

OSU IPPC uspest.org phenology model and degree-day calculator usage (model runs since 1999, 2001 NA, odd yrs before 2012 not shown)

#	Abv	Model	2000	2002	2004	2006	2008	2010	2012	2013	2014	2015	2016	2017	2018	2019	Totals	Avg / yr yrs avail.
1	aaa	degree-day calculator	3219	5697	7536	6836	10007	10520	11559	10511	12884	25702	33827	28822	32453	61423	308,623	16,942
2	aats	T-Sum 200 N fertilization	0	0	0	0	0	0	0	0	0	0	0	0	27	117	144	72
3	acp	asian citrus psyllid	0	0	0	0	0	0	0	244	450	412	311	827	151	266	2,661	380
4	alb	asian longhorned beetle	0	0	0	0	0	0	1	6	0	0	0	119	85	173	384	77
5	am1	apple maggot 1st emerge	0	0	36	76	56	445	311	369	528	324	322	403	261	332	4,201	263
6	am2	apple maggot percent emerge	0	0	14	20	15	62	155	159	252	216	174	150	139	177	1,762	110
7	asc	apple scab infection season	101	135	76	121	184	868	889	1609	2041	1343	1077	1112	1148	1137	13,353	736
8	asp	pear scab infection season	0	355	315	146	102	285	453	381	553	314	261	322	302	231	5,223	290
9	aw1	alfalfa weevil #1	0	0	0	0	0	0	0	0	0	155	294	361	177	372	1,359	272
10	baw	bertha armyworm	5	7	9	10	7	208	165	129	227	133	137	69	48	24	1,318	73
11	bbb	bronze birch borer	0	0	0	0	0	0	0	0	0	0	0	0	0	312	312	312
12	bcw	black cutworm	15	7	10	27	18	294	295	454	599	486	250	225	121	250	3,556	197
13	bms	brown marmorated stink bug	0	0	0	0	0	0	351	465	380	468	309	562	170	318	3,286	365
14	bra	broccoli-Arcadia	0	0	0	0	0	0	0	0	0	45	438	172	130	114	899	180
15	bre	broccoli-Emerald Pride	0	0	0	0	0	0	0	0	0	0	189	70	67	41	369	74
16	brg	broccoli-Green Magic	0	0	0	0	0	0	0	0	0	20	254	161	95	66	596	119
17	bri	broccoli-Imperial	0	0	0	0	0	0	0	0	0	6	98	140	60	50	354	71
18	brl	Barley	0	10	20	10	7	110	56	162	103	64	151	95	54	32	966	54
19	cbl	cabbage looper	3	6	17	73	21	180	157	285	304	115	141	132	73	86	1,830	101
20	cew	corn earworm	16	70	30	103	42	151	262	391	432	338	249	269	112	340	3,191	175
21	cf2	west. cherry fruit fly v2	0	0	0	2	217	302	649	403	828	346	2038	1227	3168	1005	11,011	734
22	cff	western cherry fruit fly	120	160	223	244	189	285	353	544	690	356	289	341	133	141	5,266	286
23	cgn	honeydew moth Crypt. gnidiella	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	11
24	chk	ChickPea Desi intrmd grwth	0	25	3	5	5	5	14	23	65	43	124	112	6	10	457	25
25	cl2	codling moth v2	0	0	0	0	530	880	678	412	623	561	2236	1572	3539	1691	15,001	1,154
26	cl3	codling moth no biofix	0	0	0	0	0	1443	1757	1861	2543	1496	1108	1288	982	1226	15,852	1,441
27	clb	cereal leaf beetle	0	0	0	0	0	347	165	253	470	552	233	314	130	269	3,418	342
28	clm	codling moth	1123	1903	2346	1755	2110	2972	3128	2773	3145	2193	4152	2710	4690	2214	47,799	2,589
29	cm1	cabbage maggot	0	0	0	10	62	291	1054	1550	1517	747	190	354	104	302	7,586	542
30	cmds	cucumber-Mktmore 76 (dir. see	0	0	0	0	0	0	0	0	0	0	79	87	32	105	303	76
31	cnl	Canola-Argentine	0	5	9	12	11	107	12	104	101	165	135	66	18	9	787	46
32	cnp	Canola-Polish indet. growth	0	1	5	5	5	14	10	19	86	44	108	37	8	6	355	21
33	cnr	Canary	0	1	1	1	6	24	7	66	63	36	76	22	7	4	335	22
34	cuco	cucumber-Cobra (dir. seed)	0	0	0	0	0	0	0	0	0	0	76	57	56	53	242	61
35	cntp	cucumber-Mktmore 76 (trnsplar	0	0	0	0	0	0	0	0	0	0	119	44	84	30	277	69
36	cuda	cucumber-Dasher II (dir. seed)	0	0	0	0	0	0	0	0	0	0	33	67	30	31	161	40
37	cuza	cucumber-Zapata (dir. seed)	0	0	0	0	0	0	0	0	0	0	37	12	14	15	78	20
38	cuex	cucumber-Extreme (dir. seed)	0	0	0	0	0	0	0	0	0	0	29	60	44	39	172	43
39	cusu	cucumber-Supremo (dir. seed)	0	0	0	0	0	0	0	0	0	0	17	35	13	23	88	22
40	db	downy brome	46	21	54	63	27	288	320	281	298	155	197	116	26	35	2,824	154
41	dca	Diorhabda carinulata	0	0	0	0	0	0	0	0	0	0	0	200	167	487	854	285
42	dnm	Douglas-fir needle midge	0	0	0	0	0	0	219	473	371	353	180	119	76	148	1,999	222

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43	eab	emerald ash borer	0	0	0	0	0	257	253	516	498	592	387	603	360	1405	5,309	483
44	ebl	early blight of potato	0	0	0	0	0	0	945	1340	1299	590	190	288	71	142	6,887	765
45	egm	european grapevine moth	0	0	0	0	0	79	733	1105	1170	616	398	337	298	401	5,996	600
46	eps	european pine shoot moth	68	39	135	91	71	57	105	322	400	394	145	212	97	262	3,013	164
47	fbf	Fenders blue butterfly	0	0	0	0	0	0	236	116	270	61	167	91	4	29	974	122
48	fbf	cougarblight (fire blight)	300	651	760	263	774	774	505	1019	915	570	962	587	720	534	12,925	700
49	fbw	filbertworm	119	120	159	119	143	567	434	402	412	310	488	399	270	279	5,418	293
50	fcm	false codling moth	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50
51	flx	Flax	0	0	0	7	6	36	5	50	59	42	102	95	16	37	463	31
52	ftl	fruittree leafroller	0	0	0	0	0	17	15	367	892	505	273	229	136	110	2,592	236
53	gca	Galerucella californiensis	0	0	0	0	0	0	0	584	361	88	188	112	301	71	1,705	244
54	gm1	gypsy moth egg hatch	0	0	0	0	9	12	111	161	108	80	139	114	36	64	940	78
55	gm2	gypsy moth larvae & pupae	0	0	0	0	14	13	136	148	61	51	91	135	14	52	825	69
56	gm3	gypsy moth Sheehan-simplified	0	0	0	0	0	475	1194	1516	1968	1848	2112	1854	1733	12331	26,199	2,382
57	hdm	hop downy mildew	0	0	0	0	0	148	392	57	236	185	288	274	231	111	2,982	298
58	hns	hairy nightshade	0	0	0	0	0	0	0	0	0	0	149	78	29	23	279	70
59	ism	isomate-c+	25	14	12	5	7	20	97	21	57	65	122	40	8	104	633	34
60	jft	Japanese flower thrips	0	0	0	0	0	0	0	0	0	0	0	61	85	143	289	96
61	jkp	Japanese knotweed psyllid	0	0	0	0	0	0	0	0	0	0	0	28	11	13	52	17
62	jpb	Japanese beetle	0	0	0	0	0	0	0	0	0	481	203	331	355	446	1,816	363
63	jpsb	Japanese pine sawyer beetle	0	0	0	0	0	0	0	0	0	0	108	222	48	132	510	128
64	lba	light brown apple moth	0	0	0	0	0	0	72	182	272	288	128	231	93	149	1,415	177
65	lbq	lambquarter	0	0	0	0	0	0	0	0	0	0	45	52	35	19	151	38
66	lnt	Lentil-intermed grwth chars	0	3	1	5	1	25	8	17	68	57	100	69	36	7	422	26
67	lsu	Lacanobia fruitworm	0	0	0	4	2	9	9	84	63	38	102	88	10	2	436	31
68	lyg	Lygus bug [alfalfa seed]	0	106	64	80	141	227	177	245	357	329	288	554	372	434	4,132	230
69	mfb	mint flea beetle	7	23	29	23	33	91	85	131	137	80	119	101	25	18	1,066	59
70	mmb	mummy berry infection season	0	0	0	0	0	0	0	0	52	213	78	69	39	35	486	81
71	moc	Metaseiulus occidentalis	5	0	0	17	2	18	6	17	75	47	103	111	16	4	428	30
72	mrb	mint root borer	8	14	22	15	20	65	202	209	288	206	532	162	94	292	2,401	133
73	msj	Mustard-Brwn+Orntl indgrwth	0	0	2	4	1	1	10	15	62	46	83	55	11	7	314	18
74	msy	Mustard-Yellow indet grwth	0	3	1	2	1	6	24	19	66	55	89	60	5	9	364	20
75	nfa	Neoseiulus fallacis	12	7	6	4	3	11	15	67	78	51	76	61	15	8	445	25
76	oab	oak ambrosia beetle	0	0	0	0	0	0	0	0	0	0	83	164	73	223	543	136
77	oat	Oat	0	1	2	5	1	127	26	168	131	51	87	56	18	8	783	44
78	ob2	obliquebanded leafroller no.2	108	613	271	121	67	270	245	270	544	312	2520	1430	3016	920	11,646	640
79	obl	obliquebanded leafroller no.1	15	17	11	11	15	254	235	379	422	204	143	127	75	80	2,332	129
80	ofm	oriental fruit moth	0	0	22	14	25	80	188	229	284	176	1914	1254	3031	797	8,148	479
81	olt	omnivorous leaftier	0	0	0	0	0	0	345	611	548	299	694	125	107	181	2,910	364
82	otc	orange tortrix (cold winter)	17	3	98	34	17	16	8	86	115	78	636	126	25	4	1,352	74
83	otm	orange tortrix (mild winter)	11	47	48	70	53	288	536	289	3623	2038	2200	3174	6371	3030	22,376	1,242
84	owbw	old world bollworm (H armig.)	0	0	0	0	0	0	0	0	0	0	0	0	81	170	251	126
85	pbo	pink bollworm	0	0	0	0	0	0	0	0	0	31	609	46	34	5	725	145

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86	pcb	pecan nut casebearer	0	0	0	0	0	163	12	72	82	206	627	221	59	142	1,712	156
87	pea	Pea (yellow)	0	1	2	5	7	193	413	512	644	542	654	83	75	24	3,384	188
88	plr	Pandemis leafroller	53	29	3	4	6	66	25	76	76	71	2312	1106	2697	658	7,209	398
89	ppbk	Pepper-Bell King	0	0	0	0	0	0	0	0	0	0	0	77	128	37	242	81
90	ppgg	Pepper-Gatherers gold	0	0	0	0	0	0	0	0	0	0	0	24	9	44	77	26
91	ppka	Pepper-King Arthur	0	0	0	0	0	0	0	0	0	0	0	22	41	45	108	36
92	ppsr	Pepper-Stocky red roaster	0	0	0	0	0	0	0	0	0	0	0	26	22	19	67	22
93	ppsy	potato psyllid	0	0	0	0	0	0	0	0	0	0	0	180	57	162	399	133
94	ppsb	pine shoot beetle	0	0	0	0	0	0	0	0	0	0	0	0	0	61	61	61
95	ptb	peach twig borer	0	0	0	0	46	127	105	209	220	160	2414	1246	3021	912	8,580	715
96	ptlm	pine tree lappet moth	0	0	0	0	0	0	0	0	0	0	604	208	80	140	1,032	258
97	rpw	redroot pigweed	0	0	0	0	0	0	0	0	0	0	601	78	49	31	759	190
98	saf	Safflower (Saffire)	0	51	3	9	2	0	6	18	58	43	627	106	118	2	1,074	67
99	sbr	small broomrape	0	0	6	6	11	5	62	65	93	102	659	103	113	52	1,459	91
100	scn	sweet corn-Jubilee-dir. seed	34	79	276	349	617	341	394	781	596	362	941	599	444	648	7,871	434
101	scls	sweet corn-Luscious-dir. seed	0	0	0	0	0	0	0	0	0	0	0	0	0	34	34	34
102	scltp	sweet corn-Luscious-trnsplant	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25
103	scsds	sweet corn-Sug. Pearl-dir. seed	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21
104	scstp	sweet corn-Sug. Pearl-trnsplant	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25
105	scfds	sweet corn-4001-dir. seed	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50
106	sckds	sweet corn-Kokanee-dir. seed	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	16
107	sj	San Jose scale	195	328	205	41	73	112	94	126	183	107	2331	1231	3001	891	9,475	515
108	sli	Spodoptera litura com cutworm	0	1	3	0	0	0	0	0	0	0	0	32	81	186	310	44
109	snf	Sunflower early maturing only	0	2	4	3	6	8	42	46	86	69	643	117	18	85	1,167	65
110	sr	sugarbeet root maggot	0	70	47	56	12	45	52	125	168	63	702	122	42	23	1,702	95
111	srw	strawberry root weevil	38	39	39	21	13	39	144	143	158	120	676	88	28	20	1,841	99
112	srx	strawberry root weevil (mint)	0	0	13	20	33	179	125	185	132	143	676	264	40	32	2,590	162
113	ssw	sunflower stem weevil	0	0	0	0	0	0	16	99	78	62	643	133	56	101	1,218	135
114	stb	small tomato borer	0	0	0	0	0	0	0	0	0	0	0	0	49	199	248	124
115	swd	spotted wing Drosophila	0	0	0	0	0	1808	3125	5319	9660	8767	11052	3284	4330	1706	52,562	5,256
116	sww	testng spot wing Dros new	0	0	0	0	0	0	0	0	83	94	611	183	47	10	1,028	171
117	swo	spot. wing Dros. OW Mortal.	0	0	0	0	0	0	0	116	139	97	759	184	69	37	1,401	200
118	tabs	tomato leafminer (T. absoluta)	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	5
119	tbb	Tomato-Big Beef	0	0	0	0	0	0	0	0	0	0	0	0	0	242	242	242
120	tir	Tomato-Indigo Rose	0	0	0	0	0	0	0	0	0	0	0	0	0	67	67	67
121	tmo	Tomato-Monica	0	0	0	0	0	0	0	0	0	0	0	0	0	38	38	38
122	tng	Tomato-New Girl	0	0	0	0	0	0	0	0	0	0	0	0	0	78	78	78
123	tcah	threecornered alfalfa hopper	0	0	0	0	0	0	0	0	0	0	16	364	240	277	897	224
124	vcw	variegated cutworm	11	13	14	8	7	96	293	429	561	332	805	224	139	317	3,773	209
125	wbc	western bean cutworm	0	0	0	0	0	103	138	298	254	183	693	255	64	131	2,317	232
126	wft	western flower thrips	0	0	0	0	0	0	1029	1214	1280	787	1215	920	630	816	8,333	926
127	whb	Wheat (Bauer spring wheat)	0	0	0	0	0	0	17	75	149	62	625	217	221	60	1,426	178
128	whf	walnut husk fly	0	0	0	0	12	96	50	127	145	77	656	192	140	52	1,615	135

129	whr	Wheat R	0	27	25	63	33	290	133	132	269	111	684	162	126	48	2,821	157
130	wht	winter wheat	40	94	36	73	108	382	186	411	543	318	797	452	322	233	5,125	282
																		Avg / yr
			<u>2000</u>	<u>2002</u>	<u>2004</u>	<u>2006</u>	<u>2008</u>	<u>2010</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	Totals	Yrs avail.
		Totals	9,714	14,802	17,031	15,083	20,029	32,097	40,857	49,273	65,129	65,173	104,134	73,593	87,997	109,696	822,398	281
		Count # phenology models	29	44	50	54	59	68	79	82	83	89	104	114	117	132	(exc. calculator)	