

Oregon IPM Center – USPest.org web-based DD Model/calculator usage by species/model – Jan 26, 2024 (showing only even years before 2020)

Model/calculator usage by species (grouped by type: pests, invasive, beneficials, plant diseases, weeds, crops)																Totals incl.	Avg/year for
Abbrev	Species/model	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020	2021	2022	2023	odd years	years avail.
aaa	degree-day calculator	3219	5697	7536	6836	10007	10520	11559	12884	28784	32453	35913	31108	30334	30847	401,300	16,721
aats	T-Sum 200 N fertilization	0	0	0	0	0	0	0	0	0	27	91	87	105	225	652	109
acp	asian citrus psyllid	0	0	0	0	0	0	0	450	311	151	172	288	93	176	3,390	308
alb	asian longhorned beetle	0	0	0	0	0	0	1	0	0	85	112	183	121	301	1,101	122
am1	apple maggot 1st emerge	0	0	36	76	56	445	311	528	322	261	416	491	1463	1794	8,365	418
am2	apple maggot percent emerge	0	0	14	20	15	62	155	252	174	139	221	359	908	908	4,158	208
aw1	alfalfa weevil #1	0	0	0	0	0	0	0	0	294	177	282	399	659	815	3,514	390
baw	bertha armyworm	5	7	9	10	7	208	165	227	137	48	46	91	439	420	2,314	96
bbb	bronze birch borer	0	0	0	0	0	0	0	0	0	0	196	96	777	2119	3,502	700
bcw	black cutworm	15	7	10	27	18	294	295	599	250	121	145	279	536	750	5,266	219
bms	brown marmorated stink bug	0	0	0	0	0	0	351	380	309	170	243	477	1853	2849	8,708	670
cbl	cabbage looper	3	6	17	73	21	180	157	304	140	73	57	128	282	366	2,662	111
cew	corn earworm	16	70	30	103	42	151	262	432	248	112	121	265	467	594	4,637	193
cf2	west. cherry fruit fly v2	0	0	0	2	217	302	649	828	1888	3168	496	932	807	1083	14,270	751
cff	western cherry fruit fly	120	160	223	244	189	285	353	690	289	133	202	252	195	194	6,109	255
clm	codling moth	1123	1903	2346	1755	2110	2972	3128	3145	3435	4690	2606	3305	4035	4218	61,339	2,556
cl2	codling moth v2	0	0	0	0	530	880	678	623	2086	3539	1346	1937	1959	2828	23,010	1,354
cl3	codling moth no biofix	0	0	0	0	0	1443	1757	2543	1108	982	1725	1949	1760	2441	23,726	1,582
clb	cereal leaf beetle	0	0	0	0	0	347	165	470	233	130	49	67	256	370	4,160	297
cm1	cabbage maggot	0	0	0	10	62	291	1054	1517	190	104	230	309	207	350	8,682	482
cpyr	Pear psylla	0	0	0	0	0	0	0	0	0	0	0	0	732	1122	1,854	927
dnm	Douglas-fir needle midge	0	0	0	0	0	0	219	371	180	76	101	48	117	405	2,671	205
eab	emerald ash borer	0	0	0	0	0	257	253	498	387	360	447	418	899	2330	9,403	627
eab2	emerald ash borer v2	0	0	0	0	0	0	0	0	0	0	0	0	0	2450	2,450	2,450
egm	european grapevine moth	0	0	0	0	0	79	733	1170	398	298	81	193	114	112	6,496	464
eps	european pine shoot moth	68	39	135	91	71	57	105	400	145	97	97	172	492	496	4,271	178
fbw	filbertworm	119	120	159	119	143	567	434	412	488	270	381	351	796	618	7,564	315
ftl	fruittree leafroller	0	0	0	0	0	17	15	892	272	136	139	101	96	111	3,038	203
gm1	spongy moth egg hatch	0	0	0	0	9	12	111	108	139	36	32	68	282	456	1,778	111
gm2	spongy moth larvae & pupae	0	0	0	0	14	13	136	61	91	14	46	118	64	217	1,269	79
gm3	spongy moth Sheehan-simplifi	0	0	0	0	0	475	1194	1968	1529	1733	1963	1855	1455	2799	26,114	1,741
ism	isomate-c+	25	14	12	5	7	20	97	57	122	8	18	8	94	28	781	33
jft	Japanese flower thrips	0	0	0	0	0	0	0	0	0	85	32	174	38	8	541	77
jpb	Japanese beetle	0	0	0	0	0	0	0	0	203	355	369	339	1088	2580	6,190	688
lsu	Lacanobia fruitworm	0	0	0	4	2	9	9	63	102	10	7	100	227	209	979	54
lyg	Lygus bug [alfalfa seed]	0	106	64	80	141	227	177	357	288	372	260	251	578	575	5,796	263
mfb	mint flea beetle	7	23	29	23	33	91	85	137	119	25	19	22	46	56	1,209	53

mrb	mint root borer	8	14	22	15	20	65	202	288	532	94	169	151	134	94	2,949	128
ob2	obliquebanded leafroller no.2	108	613	271	121	67	270	245	544	1802	3016	442	751	794	1374	14,379	599
obl	obliquebanded leafroller no.1	15	17	11	11	15	254	235	422	143	75	46	123	236	284	3,021	126
ofm	oriental fruit moth	0	0	22	14	25	80	188	284	1763	3031	498	816	1117	1475	11,993	571
olt	omnivorous leaftier	0	0	0	0	0	0	345	548	162	107	84	135	313	266	3,178	265
otc	orange tortrix (cold winter)	17	3	98	34	17	16	8	115	104	25	6	6	126	145	1,103	46
otm	orange tortrix (mild winter)	11	47	48	70	53	288	536	3623	1511	6371	2238	2867	1795	3627	32,489	1,354
pbo	pink bollworm	0	0	0	0	0	0	0	0	78	34	4	8	83	82	371	41
pcb	pecan nut casebearer	0	0	0	0	0	163	12	82	96	59	25	139	32	156	1,533	102
plr	Pandemis leafroller	53	29	3	4	6	66	25	76	1641	2697	292	590	1187	1341	10,032	436
ppsy	potato psyllid	0	0	0	0	0	0	0	0	0	57	16	107	132	160	814	116
ptb	peach twig borer	0	0	0	0	46	127	105	220	1733	3021	432	691	711	1297	11,120	695
scmg	seedcorn maggot	0	0	0	0	0	0	0	0	0	0	0	0	171	258	429	215
sjs	San Jose scale	195	328	205	41	73	112	94	183	1650	3001	451	697	1200	1854	13,086	545
srm	sugarbeet root maggot	0	70	47	56	12	45	52	168	171	42	33	20	25	44	1,293	59
srw	strawberry root weevil	38	39	39	21	13	39	144	158	145	28	21	27	128	101	1,587	66
srx	strawberry root weevil (mint)	0	0	13	20	33	179	125	132	145	40	27	51	303	261	2,701	135
ssw	sunflower stem weevil	0	0	0	0	0	0	16	78	112	56	8	96	9	140	940	72
swd	spotted wing Drosophila	0	0	0	0	0	1808	3125	9660	10464	4330	1021	1687	1660	1583	57,928	4,138
sww	testng spot wing Dros new	0	0	0	0	0	0	0	83	80	47	11	18	8	5	539	54
swo	spot. wing Dros. OW Mortal.	0	0	0	0	0	0	0	139	228	69	18	53	42	54	1,037	94
tcah	threecornered alfalfa hopper	0	0	0	0	0	0	0	0	16	240	77	159	35	157	1,325	166
vcw	variegated cutworm	11	13	14	8	7	96	293	561	274	139	155	276	538	635	4,846	202
wbc	western bean cutworm	0	0	0	0	0	103	138	254	163	64	35	156	56	166	2,200	157
wft	western flower thrips	0	0	0	0	0	0	1029	1280	684	630	670	629	679	848	10,629	818
whf	walnut husk fly	0	0	0	0	12	96	50	145	125	140	88	58	25	15	1,270	79
asrb	asiatic rice borer	0	0	0	0	0	0	0	0	0	0	33	96	36	2	167	42
bxlm	boxwood leafminer	0	0	0	0	0	0	0	0	0	0	0	0	0	203	203	203
cgn	honeydew moth Crypt. gnidiell	0	0	0	0	0	0	0	0	0	0	28	102	26	5	172	34
ecw	egyptian cottonworm	0	0	0	0	0	0	0	0	0	0	36	106	56	54	252	63
fcm	false codling moth	0	0	0	0	0	0	0	0	0	0	43	84	20	28	225	45
jpsb	Japanese pine sawyer beetle	0	0	0	0	0	0	0	0	108	48	57	104	26	3	700	88
lba	light brown apple moth	0	0	0	0	0	0	72	272	128	93	126	100	48	32	1,721	143
oab	oak ambrosia beetle	0	0	0	0	0	0	0	0	83	73	71	104	147	356	1,221	153
owbw	old world bollworm (H armig.)	0	0	0	0	0	0	0	0	0	81	46	227	91	94	709	118
ppsb	pine shoot beetle	0	0	0	0	0	0	0	0	0	0	38	159	31	93	382	76
ptlm	pine tree lappet moth	0	0	0	0	0	0	0	0	74	80	67	103	27	3	702	88
slf	spotted lanternfly	0	0	0	0	0	0	0	0	0	0	0	0	0	269	269	269
sli	Spodoptera litura com cutworr	0	1	3	0	0	0	0	0	0	81	40	197	24	46	617	56
slym	Autographa gamma silver Y m	0	0	0	0	0	0	0	0	0	0	33	126	83	58	300	75
stb	small tomato borer	0	0	0	0	0	0	0	0	0	49	72	108	20	11	459	77

sunp	sunn pest (E. integriceps)	0	0	0	0	0	0	0	0	0	0	7	89	35	2	133	33
tabs	tomato leafminer (T. absoluta)	0	0	0	0	0	0	0	0	0	0	66	147	52	43	313	63
dca	Diorhabda carinulata	0	0	0	0	0	0	0	0	0	167	262	648	677	713	3,223	460
fbf	Fenders blue butterfly	0	0	0	0	0	0	236	270	167	4	9	31	10	9	1,033	86
gca	Galerucella californiensis	0	0	0	0	0	0	0	361	188	301	6	29	261	225	2,226	202
jkp	Japanese knotweed psyllid	0	0	0	0	0	0	0	0	0	11	24	36	336	726	1,174	168
moc	Metaseiulus occidentalis	5	0	0	17	2	18	6	75	103	16	8	4	10	5	455	24
nfa	Neoseiulus fallacis	12	7	6	4	3	11	15	78	76	15	6	18	374	400	1,243	57
asc	apple scab infection season	101	135	76	121	184	868	889	2041	1077	1148	586	473	796	1185	16,393	683
asp	pear scab infection season	0	355	315	146	102	285	453	553	261	302	261	238	206	712	6,639	302
ebi	early blight of potato	0	0	0	0	0	0	945	1299	189	71	127	179	184	304	7,680	591
fbl	cougarblight (fire blight)	300	651	760	263	774	774	505	915	951	720	648	452	428	323	14,771	615
hdm	hop downy mildew	0	0	0	0	0	148	392	236	288	231	110	131	1301	1635	6,158	440
mmb	mummy berry infection season	0	0	0	0	0	0	0	52	78	39	49	166	345	375	1,421	142
db	downy brome	46	21	54	63	27	288	320	298	197	26	70	67	51	56	3,068	133
hns	hairy nightshade	0	0	0	0	0	0	0	0	149	29	10	32	27	15	363	45
jkw	Japanese knotweed	0	0	0	0	0	0	0	0	0	0	0	0	0	60	60	60
lbq	lambquarter	0	0	0	0	0	0	0	0	45	35	22	43	96	83	395	49
rpw	redroot pigweed	0	0	0	0	0	0	0	0	70	49	47	68	133	158	634	79
sbr	small broomrape	0	0	6	6	11	5	62	93	128	113	50	55	88	78	1,199	60
bnfs	bean (snap)-5630	0	0	0	0	0	0	0	0	0	0	67	138	272	422	899	225
bnpr	bean (snap)-Provider	0	0	0	0	0	0	0	0	0	0	94	94	305	333	826	207
bnsa	bean (snap)-Sahara	0	0	0	0	0	0	0	0	0	0	54	28	68	122	272	68
bra	broccoli-Arcadia	0	0	0	0	0	0	0	0	438	130	172	126	126	192	1,515	168
bre	broccoli-Emerald Pride	0	0	0	0	0	0	0	0	189	67	112	65	124	196	866	96
brg	broccoli-Green Magic	0	0	0	0	0	0	0	0	254	95	252	84	38	57	1,027	114
bri	broccoli-Imperial	0	0	0	0	0	0	0	0	98	60	96	48	56	101	655	73
cmds	cucumber-Mkmore 76 (dir. seed)	0	0	0	0	0	0	0	0	79	32	62	67	106	69	607	76
cuco	cucumber-Cobra (dir. seed)	0	0	0	0	0	0	0	0	76	56	69	79	123	130	643	80
cmtp	cucumber-Mkmore 76 (trnspl)	0	0	0	0	0	0	0	0	119	84	35	34	37	79	462	58
cuda	cucumber-Dasher II (dir. seed)	0	0	0	0	0	0	0	0	33	30	11	15	37	126	350	44
cuza	cucumber-Zapata (dir. seed)	0	0	0	0	0	0	0	0	37	14	37	10	17	23	165	21
cuex	cucumber-Extreme (dir. seed)	0	0	0	0	0	0	0	0	29	44	9	9	9	5	204	26
cusu	cucumber-Supremo (dir. seed)	0	0	0	0	0	0	0	0	17	13	11	55	9	58	221	28
ppbk	pepper-Bell King	0	0	0	0	0	0	0	0	0	128	38	47	193	428	948	135
ppgg	pepper-Gatherers gold	0	0	0	0	0	0	0	0	0	9	16	50	44	192	379	54
ppka	pepper-King Arthur	0	0	0	0	0	0	0	0	0	41	23	26	46	177	380	54
ppsr	pepper-Stocky red roaster	0	0	0	0	0	0	0	0	0	22	77	53	41	153	391	56
scn	sweet corn-Jubilee-dir. seed	34	79	276	349	617	341	394	596	410	444	351	555	203	205	8,654	361
scls	sweet corn-Luscious-dir. seed	0	0	0	0	0	0	0	0	0	0	164	238	154	212	802	160
scltp	sweet corn-Luscious-trnsplant	0	0	0	0	0	0	0	0	0	0	34	129	26	208	422	84

scsds	sweet corn-Sug. Pearl-dir. see	0	0	0	0	0	0	0	0	0	0	0	60	146	28	202	457	91
scstp	sweet corn-Sug. Pearl-trnsplan	0	0	0	0	0	0	0	0	0	0	0	40	114	22	144	345	69
scfds	sweet corn-4001-dir. seed	0	0	0	0	0	0	0	0	0	0	0	578	248	48	222	1,146	229
sckds	sweet corn-Kokanee-dir. seed	0	0	0	0	0	0	0	0	0	0	0	100	168	33	128	445	89
tbb	tomato-Big Beef	0	0	0	0	0	0	0	0	0	0	0	227	164	303	471	1,407	281
tir	tomato-Indigo Rose	0	0	0	0	0	0	0	0	0	0	0	123	124	157	694	1,165	233
tmo	tomato-Monica	0	0	0	0	0	0	0	0	0	0	0	49	39	51	223	400	80
tng	tomato-New Girl	0	0	0	0	0	0	0	0	0	0	0	115	63	84	231	571	114
brl	Barley	0	10	20	10	7	110	56	103	151	54	61	54	272	363	1,716	78	
chk	ChickPea Desi intrmd grwth	0	25	3	5	5	5	14	65	124	6	4	14	7	10	492	22	
cnl	Canola-Argentine	0	5	9	12	11	107	12	101	135	18	4	11	11	6	819	39	
cnp	Canola-Polish indet. growth	0	1	5	5	5	14	10	86	108	8	5	5	7	5	377	18	
cnr	Canary	0	1	1	1	6	24	7	63	76	7	3	4	4	6	352	19	
flx	Flax	0	0	0	7	6	36	5	59	102	16	13	6	6	6	494	26	
lnt	Lentil-intermed grwth chars	0	3	1	5	1	25	8	68	100	36	4	12	6	10	454	23	
msj	Mustard-Brwn+Orntl indgrwth	0	0	2	4	1	1	10	62	83	11	2	6	33	4	359	17	
msy	Mustard-Yellow indet grwth	0	3	1	2	1	6	24	66	89	5	2	8	9	6	389	18	
oat	Oat	0	1	2	5	1	127	26	131	87	18	16	19	33	21	872	40	
pea	Pea (yellow)	0	1	2	5	7	193	413	644	122	75	27	58	43	26	3,006	137	
saf	Safflower (Saffire)	0	51	3	9	2	0	6	58	96	118	11	18	10	12	594	30	
snf	Sunflower early maturing only	0	2	4	3	6	8	42	86	114	18	5	125	15	179	962	44	
whb	Wheat (Bauer spring wheat)	0	0	0	0	0	0	17	149	94	221	30	41	74	42	1,082	90	
whr	Wheat R	0	27	25	63	33	290	133	269	153	126	58	55	329	345	3,077	140	
wht	winter wheat	40	94	36	73	108	382	186	543	266	322	137	287	236	485	5,739	239	

Totals incl. Avg/year for

	<u>2000</u>	<u>2002</u>	<u>2004</u>	<u>2006</u>	<u>2008</u>	<u>2010</u>	<u>2012</u>	<u>2014</u>	<u>2016</u>	<u>2018</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	odd years	years avail.
Totals:	5,714	10,798	13,023	11,071	16,013	28,077	36,833	61,101	76,522	83,961	62,044	65,792	75,813	100,335	990,149	57,466
Count # phenology models	27	42	48	52	57	66	77	81	102	115	137	137	139	143	143	

Totals incl. Avg/year for

Total runs by model type:	<u>2000</u>	<u>2002</u>	<u>2004</u>	<u>2006</u>	<u>2008</u>	<u>2010</u>	<u>2012</u>	<u>2014</u>	<u>2016</u>	<u>2018</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	odd years	years avail.
Total DD Calculator Runs	3,219	5,697	7,536	6,836	10,007	10,520	11,559	12,884	28,784	32,453	35,913	31,108	30,334	30,847	401,300	16,721
Total Insect Models	1,974	3,636	3,886	3,078	4,091	13,520	20,345	39,581	40,626	46,390	20,602	28,954	37,864	56,950	482,008	33,083
Total Plant Disease Models	401	1,141	1,151	530	1,060	2,075	3,184	5,096	2,844	2,511	1,781	1,639	3,260	4,534	53,062	2,773
Total Weed Models	46	21	60	69	38	293	382	391	589	252	199	265	395	450	5,719	427
Total CROPTIME veg. Model:	34	79	276	349	617	341	394	596	1,779	1,269	3,076	3,016	2,760	5,803	26,624	3,374
Total Agronomic crop model	40	224	114	209	200	1,328	969	2,553	1,900	1,059	382	723	1,095	1,526	20,784	978
Total All Models	5,714	10,798	13,023	11,071	16,013	28,077	36,833	61,101	76,522	83,961	62,044	65,792	75,813	100,335	990,149	57,466

Interfaces used to run degree-day models:

Interface description	2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020	2021	2022	Totals incl.		Avg/year
														2023	odd years	yrs avail.
email push service	0	0	0	0	0	0	0	0	0	0	0	608	18,863	33,862	53,333	17,778
dd/mod_app mobile app interface	0	0	0	0	0	0	0	0	0	0	15,266	16,789	20,603	24,186	79,794	15,959
dd/model multi start-date interface	0	0	0	0	0	0	0	1	5,534	10,764	4,857	3,806	4,480	5,975	61,741	6,174
cgi-bin/ddmodel.us legacy interface	4,576	8,401	7,756	7,499	9,953	8,635	9,417	12,186	15,844	15,715	15,893	12,891	11,537	12,319	248,719	10,787
risk/models "MyPest Page" interface	0	0	0	0	0	5,408	11,943	12,549	18,206	18,341	15,697	25,414	13,845	26,009	232,257	16,590
cgi-bin/glinks (map) access interface	0	238	784	1,112	2,441	3,089	2,131	1,411	2,082	2,937	2,259	2,164	2,287	1,641	42,497	1,932
index State Network pages interface	17	180	1,555	575	2,273	4,001	3,696	2,570	1,494	1,823	1,904	1,761	2,962	22,098	72,338	3,145
direct run from google	0	2	0	0	0	5	61	51	49	85	102	9	52	200	962	64
viewdb species database page	0	0	0	0	0	0	106	174	860	629	942	830	2,783	4,903	12,256	943
insects? pnw insect handbook interfac	0	0	0	0	0	199	516	0	0	0	0	0	0	0	1,308	327
all other unspecified interfaces	2,588	2,418	3,334	2,735	4,434	11,684	13,621	39,032	95,135	121,043	52,914	73,610	123,314	243,601	1,017,962	44,253

Model/calculator usage by month (since 2016)

Month	Month	2016	2017	2018	2019	2020	2021	2022	2023	Totals	Percent
1	January	5,541	6,792	9,191	8,904	5,872	3,911	5,970	11,793	57,974	5.5%
2	February	10,047	11,538	10,308	12,769	8,372	14,654	7,739	24,106	99,533	9.5%
3	March	10,772	14,253	19,840	8,567	7,912	11,118	16,791	32,799	122,052	11.6%
4	April	14,092	16,943	16,951	9,409	8,307	12,851	14,979	25,895	119,427	11.4%
5	May	13,030	16,298	14,384	11,683	10,267	13,367	14,217	23,512	116,758	11.1%
6	June	10,114	12,502	15,178	8,989	9,104	8,613	16,078	30,149	110,727	10.5%
7	July	7,975	6,379	11,978	7,230	8,502	6,691	13,490	26,388	88,633	8.4%
8	August	7,722	5,146	7,673	5,493	5,400	6,146	12,161	21,803	71,544	6.8%
9	September	8,969	5,066	7,558	4,905	4,013	5,108	11,520	15,021	62,160	5.9%
10	October	11,828	4,606	10,183	6,197	7,240	7,343	11,128	13,618	72,143	6.9%
11	November	8,453	6,822	10,979	10,906	3,726	5,273	10,757	12,743	69,659	6.6%
12	December	7,677	6,286	10,882	6,820	3,958	6,354	8,752	8,832	59,561	5.7%
										1,050,171	