

Corn flea beetle index at Ohio locations, used to predict severity of Stewart's bacterial wilt disease on sweet corn

Site	Corn flea beetle index																															
	Long Term Average (as of 2017)	Year																														
		1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Piketon	100	-	-	-	-	103	91	103	95	108	116	111	107	94	113	91	97	107	108	-	100	95	90	90	112	104	85	86	110	119	101	
Jackson	96	96	102	99	107	107	102	89	102	93	107	116	110	105	93	110	90	96	106	106	98	100	94	88	91	114	105	89	90	112	118	100
Ripley	96	94	102	97	100	104	96	82	101	90	105	111	106	101	87	108	82	89	-	-	-	-	-	-	-	-	-	-	-	-	-	
Oxford	94	-	96	94	100	103	93	83	97	85	97	110	105	101	86	110	85	93	102	104	-	-	-	-	-	-	-	-	-	-	-	
Columbus	92	90	95	94	102	105	94	82	94	84	98	110	102	96	88	-	83	-	95	103	91	93	85	84	85	112	104	85	75	106	112	93
S.Charleston	90	98	93	91	96	98	90	79	92	81	96	111	101	95	82	104	77	86	93	96	90	90	84	80	81	103	92	68	82	103	104	89
Avon	88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	74	96	97	89	89	81	-	-	-	-	-	-	-	-	
Delaware	87	-	91	89	97	98	90	78	91	80	95	106	101	95	83	105	78	85	92	97	89	-	-	-	-	-	-	-	-	-	-	
Caldwell	87	93	98	97	106	103	98	86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	86	87	-	102	84	82	109	114	96
Kingsville	85	-	86	86	94	92	86	71	90	80	93	105	98	96	82	104	74	82	87	94	88	87	80	80	79	103	92	68	70	114	100	85
Wooster	85	85	90	88	96	95	89	76	92	80	96	106	98	96	83	105	76	84	91	96	89	88	80	80	77	102	94	74	73	103	102	98
Canfield	84	83	88	93	-	93	88	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mt.Vernon	81	-	90	88	99	105	90	76	88	80	97	105	98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hoytville	81	81	86	84	90	93	85	71	95	75	91	105	93	90	76	102	72	81	84	91	84	84	80	86	74	100	92	73	67	101	100	94
Fremont	80	82	-	84	90	89	85	68	83	71	86	98	94	87	76	102	68	78	78	85	79	87	79	82	75	101	93	65	70	101	101	84
Celeryville	78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	86	77	-	70	98	94	68	67	109	100	83

Corn flea beetle index = average temperature of December + average temperature of January + average temperature of February.

Percentage of Ohio locations in each of four categories of Stewart's wilt prediction.

Stewart's Wilt Prediction (based on corn flea beetle index)	Average based on long term flea beetle index	Year																													Average over all years	
		Percentage of Ohio sites in each category																														
		1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016		2017
<b>Severe (Index &gt;100)</b>	0%	0%	17%	0%	25%	46%	14%	0%	25%	0%	25%	92%	58%	36%	0%	100%	0%	0%	27%	37%	0%	0%	0%	0%	89%	40%	0%	0%	100%	70%	9%	26%
<b>Moderate to severe (95-100)</b>	20%	22%	25%	23%	50%	23%	14%	0%	17%	8%	50%	8%	25%	45%	0%	0%	0%	18%	27%	37%	11%	20%	10%	0%	11%	10%	0%	0%	30%	27%	16%	
<b>Light to moderate (90-94)</b>	20%	33%	33%	31%	25%	23%	36%	7%	41%	17%	17%	0%	17%	9%	18%	0%	18%	9%	18%	18%	22%	20%	10%	12%	20%	0%	50%	0%	10%	0%	18%	17%
<b>Negligible (Index &lt;90)</b>	60%	44%	25%	46%	0%	8%	36%	93%	17%	45%	8%	0%	0%	9%	82%	0%	82%	73%	27%	9%	66%	60%	80%	88%	80%	0%	100%	90%	0%	45%	39%	