

## 2010 Plum Pox Survey Summary - Pennsylvania

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.

In 2010, joint USDA/PDA survey in the Commonwealth of Pennsylvania generated a total of 76,519 laboratory (ELISA) samples, with no PPV detections. This is the **fourth** year of all negative PPV data for the Commonwealth. We had up to 24 state employees and 4 federal employees collecting samples this season. Primary season began on May 10 and continued through August 27, with a small team (5 people) working for an additional month (to September 24). We do not anticipate federal employee participation in the 2011 survey.

Samples collected included commercial orchard trees (72,670), residential property trees and shrubs (1,012), nursery-related plantings (2,806), and wild trees (31). The majority of these samples were collected in a 25-mile radius area that encompassed every part of the state in which positives had ever been found, but sampling did extend beyond that area to include commercial orchard samples from 21 counties (see map below) as well as samples from PA nursery operations moved to adjoining states.

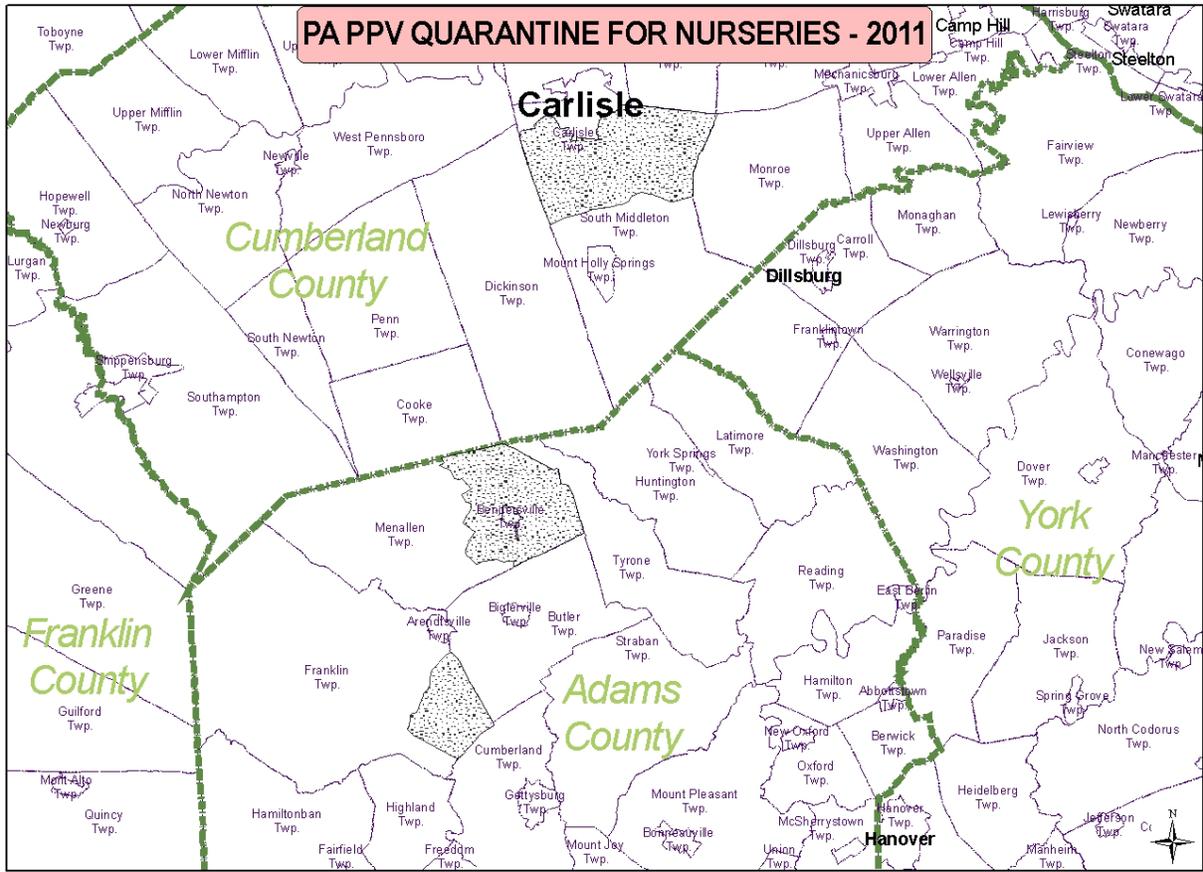
In addition to running all 76,519 samples in ELISA, a subset was tested using the more sensitive real time RT-PCR test. More than 500 samples were tested using this protocol, with no positive results.

### 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



**PA PPV QUARANTINE FOR NURSERIES - 2011**



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