Additional file 2

Table S1. Assay costs for recombinase polymerase amplification (RPA) and polymerase chain reaction (PCR) assays for detection of TYLCV

Assay	Template	Processing Sample Size ^a	Extraction		Amplification ^c		Total Cost	Total	Total
			Reagent cost (\$) ^b	Time (h)	Reagent cost (\$)	Time (h)	Reagents (\$)	Time (h)	Costs (\$) ^d
PCR	Pur DNA	1	4.26	1.00	1.32	1.50	5.40	2.50	92.90
RPA	Pur DNA	1	4.26	1.00	5.50	0.67	9.76	1.67	68.21
RPA	Crude extract	1	0.00	0.01	5.50	0.67	5.50	0.68	29.30
PCR	Pur DNA	13	55.38	1.20	17.16	1.83	72.54	3.03	178.59
RPA	Pur DNA	13	55.38	1.20	71.50	0.75	126.88	1.95	195.13
RPA	Crude extract	13	0.0	0.17	71.50	0.75	71.50	0.92	103.73

^a Number of plant samples tested at one time

^b Costs of reagents per sample used in these studies. All costs are estimated from prices current as of June 2015 and are in US dollars.

^c For PCR assumes 1.3 h amplification program; for RPA assumes 20 min amplification, heating at 65 °C for 10 min followed by centrifugation at 3,800 rcf for 10 min.

^d Reagent and labor costs: These are the costs incurred in the reported studies. Costs do not include agarose gel electrophoresis. A rate of \$35.00 per hour for labor was used in the calculations.