



2011 Plum Pox Virus Survey Summary

Plum Pox Virus was detected for the first time in Pennsylvania in September of 1999. After ten years of intensive survey and control efforts, including collection and testing of over 2 million leaf samples and destruction of one-fifth of Pennsylvania's stone fruit orchards, Pennsylvania reached an incredible milestone: no virus was found for three consecutive years of survey, fulfilling the requirements necessary to declare eradication of plum pox virus from Pennsylvania. The Commonwealth celebrated the eradication milestone in October 2009, and then prepared for a strong but less intensive PPV monitoring and recovery program, slated to last for three additional years.

In 2011, the second year of the monitoring and recovery phase was completed. The joint PDA/USDA survey in the Commonwealth generated a total of 61,056 laboratory (ELISA) samples, with no PPV detections. **This is the fifth consecutive year of all negative PPV data for the Commonwealth.**

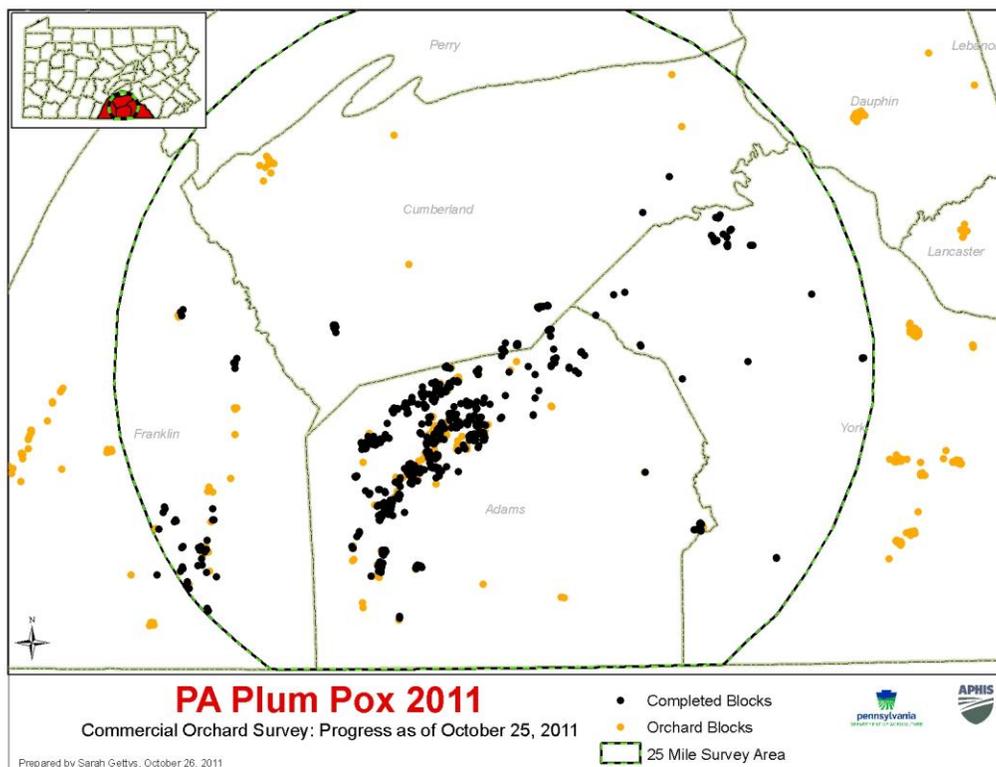
A team of 22 temporary workers began the season on May 16; most left the program in August, while a small crew continued some PA work through October 28. Samples collected were primarily commercial orchard trees (57,375) and nursery-related plantings (3,679). The majority of the orchard samples were collected from 574 orchard blocks in a 25-mile radius area that encompassed every part of the state in which positives had ever been found. Nursery-related sampling did extend beyond that area to include PA nursery operations in other counties and PA-nurseries operating in adjoining states.

In addition to running all samples in ELISA, a subset was tested using the more sensitive real time RT-PCR test. No positive samples were identified from the 198 PA samples tested using this protocol.

The 2011 survey season marked the fifth consecutive year of all negative survey data in the Commonwealth. As of October 29, 2009, all PPV quarantine restrictions for commercial orchards and residential properties within Pennsylvania have been removed. Limited nursery quarantine will remain in place during the 3-year monitoring phase of the plum pox program. The nursery quarantine does not affect the sale of *Prunus* from retail sites that buy-in their nursery stock, but propagation or long-term grow-out of *Prunus* is prohibited. This nursery quarantine provides further assurance to buyers of Pennsylvania nursery stock that the stock is safe to plant, and no hidden PPV infection will introduce the virus to new areas through the movement of infected nursery stock. The nursery quarantine area for 2012 is restricted to portions of Adams and Cumberland Counties, and is unchanged from 2011 (see map).

Total PA orchard acreage removed since the beginning of the program stands at 1,675 acres, unchanged from 2006. Pennsylvania growers remain helpful and cooperative, despite the disruption this survey causes to their operations. If a 2012 survey of similar scope to this year's survey yields all negative results, then all PA nursery quarantine areas will be removed and formal orchard survey for PPV will very likely be discontinued.

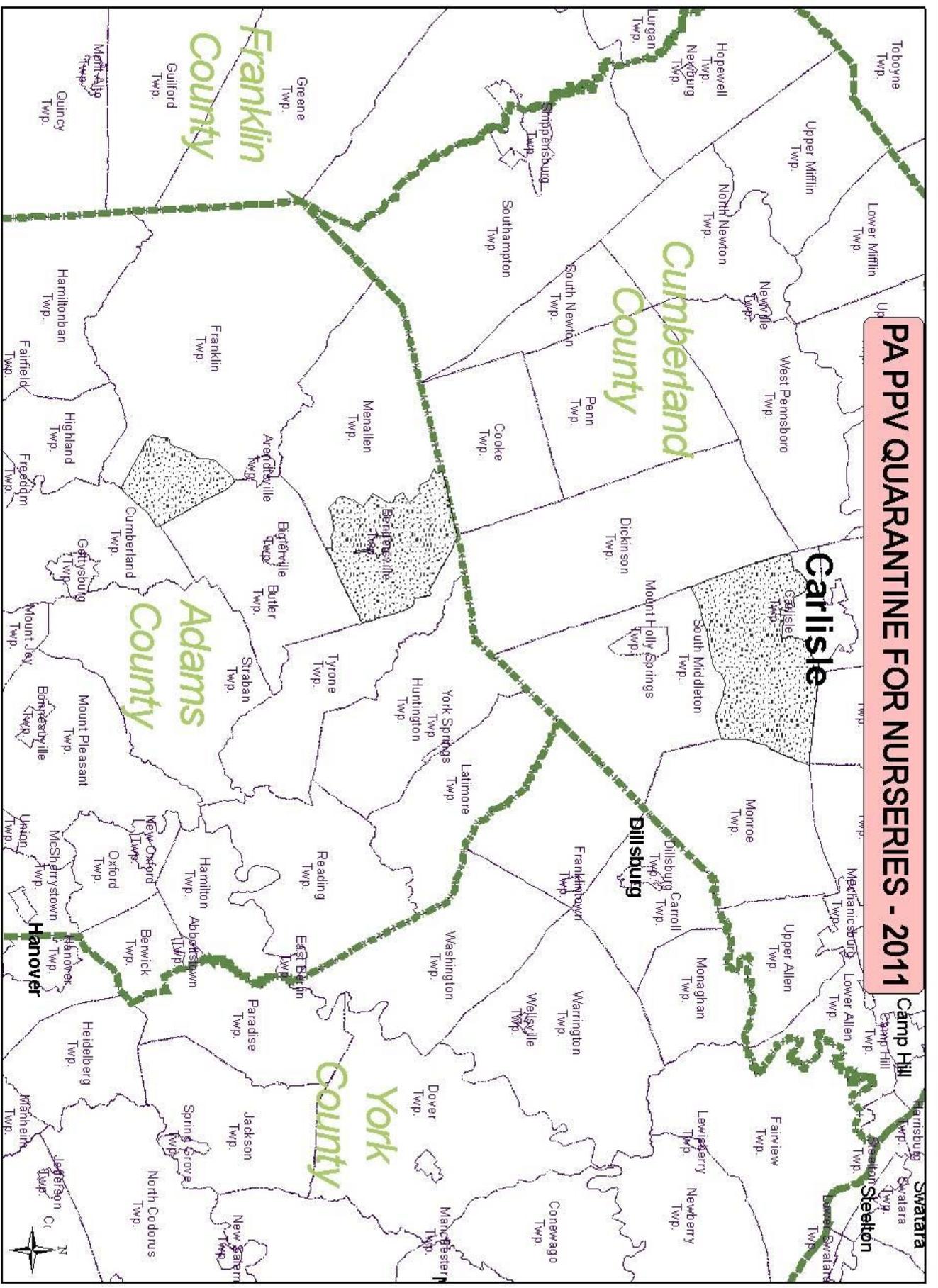
In 2011, extensive survey in New York State detected only one positive orchard tree, in Niagara County. This was the only PPV detection in the United States. PPV still exists at higher levels in Ontario, Canada.



**Four-County Sample Numbers by Year
 (Adams, Cumberland, Franklin, and York Counties)**

Year	Orchard Samples	Homeowner Samples	Other Samples	Total Samples	Total Positives	% Positive
2000	51,429	547	586	52,562	399	0.776
2001	80,012	5,556	1,326	86,894	27	0.034
2002	90,388	15,748	1,913	108,049	7	0.008
2003	155,970	36,530	6,845	199,345	11	0.006
2004	166,306	42,730	2,059	211,095	4	0.002
2005	213,005	51,158	3,280	267,443	5	0.002
2006	166,568	45,702	4,418	216,688	6	0.002
2007	173,180	44,295	2,689	220,164	0	0
2008	218,198	10,230	2,634	231,062	0	0
2009	204,251	10,843	264	215,358	0	0
2010	61,385	1,012	25	62,422	0	0
2011	57,375	0	1,101	58,476	0	0

PA PPV QUARANTINE FOR NURSERIES - 2011



-  Nursery Quarantine Area for PPV
-  Primary Quarantine Area for 2010 - NONE
-  PA Municipal Boundaries

