

Table S1. Environmental sample types collected at each farm during the fall 2012 and spring 2013 leafy greens growing season.

Farm ^a	Farm System	Dates Sampled	Samples Collected Each Date	Number of Samples (N=577)
DE1	organic	13 May 2013 20 May 2013 28 May 2013	leafy greens; soil; groundwater leafy greens; groundwater leafy greens; groundwater	20
DE3	organic	24 September 2012 9 October 2012 22 October 2012	leafy greens; compost; groundwater leafy greens; groundwater leafy greens; compost; groundwater	16
DE4*	organic	9 October 2012 22 October 2012 13 November 2012	leafy greens; compost; groundwater leafy greens; groundwater leafy greens	13
DE5*	organic	15 October 2012 13 November 2012	leafy greens; compost; groundwater leafy greens	8
DE6*	organic	13 May 2013 20 May 2013 28 May 2013	leafy greens; soil; groundwater leafy greens; groundwater leafy greens; groundwater	17
ES1*	organic	24 September 2012 9 October 2012 22 October 2012	leafy greens; soil; groundwater leafy greens; groundwater leafy greens; groundwater	16
ES3*	organic	1 October 2012 15 October 2012 13 November 2012	leafy greens; soil; groundwater leafy greens; groundwater leafy greens	13
ES7	conventional	15 October 2012 22 October 2012 13 November 2012	leafy greens; soil; groundwater leafy greens; groundwater leafy greens	16
ES8*	organic	24 September 2012 9 October 2012 22 October 2012	soil; groundwater leafy greens; groundwater leafy greens; soil; groundwater	13
ES9*	organic	13 May 2013 20 May 2013 28 May 2013	leafy greens; soil; pond water; groundwater leafy greens; soil; pond water; groundwater leafy greens; pond water; groundwater	22
MD2*	organic	24 September 2012 9 October 2012 22 October 2012 13 May 2013 20 May 2013 28 May 2013	leafy greens; soil; groundwater leafy greens leafy greens; municipal water leafy greens; soil; groundwater leafy greens; groundwater leafy greens; groundwater	34
MD4*	conventional	1 October 2012	leafy greens; pond water	5
MD6*	conventional	13 May 2013 20 May 2013 28 May 2013	leafy greens; soil; pond water leafy greens; pond water leafy greens; pond water	18
MD7*	conventional	1 October 2012 15 October 2012 13 November 2012	leafy greens; pond water leafy greens; soil; sediment; pond water leafy greens	19
MD8*	organic	24 September 2012 9 October 2012 22 October 2012	leafy greens; soil; pond water leafy greens; pond water leafy greens	15
MD9*	conventional	1 October 2012 15 October 2012 13 November 2012	leafy greens; soil; river water leafy greens; sediment leafy greens	16

MD10*	organic	9 October 2012	leafy greens; soil; municipal water	13
		22 October 2012	leafy greens; compost	
		13 May 2013	leafy green; compost	
MD11*	conventional	13 May 2013	leafy greens; soil	10
		20 May 2013	leafy greens	
MD12*	organic	13 May 2013	leafy greens; soil; groundwater	10
		20 May 2013	leafy greens; groundwater	
NJ5*	organic	24 September 2012	leafy greens; compost; groundwater	13
		9 October 2012	leafy greens; compost; groundwater	
		22 October 2012	leafy greens; compost	
NJ6	organic	24 September 2012	leafy greens; soil; groundwater	13
		9 October 2012	leafy greens; soil; groundwater	
		22 October 2012	leafy greens; soil; groundwater	
NJ7	organic	24 September 2012	leafy greens; soil; groundwater	36
		9 October 2012	leafy greens; soil; groundwater	
		22 October 2012	leafy greens; soil; groundwater	
		13 May 2013	leafy greens; soil; compost; pond water	
		20 May 2013	leafy greens; soil; compost; pond water	
28 May 2013	leafy greens; soil; compost; pond water			
NJ8	organic	24 September 2012	leafy greens; soil; groundwater	13
		9 October 2012	leafy greens; soil; groundwater	
		22 October 2012	leafy greens; soil; groundwater	
NJ9*	conventional	1 October 2012	leafy greens; soil; groundwater	16
		15 October 2012	leafy greens; soil; groundwater	
		13 November 2012	leafy greens	
NJ10*	conventional	1 October 2012	leafy greens; soil; groundwater	36
		15 October 2012	leafy greens; soil; groundwater	
		13 November 2012	leafy greens	
		13 May 2013	leafy greens; soil; groundwater	
		20 May 2013	leafy greens; soil; groundwater	
28 May 2013	leafy greens; soil; groundwater			
NJ11*	conventional	1 October 2012	leafy greens; soil; groundwater	37
		15 October 2012	leafy greens; soil; groundwater	
		13 November 2012	leafy greens	
		13 May 2013	leafy greens; soil; groundwater	
		20 May 2013	leafy greens; soil; groundwater	
28 May 2013	leafy greens; soil; groundwater			
NJ12*	conventional	1 October 2012	leafy greens; soil; groundwater	16
		15 October 2012	leafy greens; soil; groundwater	
		13 November 2012	leafy greens	
NJ13*	conventional	13 May 2013	leafy greens; soil; groundwater	21
		20 May 2013	leafy greens; soil; groundwater	
		28 May 2013	leafy greens; soil; groundwater	
NJ14*	conventional	13 May 2013	leafy greens; soil; sediment; pond water	21
		20 May 2013	leafy greens; soil; sediment; pond water	
		28 May 2013	leafy greens; soil; sediment; pond water	
NJ15*	conventional	13 May 2013	leafy greens; groundwater	22
		20 May 2013	leafy greens; soil; groundwater	
		28 May 2013	leafy greens; soil; groundwater	
NJ16*	conventional	13 May 2013	leafy greens; soil; sediment; pond water	20
		20 May 2013	leafy greens; soil; pond water	
		28 May 2013	leafy greens; soil; sediment; pond water	
NJ17*	conventional	13 May 2013	leafy greens; soil; pond water	19
		20 May 2013	leafy greens; soil; sediment; pond water	
		28 May 2013	leafy greens; soil; sediment	

^a Farm code designates general geographical location. ES = Eastern shore of Maryland; DE = Delaware; MD = Central Maryland (excluding Eastern shore); NJ = New Jersey. Number randomly assigned to each farm. * indicates farmer used overhead sprinkler irrigation. Leafy greens included random and targeted samples. All water samples included irrigation water source and end of the irrigation system samples. Sediment was only collected when a surface water source (pond or creek) was used for leafy greens irrigation. Compost was only collected when available.