.9237' E022°48.1383'	shoots	nd	Honeoye				
437/19K	8	N49°50.9132' E022°48.1280'	roots	nd	Honeoye				
437/19L	8	N49°50.9132' E022°48.1280'	shoots	nd	Honeoye				
403/19	9	N49°50.9225' E022°48.1597'	bulk soil	nd	Honeoye				
404/19	9	N49°50.9343' E022°48.1676'	rhizosphere	nd	Honeoye				
405/19	9	N49°50.9454' E022°48.1765'	bulk soil	nd	Honeoye				
406/19	9	N49°50.9599' E022°48.1877'	rhizosphere	nd	Honeoye				
407/19	9	N49°50.9723' E022°48.1978'	bulk soil	nd	Honeoye				
408/19	9	N49°50.9809' E022°48.2039'	rhizosphere	nd	Honeoye				
410/19K	9	N49°50.9343' E022°48.1676'	roots	nd	Honeoye				
410/19L	9	N49°50.9343' E022°48.1676'	shoots	nd	Honeoye				
412/19K	9	N49°50.9599' E022°48.1877'	roots	nd	Honeoye				
412/19L	9	N49°50.9599' E022°48.1877'	shoots	nd	Honeoye				
414/19K	9	N49°50.9809' E022°48.2039'	roots	nd	Honeoye				

414/19L	9	N49°50.9809' E022°48.2039'	shoots	nd	Honeoye				
439/19	10	N50°08.5010' E023°00.1346'	rhizosphere	acrisol	Dipred				
440/19	10	N50°08.4844' E023°00.1220'	bulk soil	acrisol	Dipred				
441/19	10	N50°08.4775' E023°00.1167'	rhizosphere	acrisol	Dipred				
442/19	10	N50°08.4652' E023°00.1084'	bulk soil	acrisol	Dipred				
443/19	10	N50°08.4584' E023°00.1018'	rhizosphere	acrisol	Dipred				
444/19	10	N50°08.4585' E023°00.0963'	bulk soil	acrisol	Dipred				
445/19K	10	N50°08.5010' E023°00.1346'	roots	acrisol	Dipred				
445/19L	10	N50°08.5010' E023°00.1346'	shoots	acrisol	Dipred				
447/19K	10	N50°08.4775' E023°00.1167'	roots	acrisol	Dipred				
447/19L	10	N50°08.4775' E023°00.1167'	shoots	acrisol	Dipred				
449/19L	10	N50°08.4584' E023°00.1018'	shoots	acrisol	Dipred				
45/19A	Mean from plantation 11	-	bulk soil	acrisol	Aprica				
45/19B	Mean from plantation 11	-	bulk soil	acrisol	Aprica				
451/19	11	N50°08.4642' E023°00.0965'	rhizosphere	acrisol	Dipred				
452/19	11	N50°08.4802' E023°00.1045'	bulk soil	acrisol	Dipred				

453/19	11	N50°08.4880' E023°00.1081'	rhizosphere	acrisol	Dipred				
454/19	11	50.141638, 23.001876	bulk soil	acrisol	Dipred				
455/19	11	50.141820 23.001952	rhizosphere	acrisol	Dipred				
456/19	11	N50°08.5164' E023°00.1201'	bulk soil	acrisol	Dipred				
457/19K	11	N50°08.4642' E023°00.0965'	roots	acrisol	Dipred				
457/19L	11	N50°08.4642' E023°00.0965'	shoots	acrisol	Dipred				
459/19K	11	N50°08.4880' E023°00.1081'	roots	acrisol	Dipred				
459/19L	11	N50°08.4880' E023°00.1081'	shoots	acrisol	Dipred				
461/19K	11	50.141820 23.001952	roots	acrisol	Aprica				
461/19L	11	50.141820 23.001952	shoots	acrisol	Aprica				
57/19A	Mean from plantation 11	-	bulk soil	acrisol	Dipred				
57/19B	Mean from plantation 11	-	bulk soil	acrisol	Dipred				
57/19C	Mean from plantation 11	-	bulk soil	acrisol	Dipred				
43/19A	Mean from plantation 12	-	bulk soil	acrisol	Honeoye				
43/19B	Mean from plantation 12	-	bulk soil	acrisol	Honeoye				

43/19C	Mean from plantation 12	-	bulk soil	acrisol	Honeoye				
463/19	12	N50°08.9259' E023°00.1276'	rhizosphere	acrisol	Honeoye				
464/19	12	N50°08.9400' E023°00.1382'	bulk soil	acrisol	Honeoye				
465/19	12	N50°08.9551' E023°00.1541'	rhizosphere	acrisol	Honeoye				
466/19	12	N50°08.9668' E023°00.1659'	bulk soil	acrisol	Honeoye				
467/19	12	N50°08.9887' E023°00.1803'	rhizosphere	acrisol	Honeoye				
468/19	12	N50°09.0160' E023°00.1975'	bulk soil	acrisol	Honeoye				
469/19K	12	N50°08.9259' E023°00.1276'	roots	acrisol	Honeoye				
469/19L	12	N50°08.9259' E023°00.1276'	shoots	acrisol	Honeoye				
471/19K	12	N50°08.9551' E023°00.1541'	roots	acrisol	Honeoye				
471/19L	12	N50°08.9551' E023°00.1541'	shoots	acrisol	Honeoye				
473/19K	12	N50°08.9887' E023°00.1803'	roots	acrisol	Honeoye				
473/19L	12	N50°08.9887' E023°00.1803'	shoots	acrisol	Honeoye				
475/19	13	N50°14.9959' E022°44.8649'	rhizosphere	regosol	Aprica				
476/19	13	N50°14.9931' E022°44.8690'	bulk soil	regosol	Aprica				
477/19	13	N50°14.9841' E022°44.8706'	rhizosphere	regosol	Aprica				
479/19	13	N50°14.9756' E022°44.8757'	rhizosphere	regosol	Aprica				

480/19	13	N50°14.9683' E022°44.8815'	bulk soil	regosol	Aprica				
481/19K	13	N50°14.9959' E022°44.8649'	roots	regosol	Aprica				
481/19L	13	N50°14.9959' E022°44.8649’	shoots	regosol	Aprica				
483/19K	13	N50°14.9841' E022°44.8706'	roots	regosol	Aprica				
483/19L	13	N50°14.9841' E022°44.8706'	shoots	regosol	Aprica				
485/19K	13	N50°14.9722' E022°44.8806'	roots	regosol	Aprica				
485/19L	13	N50°14.9722' E022°44.8806'	shoots	regosol	Aprica				
487/19	14	N50°14.9445' E022°44.8819'	rhizosphere		Aprica				
488/19	14	50.248953, 22.747947	bulk soil		Aprica				
489/19	14	N50°14.9281' E022°44.8763'	rhizosphere		Aprica				
491/19	14	N50°14.9133' E022°44.8697'	rhizosphere		Aprica				
492/19	14	N50°14.9025' E022°44.8702'	bulk soil		Aprica				
493/19K	14	N50°14.9445' E022°44.8819'	roots		Aprica				
493/19L	14	N50°14.9445' E022°44.8819'	shoots		Aprica				
493/19L	14	N50°14.9281' E022°44.8763'	shoots		Aprica				
495/19K	14	N50°14.9281' E022°44.8763'	roots		Aprica				
495/19L	14	N50°14.9133' E022°44.8697'	shoots		Aprica				
497/19K	14	N50°14.9133' E022°44.8697'	roots		Aprica				

48/19A	Mean from plantations 1 and 2	-	bulk soil	fluvisol	Aprica and Honeoye				
48/19B	Mean from plantations 1 and 2	-	bulk soil	fluvisol	Aprica and Honeoye				
32/19A	Mean from plantations 13 and 14	-	bulk soil	regosol	Aprica				
55/19A	Mean from plantations 13 and 14	-	bulk soil	regosol	Aprica				
55/19B	Mean from plantations 13 and 14	-	bulk soil	regosol	Aprica				
55/19C	Mean from plantations 13 and 14	-	bulk soil	regosol	Aprica				
32/19B	Mean from plantations 13 and 14	-	bulk soil	regosol	Aprica				
32/19C	Mean from plantations 13 and 14	-	bulk soil	regosol	Aprica				
1470/20	15	N51°35.7167' E021°64.5414'	fruit	nd	nd				
1471/20	15	N51°35.7167' E021°64.5414'	fruit	nd	nd				
1473/20	15	N51°35.7167' E021°64.5414'	fruit	nd	nd				
1474/20	15	N51°35.7167' E021°64.5414'	fruit	nd	nd				
1475/20	15	N51°35.7167' E021°64.5414'	fruit	nd	nd				

1476/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1477/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1478/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1479/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1480/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1481/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1482/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1483/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1484/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1486/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1487/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1488/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1489/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1490/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1492/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1493/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1494/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1495/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				

1496/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1497/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1499/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1500/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1501/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1502/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1503/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1504/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1507/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1509/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1510/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1511/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1512/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1513/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1514/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1515/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1516/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1517/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				

1518/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1519/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1520/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1521/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1523/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1524/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1525/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1526/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1527/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1528/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1529/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1530/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1531/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1532/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1533/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1534/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1535/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1536/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				

1537/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1538/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1539/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1540/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1541/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1542/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1543/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1544/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1545/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1546/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1547/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1548/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1549/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1550/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1551/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1552/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1553/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1554/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				

1555/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1556/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1557/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1558/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1559/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1560/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1561/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1562/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1563/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1564/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1565/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1566/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1567/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1568/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1569/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1570/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1571/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1572/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				

1573/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1574/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1575/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1576/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1577/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1578/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1579/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1580/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1581/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	nd				
1624/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Honeoye				
1625/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Vibrant				
1626/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Rumba				
1627/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Honeoye				
1628/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Vibrant				
1629/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Rumba				
1630/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Honeoye				
1631/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Vibrant				
1633/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Honeoye				

1634/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Vibrant				
1635/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Rumba				
1636/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Honeoye				
1637/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Vibrant				
1638/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Rumba				
1639/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Honeoye				
1640/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Vibrant				
1641/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Rumba				
1642/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Honeoye				
1643/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Vibrant				
1644/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Rumba				
1645/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Honeoye				
1646/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Vibrant				
1647/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Rumba				
1648/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Rumba				
1649/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Honeoye				
1650/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Vibrant				
1651/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Honeoye				

1652/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Vibrant				
1653/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Rumba				
1654/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Honeoye				
1655/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Vibrant				
1656/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Rumba				
1657/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Honeoye				
1658/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Vibrant				
1659/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Rumba				
1660/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Honeoye				
1661/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Vibrant				
1662/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Rumba				
1663/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Honeoye				
1664/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Vibrant				
1665/20	15	N51°35.7167’ E021°64.5414’	fruit	nd	Rumba				
	2019		192			4	4	13	13
	2020		156						
	SUM		331			percentage	1%	4%	

						Time to positive *Phytophthora* spp.	Temperature of melting *Phytophthora* spp.	Time to positive *Phytophthora cactorum*	Temperature of melting *Phytophthora cactorum*
					max	66.67	90.32	86.23	91.09
					min	35.10	87.77	16.69	87.66