

Table 23. Production Practices on Certified Organic Farms: 2019

[For meaning of abbreviations and symbols, see introductory text.]

Geographic area	Released beneficial organisms (farms)	Maintained beneficial insect/vertebrate habitat (farms)	Selected planting locations to avoid pests (farms)	Chose pest resistant varieties (farms)	Planned plantings to avoid cross-contamination (farms)	Produced or used organic mulch/compost (farms)
United States	2,504	4,703	4,962	4,809	3,872	5,737
Alabama	1	3	8	7	8	6
Alaska	-	2	4	4	-	2
Arizona	13	23	22	20	10	36
Arkansas	7	11	9	5	3	8
California	709	1,288	836	837	373	1,509
Colorado	63	91	97	109	76	93
Connecticut	15	29	40	30	13	36
Delaware	3	5	4	5	6	1
Florida	38	62	60	60	26	54
Georgia	15	49	53	46	23	53
Hawaii	39	42	45	51	12	67
Idaho	28	68	62	82	55	65
Illinois	22	62	79	84	140	47
Indiana	68	84	112	100	129	93
Iowa	44	97	178	206	283	149
Kansas	13	26	40	35	40	28
Kentucky	38	49	68	61	54	70
Louisiana	1	2	1	4	3	4
Maine	82	151	183	156	71	218
Maryland	24	39	44	45	43	47
Massachusetts	36	60	54	62	23	67
Michigan	53	131	173	144	180	195
Minnesota	40	158	202	242	294	168
Mississippi	-	1	-	1	1	3
Missouri	38	41	59	32	68	66
Montana	33	63	87	101	69	56
Nebraska	27	65	80	86	145	50
Nevada	8	16	14	15	14	18
New Hampshire	18	17	20	27	14	27
New Jersey	14	28	33	31	11	39
New Mexico	32	45	47	53	37	49
New York	180	279	346	303	261	457
North Carolina	55	123	137	112	82	82
North Dakota	7	25	43	30	44	19
Ohio	72	151	194	199	182	208
Oklahoma	4	10	12	8	8	10
Oregon	97	205	166	171	83	215
Pennsylvania	116	176	272	265	289	220
Rhode Island	8	14	16	18	10	16
South Carolina	8	22	12	20	12	24
South Dakota	3	19	26	19	30	20
Tennessee	5	18	23	19	17	20
Texas	25	40	65	70	63	104
Utah	9	10	16	15	15	14
Vermont	57	105	116	103	47	185
Virginia	29	58	81	78	49	47
Washington	164	374	287	231	99	368
West Virginia	3	5	9	9	7	8
Wisconsin	138	257	417	369	333	384
Wyoming	2	4	10	29	17	12

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Table 23. **Production Practices on Certified Organic Farms: 2019** (continued)

[For meaning of abbreviations and symbols, see introductory text.]

Geographic area	Used animal manures (farms)	Planted green manures (farms)	Planted cover crops (farms)	Used no-till or minimum till (farms)	Maintained buffer strips (farms)	Used water management practices (farms)	Practiced rotational grazing (farms)
United States	9,160	7,564	4,955	5,970	10,796	7,880	4,792
Alabama	3	8	5	4	8	8	5
Alaska	1	2	1	1	5	5	-
Arizona	23	21	6	25	39	54	2
Arkansas	16	5	6	10	13	13	16
California	835	1,014	690	1,487	1,588	2,309	335
Colorado	126	85	70	109	173	170	47
Connecticut	21	41	31	34	29	39	6
Delaware	6	7	6	3	10	7	5
Florida	41	37	26	52	85	103	10
Georgia	41	46	31	47	74	81	4
Hawaii	31	41	31	72	84	58	5
Idaho	123	87	37	92	185	188	45
Illinois	184	174	110	87	213	80	51
Indiana	483	383	190	151	368	103	359
Iowa	598	455	230	195	640	225	214
Kansas	45	50	32	49	98	44	12
Kentucky	132	120	78	86	138	96	88
Louisiana	7	1	2	7	5	3	5
Maine	229	219	168	178	180	170	147
Maryland	66	71	47	45	91	63	40
Massachusetts	54	69	50	49	61	80	35
Michigan	415	357	200	157	424	205	169
Minnesota	502	373	248	211	542	205	196
Mississippi	15	6	3	5	9	1	9
Missouri	253	181	93	74	220	77	104
Montana	75	101	61	78	151	74	48
Nebraska	146	127	78	79	208	126	57
Nevada	9	16	11	11	18	32	2
New Hampshire	40	23	26	26	25	29	27
New Jersey	23	35	29	33	42	43	4
New Mexico	53	44	30	59	61	85	15
New York	934	572	397	424	820	432	674
North Carolina	110	125	100	89	174	162	24
North Dakota	53	55	38	35	108	12	31
Ohio	643	468	268	229	571	227	342
Oklahoma	12	14	7	10	17	12	9
Oregon	150	181	167	187	288	337	87
Pennsylvania	696	527	351	301	641	323	415
Rhode Island	-	14	10	12	12	14	1
South Carolina	16	23	10	16	26	27	7
South Dakota	35	38	31	22	59	18	27
Tennessee	18	27	20	24	20	29	10
Texas	130	78	42	64	162	177	20
Utah	16	19	14	12	36	21	10
Vermont	294	143	108	142	296	179	215
Virginia	71	78	72	71	118	102	46
Washington	265	255	255	374	544	572	100
West Virginia	10	9	4	10	10	11	8
Wisconsin	1,092	725	426	413	1,052	429	692
Wyoming	19	14	9	19	55	20	12