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🕆 STATUS OF THE LUROPEAN CORN BORER IN 1948 👘

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### Distribution ·

In 1948 the distribution of the European born borer (Pyrausta nubilalis-(Hbn.)) was extended 116 counties. One State, Louisiana, was added to the list. A total of 1167 counties and one parish in 29 States are now known to be infested by the corn borer. The known distribution of the corn borer in the United States, and the counties where infestations were reported for the first time in 1948 are shown on Map 1.

A total of 95 of the new county infestations were west of the Mississippi River, and 10 were east of the river in Kentucky and Tennessee. Mine new county infestations were reported from the Eastern States of Maryland, West Virginia, Virginia, and North Carolina.

Missouri, South Dakota, and Nebraska reported 35, 34, and 20 new county infestations, respectively. Minnesota and North Dakota reported 2 each, and Kansas reported 1.

1/The field data presented in this report was obtained by State agencies and the Bureau of Entomology and Plant Quarantine. In many cases State and Federal workers cooperated in the field in making observations. The data were assembled and tabulated at the European Corn Borer Research Laboratory, Tolédo, Ohio, Wm. G. Bradley in charge. State Agencies that contributed data and assistance were as follows: State Agricultural Experiment Stations of Connecticut, Delaware, Iowa, Kentucky, Massachusetts, Missouri, New York, North Dakota, Ohio, South Dakota, Virginia, and West Virginia; State departments of agriculture of Maine, Haryland, Minnesota, New Hampshire, New Jersey, North Carolina, Pennsylvania, Rhode Island, Tennessee, Virginia, West Virginia, Vermont, and Wisconsin; Illinois, Natural History Survey; Indiana Department of Conservation; Entomological Commission of Kansas; and the Extension Services of Michigan, Missouri, Nebraska, and Pennsylvania. An infestation was reported in the Parish of St. John the Baptist, in Louisiana. One specimen of the corn borer was taken from corn near the town of Laplace, approximately 450 miles from the nearest infested counties in Tennessee and Missouri.

The following list gives the States and counties from which the pest was reported for the first time in 1948:

Woodson St. Clair Clay St. Francois Codington	
Kentucky: Davison	
Christian Stoddard Day	
Hopkins Sullivan Deuel	
Trigg Vernon Douglas	
Warren Edmunds	
Louisiana: Washington Faulk	
St. John the Baptist Worth Grant	
(Parish) Hamlin	
Nebraska: Hand	
Maryland: Adams Hanson	
Garrett Buffalo Hutchinson	
Clay Jerauld	
Michigan: Dawson Kingsbury	
Grand Traverse Fillmore Lake	
Franklin Lyman	
Minnesota: Furnas McCook	
Lake of the Woods Gage Marshall	
Roseau Harlan Miner	
· Jefferson Moody -	
Missouri: Kearney Roberts	
Atchison Lincoln Sanborn	
Bates Madison Spink	
Bollinger Nuckolls Turner	
Boone Redwillow Yankton	
Cass Thayer Clay Thurston Tennessee:	
Cooper York Dickson Crawford Houston	
Henry Martin Macon . Howard Stewart	
Iron North Dakota: Johnson La Moure Virginia:	
2	
	•
Mercer Aurora Washington	
Miller Beadlo	
Osage Bon Homme West Virginia:	
Pettis Brookings Berkeley	
Phelps Brown Harrison Warentha	
Platte Brule Kanawha	
Pulaski Charles Mix Nicholas	
Ray Clark	

#### Abundance

In the fall of 1948 agencies in 26 States cooperated with the Bureau of Entomology and Plant Quarantine in making corn borer-abundance surveys. Examinations were made in 635 counties by State and Federal workers. Most States followed a recommended standard procedure of taking 10 field samples per county.

The standard field sample was the same as that used in previous years. It consisted of the examination of 25 consecutive plants to determine the percentage of plants infested. Two infested plants in each sample were dissected to determine the number of borers per infested plant. The product of the percentage of infestation and the number of borers per plant, expressed as borers per 100 plants, was used to denote a field population. The average of the field populations is given in this report as the mean population for each county or section.

In the Maine and Pannsylvania surveys more than 25 plants were examined and more than 2 plants per field were dissected. The number of field samples per county varied from 2 to 58 in Maine, and 12 to 20 in Pennsylvania.

The standard field sample was used in Delaware, but 20 were taken in each county.

In Iowa 50 standard samples were taken in each of 12 corn-testing districts. The number of field samples per county varied from 4 to 10.

The standard procedure of examining 10 fields was followed in 32 of the southern counties of Minnesota, and 5 standard samples were taken in each of the other 28 counties.

In the Michigan, Missouri, and South Dakota surveys a varying number of standard samples were taken per county.

A summary of all State surveys is given in table 1, and abundance of the borer is shown on map 2. The data which were taken in the various surveys are given in table 2. Table 1.--Summary by States of European corn borer abundance in corn, fall .of 1948, compared with data for 1947

					Countio		
1947		19	48	Counties surveyed both years			
State	Number of	and the second se	Number of		Number of		rers
	counties	number of	counties	number of	counties		100
	surveyed	borers per	surveyed	borers per			ants
	Ū	100 plants		100 plants		1947	1948
			1			<u>h</u>	
Connecticut	8	22	8	· 31	8	22	31
Delaware	· 3	85	3	88	3	62	88
Illinois	37	136	37	137	37	136	137
Indiana	70	67	70	68	70	67	68
Iowa	99	119	99	202	99	119	202
Kentucky	7	144	12	57	7	144	57
Maine	12	79	9	143	8	82	158
Maryland	19	203	23	80	19	203	92
Massachusetts		51	4	117	4	51	117
Michigan	6	54	• 8	53	6	54	48
Minnesota	61	119	60	76	60	120	76
Missouri	18	- 21	48	15	12	12	30
Nebraska	-	-	24	38	-		-
New Hampshire		64	8	184	8	60	184
New Jersey	20	59	20	59	20	59	59
New York	20	73	20	50	20	. 73	50
North Carolin	a 3	36	3	53	3	36	53
North Dakota	-	-	14	Tr' .**	1 <del>-</del> 1	-	-
Ohio	30	43	31	, 89	30	43	88
Ponnsylvania	43	70	38	90 .	36	77	90
Rhode Island	3	90	3	192	3	90	192
South Dakota	-	-	25	. 55 .	-	-	-
Vermont	11	44	-11	19	11	44	19.
Virginia	13	124	13	86	12	133	92
West Virginia		-	. 3	21	-	-	-
Wisconsin	52	48	42	.33	42	54	33
				•			
Total	548		635		517	91	101
TODAT	010	•	000				

\* Trace -- average less than one.

				• • • • •	
	Average	number _		Average	rumber
State	· of bore		State	of bore	
and	1	lants	and	100 p	-
County	1	1948	County		1948
		· · · · · · · · · · · · · · · · · · ·			
Connecticut:			Illinois (cont.),		
Fairfield	17	13	Central		
Hartford	21	52	Peoria	197	346
Litchfield	13	31	Log an	110	49
Middlesex	22	45	McLean	145	273
New Haven	25	23	Macon	35	38
New Lordon	43	19	Woodford	160	249
Tolland	26	35			
Windham	11	27	East		
			Champeign	49	77
Delaware:			Iroquois	- 97	177
Kent	98	82	Kankakee	163	227
New Castle	59	40	Livingston	157	363
Sussex	97	152	Vermilion	89 -	83
Illinois:			West southwest-		
Northwest			Cass	36	22
Bureau	324	294	Christian	50	38
Jo Daviess	464	109	Madi son	21 -	34
Mercer	422	323	Sangamon	119	25
Ogle	236	165			
Whiteside	166	183	East southeast-		
Winnebago	343	80	Clark	36	19
			Jasper	3	8
Northeast			Lawrence	13	10
Boone	195	-4	Moultrie	47	25
De Kalb	130	163			
Du Page	104	156	Southwest		
Lake	58	96	St. Clair	27	53
LaSalle	89	267		,	
Will	123	80	Indiana:		
			Northwest		
West	-		Benton	63	44
Adams	58	42	Jasper	90	183
Brown	36	22	Lake	109	155
Hancock	106	171	La Porte	85	79
Henderson	220	266	Newton	146	180
Knox	249	285	Porter	84	179
McDonough	75	97	Pulaski	140	186
			Starke	97	186
			White	84	247

# • Table 2.--European corn borer abundance in corn, fall of 1948, compared with data for 1947

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	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	e number		Average	
State	of bore		State	of borer	
and	100 pl		. and	100 pla	nts
County	1947	1948	County	1947	1948
Indiana: (Cont.),			Indiana (Cont.):		
North Central			Central(Cont.	) -	
Carroll	31	201	Howard	27	38
Cass	,39	163	Johnson	60	95
Elkhart	189	86	Madison	10	16.
Fulton	97	211	Marion	23	45
Kosciusko	129	34	Rush	23	16
Marshall	143	182	Shelby	80	64
Miami	29	34	Tipton	11	23
St. Joseph	153	208			
Wabash	30	45	East		
			Blackford	43	72
Northeast			Delaware	64	81
Adams	18	68	Fayette	25	85
Allen	23	8	Henry	97	67
De Kalb	78	24	Jay	10	77
Huntington	129	147	Randolph	11	94.
Lagrange	206	140	Union	45	88
Noble	180	28	Wayne	21	119
Steuben	99	20	U U		
Wells	29	6	Southwest		
Whitley	94	52	Gibson	18	5
			Knox	38	45
West			Posey	12	12
Clay	4	12	Sullivan	34	4
Fountain	33	13			-
Montgomery	77	106	Southeast		
Owen	47	3	Dearborn	6	5
Parke	236	39	Franklin	41	74
Putnam	97	34	Jefferson	36	5
Tippecanoe	45	43	Ohio	17	4
Vermillion	216	20	Ripley	5	30
	65	9	Switzerland	19	9 \$
Vigo	63	27	DWI UZEI IAIM	<u>т</u> 2	5
Warren	00	21	Iowa:		
Control			District 1		
Central	07	30	Clay	43	219
Bartholomew	93 101	30 25	Dickinson	14	51
Boone			Emmet	30	185
Clinton	91	24		7	32
Decatur	14	20	Lyon	3	186
Grant	22	24	Osceola O'Emicu	33	138
Hamilton	6	10	O'Brien	64	175
Hancock	65	19	Palo Alto	20	172
Hendricks	69	27	Sioux	20	TIM

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			والمحاصر المتعادين	<u>د</u> ب ا	• •
	Average	number		Average	number
State	of bore		State	of bore	
ard .	. 100 p		and and	- 100 p	
- County	1947	1948	- County	1947	1948
Iowa: (Cont.)			District 7		
District 2			Audubon	32	458
Cerro Gordo	79	389	Guthrie	77	131
Floyd	234	108	Carroll	49	257
Hancock	75	233	Crawford	158	486 -
Kossuth	51	492	Greene	67	223
Mitchell	159	83	Harri son	52	233
Winnebago	<del>2</del> 0	181	Monona	135	334
Worth	185	195	Shelby	47	172
1,01,011	200		01101101		2.0
District 3			District 8		
Allamakee	78	39	Boone	74	381
Chickasaw	239	164	Dallas	35	162
Clayton -	128	113	Jasper	99	529
Fayette	322	94	Marshall	168	586
Howard	82	- 38	Polk	20	168
Winneshiek	171	48	Poweshiek	74	478
			Story	77	238
District 4			Tama	252	302
Buena Vista	51	460		202	
Calhoun	32	381	District 9		
Cherokee	14	200	Benton	344	114
Ida	62	446	Cedar	187	392
Plymouth	26	341	Iowa	197	377 -
Pocahontas	28	242	Johnson	202	260
Sac	57	383	Keokuk	310	151
Woodbury	65	253	Louisa	207	71
woodbury	00		Muscatine	143	239
District 5			Scott	243	49
Butler	316	146	Washington	106	337
Franklin	186	172	Habitt 10,000	100	001
Grundy	224	304	District 10		
Hamilton	54	211	Adair	12	154
Hardin	366	229	Adams	11	99
Humboldt	53	265	Cass	26	167
Webster	36	348	Fremont	7	16
Wright	109	361	Mills	20	64
MITRHID	TO 3		Montgomery	£0 60	117
District 6			Page	5	64
Black Hawk	264	297	Pottawattamie	58	156
Bremer	469	239 -	Taylor	5	78
Buchanan	267	143	14,7101	U	
Clinton	105	76			
Delaware	330	119			
Dubuque	269	51			
Jackson	423	25			
Jones		72			
Linn	450 433	230			

Table 2.--Continued

	1		T		
	-	e number		<u> </u>	number
State	of bore	_	State	of bore	
and		olants	and		lants
County	1947	1948	County	1947	1948
- (7 )					
Iowa: (Cont.)			Maine:	•	
District 11			Androscoggin	103	-
Appanoose	68	68	Cumberland	74	198
Clarke	75	68	Franklin	85	157
Decatur	32	94	Kennebec	68	121
Lucas	34	50	Knox	78	143
Madison	13	36	Lincoln	52	-
Mahaska	190	148	Oxford	116	127
Marion	240	294	Penobscot	-	25
Monroe	49	77	Piscatequis	59	-
Ringgold	17	32	Sagadahoc	70	126
Union	50	30	Somerset	76	-
Warren	108	62	Waldo	70	149
Wayne	10	10	York	94	243
District 12	~ ~		Maryland:		
Davis	73	145	Allegany	-	33
Des Moines	141	191	Anne Arundel	-	38
Henry	65	103	Baltimore	251	50
Jefferson	53	134	Calvert	-	21
Lee	26	120	Caroline	121	47
Van Buren	41	123	Carroll	551	251
Wapello	70	157	Cecil	41	30
			Charles	3	7
Kentucky:			Dorchester	102	59
Bourbon	-	76	Frederick	639	210
Boyle	-	75	Garrett	-	9
Bullitt	30	17	Harford	222	160
Fayette	194	40	Howard	344	139
Hardin	42	75	Kent	95	27
Jefferson	192	162	Montgomery	414	95
Madison	-	52	Prince Georges	14	24
Mende	60	28	Queen Annes	67	56
Nelson	-	4 <u>4</u>	St. Marys	19	38
Trimble	45	14	Somerset	98	54
Warren	-	41	Talbot	74	52
Woodford	442	60	Washington	400	209
			Wicomico	31	109
			Worcester	366	122

					t
		e number		0	number
State		ers per	State	of bore	
and		plant's T	and	100 p	lants
County	1947	1948	County	1947	1948
Massachusetts:	1		East Central Dis	trict	
Bristol	49	232	Anoka	08	20
Franklin	15	11	Chisago	32	10
Norfolk	97	. 137	Hennepin	89	35
Plymouth	42	. 36	Isanti	44	24
			Kanabec	5	0
Michigan: -			Mille Lacs	21	3
Allegan	-	12	Pine	13	9
Lonawee	55	104	Raisey	38	-
Macomb.	144	10	Washington	89	60
Monroe	65	113	<u> </u>		
St. Clair	13	-12	Southwest Distri	.ct	
Sanilac	19	. 5	Cottorwood	63	103
Van Buren	_	150 '	Jackson	83	81
Wayne	27	36	Lincoln	Q	7
1109 - 20	~ ·	00	Lyon	2	24
Minnesota:			Murray	ê	12
West Central Disi	trict		Nobles -	39	20
Big Stone	10	18	Pipestone	1	37
Chippewa	10	35	Redwood.	82	123
Douglas	1	6	Rock	22	85
Grant	0 T	1	10.017	22	00
Lac qui Parle	13	22	South Central Di	strict	
Pope	0	5	Blue Earth	455	175
Stevens	Ő	8	Brown	159	122
Swift	4	-34	Faribault	160	134
Traverse	Ō	32	Freeborn	430	219
Yellow Medicine		31	Le Sueur	72	161
TOTTOM MOUTOLIN		<u> </u>	Martin .	85	143
Central District.			Nicollet	137	210
Benton	8	12	Rice	396	185
Carver	225	140	Steele	618	148
Kandiyohi	16	58	Waseca	437	112
McLeod	65	165	Watonwan	179	190
Meeker	16	03 03	Hat Olivali	210	200
Morrison	10 4	60 4	Southeast Distri	ct	
Renville	4± 86	103	Bakota	267	62
Scott	359	103	Dodge	244	101
Sherburne	53 53	180 2	Fillmore	244 215	44
	55 47	ير 223	Goodhue	429	176
Sibley		220 9		178	24
Stearns	3		Houston.	232	24 71
Todd	6	6	Nower	2 <i>32</i> 477	115
Wright	44	210	Olmsted		
			Wabasha	169	63
			Winona	217	40

	Avorage	number		Average	e number
State	of bore	rs per	· · ·State ·	of bore	ers per
and	100 p	lants	and	100 ]	olants
County	1947	1948	County	1947	1948
Missouri:					
Adair	-	22	St. Francois		0
Andrew	8	20	St. Genevieve	-	11
Atchison	-	23	St. Louis	9	120
Bates	-	1	Saline	-	3
Bollinger	-	0	Scotland	129	-
Buchanan	4:0	-	Stoddard	-	0
Cass	-	8	Sullivan		38
Clark	33	31	Vernon	-	0
Clay	-	7	Warren	-	8
Clinton	-	8	Washington	-	0
Cooper	-	18	Worth	-	О
Crawford	-	0			
Daviess	36	-	Nebraska:		
De Kalb	-	18	Northeast		
Gasconade	-	5	Burt		102
Gentry	23	20	Cedar		68
Grundy	-	28	Dakota		114
Harrison	22	-	Dixon		$l_{x}l_{x}$
Henry	-	0	Thurston		93
Howard	-	17			
Iron	-	0	East		
Jackson	0	-	Butlor		5
Johnson	-	3	Cass		34
Lafayette	-	8	Colfax		16
Lewis	25	37	Dodge		35
Lincoln		3	Douglas		65
Livingston	9	12	Lancaster		30
Madison		0	Platte		22
Marion	13	29	Polk		17
Mercer	-	19	Sarpy		41
Monroe	4	0	Saunders		12
Montgomery	6	48	Seward		22
New Madrid	l	-	Washington		63
Nodaway	8	26			
Perry	2	5	Southeast		
Pettis		1	Gage		8
Phelps	-	0	Johnson		8
Pike	-	4	Nomaha		29
Platte	-	6	Otoe		30
Ralls	8	11	Pawnee		9
Ray	-	19	Richardson		36
St. Charles	-	53	Saline		2
St. Clair	-	0			

	Arono de	e number	1	Arrana a	number
State	of bore		State	- Average	
	1			of bord	-
and		olants	and		lants
County	1947	1948	County	1947	1948
				·· · (0) ·· (0	and the second and
New Hampshire:	1. A.		New York: (Cont.)		÷
Belknap	23	202	Oneida	15	· 32
Carroll	84	348	Onondaga	91	24
Cheshire	65	55	Ontario	10	8
Grafton	99	-	Orange	78	68
Hillsboro	71	212	Orleans	58_	9
Merrimack	28	154	Renssolaer	21	41
Rockingham	58	221	Saratoga	42	67
Stafford	77	240	Schenectady	58	48
Sullivan	73	L'EL	Suffolk	146	69
			Ulster	251	36
New Jersey:			Wayne	12	5
Atlantic	53	68	Č.		
Bergen	115	76	North Carolina:		
Burlington	59	57	Camden	35	38
Camden	83	41	Currituck	57	108
Cape May	47	135	Pasquotank	16	13
Cumberland	30	14	1 and dree e attri		20
Essex-Union	55	28	North Dakota:		
Gloucester	72	91	Barnes	_	0
Hunterdon	17	31	Chas		ŏ
Mercer	36	90	Dickey		0
Middlesex	159	25	Eddy		õ
Monmouth	35	137	Foster		0
Morris	28	41	Grand Forks	-	0
	20 65	151		-	0
Occan			Griggs	-	-
Passaic	147	40	La Moure	-	Trace*
Salen	51	4	Nelson	-	0
Somerset	34	37	Runsom		0
Sussex	24	23	Richland	-	Trace*
Marren	19	29	Sargent	-	0
			Steele		0
New York:			Traill	-	0
Albany	24	121			
Columbia	51	100	Ohio:		
Dutchess	28	30	Northwest		
Erie	86	19	Allen	21	74
Greene	78	59	Definec	36	50
Livingston	37	27	Fulton	66	124
Monroe	57	62	Hancock	97	150
Nassau	247	137	Henry	67	94
Niagara	70	33	Lucas	115	217
N. Contraction			Ottawa	17	77

	Average	e number .		Average	number
State	of bore	ers per	State	of bore	rs per
and	100 1	ola nt s	and	100 p	lants
County	1947	1948	Count y	1947	1948
Ohio: (Cort.)			Pennsylvania: (Cor	nt:)	
Northwest(Con	t.)		Butler	7	-5
Pauldi ng	24	71	Carbon .	7	
Putnam	28	63	Centre	41	49
Van Wert	42	43 -	·· Chester	109	319
Williams	21	45	Clinton	-	108
Wood	54	269	Columbia	10	-
			Crawford	15	15
Northeast			Cumberland	241	122
Wayne	-	114	Dauphin	112	122
·			Delaware	150	139
West Central			Erie	41	21
Auglaize	27	54	Franklin	151	196
Champaign	66	71	Fulton	12	22
Clark	26	188	Huntingdon	13	28
Darke	24	124	Indiana	43	37
Hardin	68	12	Juniata	70	81
Logan	28	32	Lancaster	118	143
Mercer	14	31	Lawrence	22	13
Miami	35	85	Lebanon	208	209
Shelby	15	34	Lehigh	70	56
011020	20	0.2	Luzerne	20	13
Central			Lycoming	34	55
Fayette	22	61	Mercer	20	13
Franklin	40	123	Mifflin	62	226
Madison	26	67	Monroe	11	-
Pickaway	64	34	Montgomery	123	255
i i chavaj	0 2	01	Montour	11	-
Southwest			Northampton	21	34
Butler	53	45	Horthumberland	26	-
Greene	33	84	Perry	104	32
Hamilton	88	49	Philadelphia	123	299
Montgomery	46	177	Schuylkill	59.	
Preble	31	83	Snyder	30	30
FLEDIE	UL.	00	Somerset	3	43
Downgulatonica			Union	76	60
Pennsylvania:	971		Westmoreland	38	.99
Adams	231	71'r		209	73
Allegheny	4.8	43	York	20 9	10
Armstrong	3	4	Dhodo Taland		
Bedford	9	10	Rhode Island:	86	266
Berks	96	103	Newport	3.18	83
Blair	18	26	Providence	67	226
Bucks	176	254	Washington	07	220

South Dakota:Virginia:Beadle13Accomack166Bon Homme34Clarke236Brookings3Culpeper22Brule3Fairfax69Charles Mix19Fauquier231Clay153Frederick90Davison36Gloucester-Deuel2Lcudoun266Douglas4Nansemond2Grant26Norfolk8	per
and County100 plants 1947and County100 plants 1947South Dakota:Virginia:Beadle13Beadle13Bon Homme34Glarke236Brookings3Culpoper22Brule3Fairfax69Charles Mix19Fauquior231Clay153Frederick90Davison36Gloucester-Deuel2Loudoun266Douglas4Mansemond2Grant26Hamlin5Hanson20Prince William80Hutchinson32Kingsbury12Lake66Linc oln365West Virginia:Lyman0MeCook37Nicholas	nts 1948 88 115 61 38 82 86 16 137 22 52 374 17
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	31
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	26
Minnehaha 114	
Noody 58 Wisconsin:	
Sanborn 20 Northwest	
Turner 99 Chippewa 9	-
Union 177	
Yankton 78 North	
Clark 4	6
Vermont: Marathon 11	14
Addison 4 6	
Bennington 54 50 Northeast	
Caledonia 19 15 Marinette 52	32
Chittenden 41 10 Oconto 24	35
Franklin 8 7 Shawano 23	17
Grend Isle 11 32	·
	-
	-
Windsor 86 14 La Crosse 16	-
Monroe 7	-
Pierce 31	-
St. Creix 4 St. Creix 4	

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	Average				e number
State	of bore		State		ers per
and	100 p	And and a supervised statement of the supervised statement	and		plants
County	. 1947	1948	County	1947	1948
Wisconsin: (Cont.	)		Wisconsin: (Cont	5)	
Central			Southeast		
Adams	82	6	Kenosha	37	78
Green Lake	85	39	Milwaukee	30	73
Juneau	3	23	Ozaukee	46	32
Marquette	33	8	Racine	28	40
Portage	14	8	Walworth	42	36
Waupaca	27	26	Washington	73	7
Waushara	33	14	Waukesha	7	54
bool	20	14	•		
East					
Brown	50	24			
Calumet	35	56			
Door	75	33			
Fond du Lac	153	23			
Kewaunee	48	41			
Manitowoc	61	22			
Outagamie	176	21			
Sheboygan	63	33			
Winnebago	185	52			
	:				
Southwest	-				
Crawford	127	47			
Grant	102	45			
Iowa	81 -	11			
Lafayette	75	77			
Richland	26	42			•
Sauk	34	37			
Vernon	33	22			
South					·
Columbia	21	28			
Dane	46	38			
Dodge	94	36			
Green	41	69			
Jefferson	16	29			
Rock	37	36			
	0.				

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\*Less than one.

Formal corn borer surveys were made for the first time in Nebraska, North Dakota, South Dakota, and West Virginia. In North Dakota 14 counties were sampled and borers were found in only 2; the mean population per county was less than one borer per 100 plants in both instances. Three counties surveyed in West Virginia averaged only 21 borers per 100 plants, and 24 counties in Nebraska averaged 38. In the latter State the mean population for Burt and Dakota Counties was 102 and 114 borers per 100 plants. The average of the mean populations for counties surveyed in South Dakota was 55 borers per 100 plants. Clay, Lincoln, Mirnehaha, and Union Counties of southeastern South Dakota had mean populations of 153, 365, 114, and 177 borers.

The 1948 surveys in 13 eastern States indicate that the borer was more abundant there than in 1947. Increases occurred in Maine, New Hampshire, Massachusetts, Connecticut, Rhode Island, Pennsylvania, Delaware, and North Carolina. There was no apparent change in the abundance of the borer in New Jersey.

The average population was lower in Vermont, New York, Maryland, and Virginia in 1948 than in 1947.

The average of the populations in Maine, New Hanpshire, Massachusetts, and Rhode Island exceeded 100 borers per 100 plants. Populations in none of the other eastern States exceeded this figure.

In the north central region there was little change in the abundance of the corn borer in 1948 compared with 1947. The populations remained about the same in Indiana and Illinois. Decreases in Minnesota and Wisconsin were more than offset by increases in population in Iowa, Missouri, and Ohio. The populations in South Dakota and Nebraska, referred to before, indicate the borer may have increased there also in the past year.

The abundance of borers in Ohio in 1948 was slightly more than double that of 1947. There were 9 counties with mean populations greater than 100, and Lucas and Wood Counties in northwestern Ohio exceeded 200 borers per 100 plants.

There was a definite decrease in abundance of the borers in Kentucky.

In Indiana increases in population in the northern and east-central districts offset decreases in other parts of the State so that the average population remained about the same as in 1947. The average populations in districts 1 and 2 in northwestern Indiana were 160 and 129 borers per 100 plants. The State average was 68.

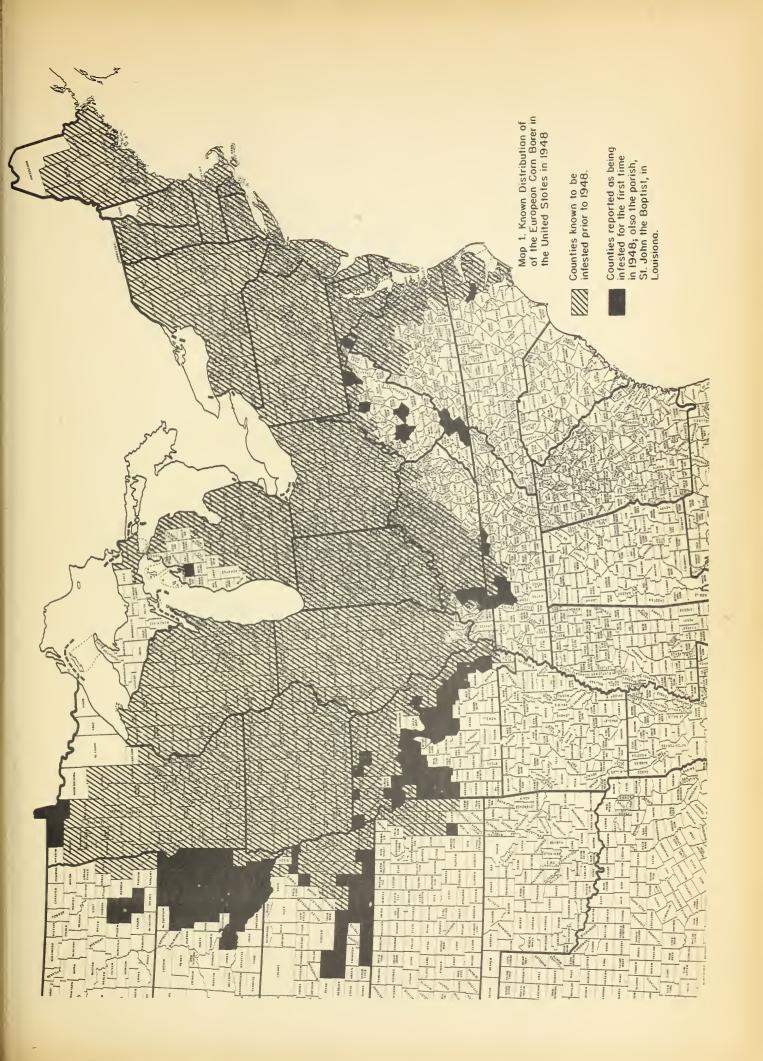
The situation in Illinois was similar to that in Indiana. The 1948 populations averaged about the same as in 1947. An important decrease in the population of borers took place in northwest Illinois where very high populations were observed in 1947. The survey indicated that increases occurred mostly in the west, central, east, northeast, and southwest districts. The mean populations averaged 137 borers per 100 plants. The northwest district, which had the greatest drop in population, remained the most heavily infested part of the State. The greatest increase in population occurred in the central and east districts. About half the county means exceeded 100 borers per 100 plants, including 10 that exceeded 200 and 3 that exceeded 300 borers per 100 plants. In Iowa the corn borer populations increased in all but 2 of the 12 districts. The decreases occurred in districts 3 and 6 in northeast Iowa. The highest populations were observed in districts 4, in northwest Iowa, and 6, in contral Iowa. Both of the latter districts averaged over 300 borers per 100 plents. Only two districts, 3 and 11 in northeast and south central Iowa, had mean populations of less than 100 borers per 100 plants.

The borer was less abundant in 1948 in both Wisconsin and Minnesota than in 1947. In Wisconsin no county mean exceeded 100 borers per 100 plants. The State average in 1948 was 33, or 21 less than in 1947, in 42 comparable counties.

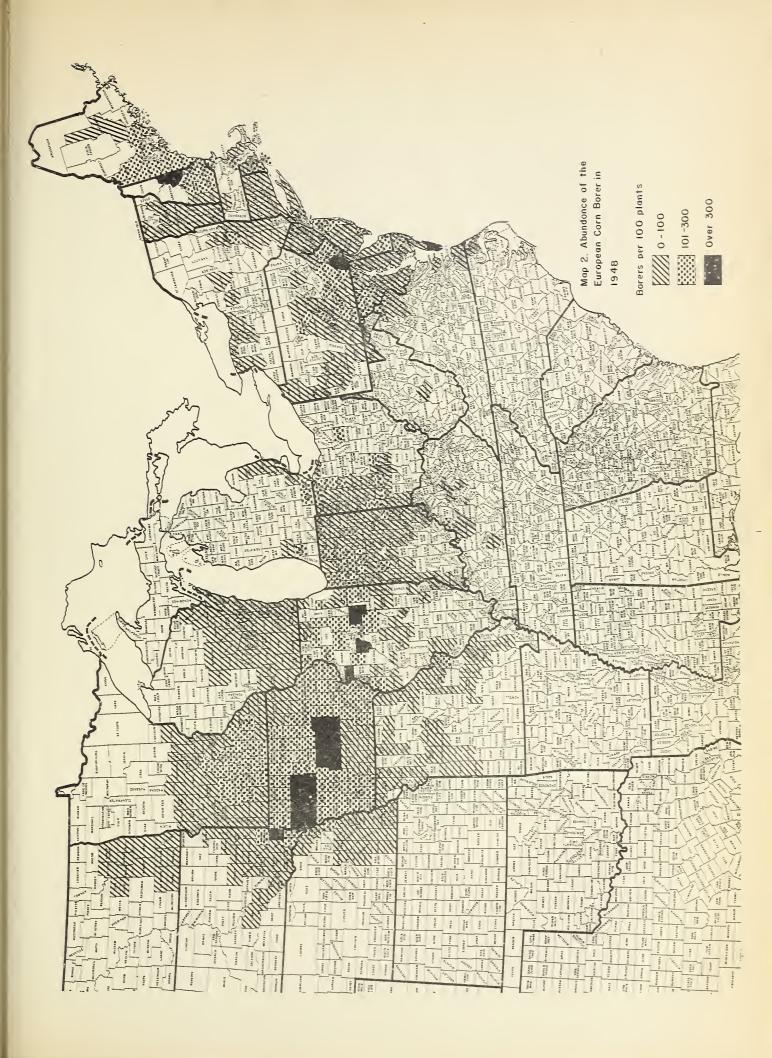
In Minnesota the average number of borers per 100 plants decreased from 120 to 76. However, this decrease occurred mainly in the southeastern counties. Increases were indicated in 3 of 6 districts surveyed. The south-contral district was the most heavily infested in the State in both 1947 and 1948.

Surveys in Missouri in both 1947 and 1948 indicate the borer may be gradually increasing in the northeast counties of the State.

In general the borer was more abundant in the United States in 1948 than in 1947. The abundance of the borer decreased in sections heavily infested in 1947, but the decrease was more than offset by gains in numbers in other parts of the infested area.







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