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✓ Supplement 94

Crop Losses from Plant Diseases in the United States

1935

October 31, 1936

BUREAU OF PLANT INDUSTRY

UNITED STATES DEPARTMENT OF AGRICULTURE

ESTIMATES OF CROP LOSSES FROM DISEASES IN THE UNITED STATES IN 1935

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FOREWORD

It has been several years since the bases of these estimates and the method of the computation have been discussed. It is, therefore, thought advisable to repeat relevant portions of the explanation given in Supplement 83 (1932. Foreword by N. E. Stevens, pp. 1 - 3):

In conformity with previous practice, the estimates are expressed in percentage of loss, or in commercial units - never in dollars, because of complex economic considerations which this would involve.

In general the crop loss estimates as originally furnished by collaborators to the Plant Disease Survey have been computed and issued in tabular form as preliminary estimates. These have been sent back to the collaborators for their revision and suggestions. It is, of course, recognized that most of the figures are estimates in the strict sense of the word, that is, they are usually not the results of counts or calculation but of field observations.

The most serious weakness of these estimates is that many states make no reports. Computations are in all cases based on states reporting, thus where an average is given for "U. S." it should be interpreted as meaning "for the reporting area".

The basis for computation has been the production assumed to have been possible if it were not for disease. The actual production is taken to represent 100% minus the sum of the percentages of loss from all diseases of the crop in question. The possible production is obtained by dividing the actual production by 100% minus the total percentage of loss from all diseases of the crop.

$$\text{Thus: Possible production} = \frac{\text{Actual production}}{100\% - \% \text{ loss from all diseases of crop}}$$

The estimated reduction in yield from a given disease, then, is obtained by multiplying the estimated possible crop production by the estimated percentage loss from the disease.

$$\text{Thus: Estimated crop loss from given disease} = \text{Possible production} \times \% \text{ individual disease loss}$$

The percentage loss for the United States is obtained by dividing the total reduction in yield (sum of the State losses) by the possible production for the country (total actual production plus the total reduction in yield from all diseases of the crop).

The figures for the yield of various crops were taken directly from the statistics of important crops by States given in the publication, "Crops and Markets", issued by the United States Department of Agriculture. These are usually published in the December issue. The method of computation, while somewhat time-consuming, makes possible a percentage loss estimate representing the entire reporting area.

Examples are given below:

EXAMPLES

I. Loss from wheat diseases in Kansas in 1919:

Actual production for State: 151,001,000 bushels.

Total estimated percentage loss from diseases: 15.5.

Possible production: $\frac{151,001,000}{100\% - 15.5\%} = 178,699,000$ bushels.

Reduction in yield from all diseases:

$15.5\% \times 178,699,000 = 27,698,000$ bushels.

Estimated percentage loss from stem rust: 10.

Reduction in yield from stem rust:

$10\% \times 178,699,000 = 17,869,900$ bushels.

II. Percentage loss from stem rust and from all diseases of wheat in the United States in 1919:

Total actual production for country: 940,987,000 bushels.

Sum of calculated State losses from all diseases (total reduction in yield): 192,275,000 bushels.

Possible total production for country:

$940,987,000 + 192,275,000 = 1,133,262,000$ bushels.

Percentage loss from all diseases: $\frac{192,275,000}{1,133,262,000} = 17.$

Sum of calculated State losses from stem rust: 71,417,000 bushels.

Percentage loss from stem rust: $\frac{71,417,000}{1,133,262,000} = 6.3.$

Table 1. Estimated reduction in yield of wheat due to scab (*Gibberella saubinetii*), leaf rust (*Puccinia rubigo-vera tritici*), stem rust (*P. graminis*), bunt (*Tilletia* spp.), loose smut (*Ustilago tritici*), foot rots (various organisms), and other diseases, 1935.

Estimated reduction in yield of wheat due to diseases													
State	Production:	Scab	Leaf Rust	Stem Rust	Bunt	Loose Smut	Foot Rots	All Diseases					
	1,000	% : Bushels	1,000	% : Bushels	1,000	% : Bushels	1,000	% : Bushels					
*Maine	160	-	-	-	-	-	-	-					
Mass.		t	8.	12.	+	-	t	20.					
N. Y.	6,273	-	6.	409	-	136	-	3.					
*N. J.	1,372	-	-	-	-	-	-	545					
Pa.	18,960	t	12.	2,880	+	600	t	21.					
Ohio	42,406	-	15.	670	1.5:	223	0.1:	5.1:					
Ind.	28,618	2.	63	5,172	-	+	-	17.					
Ill.	26,800	0.2:	63	3,932	1.	94	0.5:	14.8:					
Mich.	17,919	t	+	+	0.3:	157	t	4.5:					
Wis.	2,254	2.	56	419	1.5:	188	0.1:	540					
Minn.	19,576	3.	1,739	2,981	57.	596	t	39,948					
Iowa	6,118	1.5:	112	746	6.5:	+	-	18.					
Mo.	24,176	4.	1,131	1,414	4.	424	-	14.5:					
N. D.	53,772	t	+	7,908	57.	1,582	1.	66.					
S. D.	30,822	1.	497	2,486	29.	994	t	38.					
Nebr.	39,472	-	-	15.	6,966	-	-	15.					
Kans.	59,951	0	0	3,939	12.	158	6.	23.9:					
*Del.	1,658	-	-	-	-	-	-	-					
Md.	8,323	3.	289	192	-	144	-	13.5:					
Va.	8,714	1.	100	349	3.	299	1.	100					
w. Va.	2,538	1.	28	14	t	55	-	8.5:					
N. C.	5,198	2.	124	309	-	62	2.	124					
S. C.	930	-	-	445	3.	15	-	34.					
Ga.	805	-	-	205	0.1:	15	-	21.6:					
*Ky.	3,097	-	-	-	-	-	-	-					
Tenn.	3,636	5.	205	205	t?	21	-	11.5:					

Wheat (Continued)

Estimated reduction in yield of wheat due to diseases.													
State	Production:	Scab	Leaf Rust	Stem Rust	Bunt	Loose Smut	Foot Rots	All Diseases					
	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000					
Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels					
*Ala.	66	-	-	-	-	-	-	-					
Ark.	424	-	48	+	-	5	-	53					
*Okl.	33,080	-	-	-	-	-	-	-					
Texas	10,010	+	257	1,185	0.5	59	118	1,835					
Mont.	35,017	0	+	+	3.	1,161	193	3,676					
*Idaho	20,158	-	-	-	-	-	-	-					
Wyo.	2,385	0	+	10.	2.	54	-	325					
Colo.	5,952	0	+	5.	334	1.	67	735					
*N.Mex.	1,036	0	-	-	-	-	-	-					
*Ariz.	836	0	-	-	-	-	-	-					
*Utah	5,512	0	-	-	-	-	-	-					
*Nev.	305	0	-	-	-	-	-	-					
*Wash.	45,577	0	-	-	-	-	-	-					
Oreg.	15,551	0	+	+	2.	328	492	836					
*Calif.	13,552	0	-	-	-	-	-	-					
U. S.	603,199	0.7	5,084	23.	159,841	1.1	7,573	9,513					
			5	34,960	23.	1.1	6,052	32.6					
								226,652					

* Omitted in calculations for U. S. percentage loss.

Table 2. Estimated reduction in yield of barley due to stripe (*Helminthosporium gramineum*), spot blotch (*Pyrenophora teres*), loose smut (*Ustilago spp.*), covered smut (*Ustilago hordei*), scab (*Gibberella saubinetii*), stem rust (*Puccinia graminis*), and other diseases, 1935.

Estimated reduction in yield of barley due to diseases														
Production:		:												
State	1,000 Bushels	Stripe	Spot Blotch	Loose Smut	Covered Smut	Scab	Stem Rust	All Diseases						
:	:	1,000 Bushels:	1,000 Bushels:	1,000 Bushels:	1,000 Bushels:	1,000 Bushels:	1,000 Bushels:	1,000 Bushels:						
:	:	% Bushels:	% Bushels:	% Bushels:	% Bushels:	% Bushels:	% Bushels:	% Bushels:						
*Maine	168	-	-	-	-	-	-	-						
*Vt.	135	-	-	-	-	-	-	-						
Mass.		t	-	t	-	t	5.	5.						
N. Y.	4,158	0.7	33	-	6.5	304	4.	187						
*N. J.	30	-	-	-	t	+	-	-						
Pa.	1,595	0.1	2	1.	18	3.4	62	8.4						
Ohio	450	-	-	-	5	1.	5	2.						
*Ind.	572	-	-	-	-	-	-	-						
Ill.	1,813	0.5	11	0.1	2	3.2	68	0.5						
Mich.	5,326	t	+	t	+	0.2	11	0.2						
Wis.	25,873	1.	283	1.5	424	3.	848	0.5						
Minn.	58,752	1.	778	t	+	1.	778	1.5						
Iowa	15,444	1.	213	0.5	107	0.5	107	0.5						
Mo.	1,254	t	+	t	+	9.	136	5.						
N. D.	45,558	0.2	111	t	+	0.5	277	1.						
S. D.	43,130	2.	1,065	1.	532	4.	2,130	1.						
Nebr.	15,686	-	-	-	-	-	-	-						
Kans.	4,538	-	-	-	-	2.	103	10.						
Md.	759	0.5	4	-	-	1.	8	4.						
Va.	936	1.5	16	1.	10	3.	31	2.						
W. Va.	81	1.	1	-	-	2.	2	3.						
N. C.	254	2.	6	2.	6	1.	3	1.						
S. C.		t	+	-	-	-	-	-						
Ga.		-	-	-	+	1.	+	-						
*Ky.	299	-	-	-	-	-	-	-						
Tenn.	306	1.	4	-	8	7.	29	8.						
Ark.		-	-	-	+	5.	+	-						

State	Production: 1,000 Bushels	Estimated reduction in yield of barley due to diseases													
		Stripe		Spot Blotch		Loose Smut		Covered Smut		Scab		Stem Rust		All Diseases	
		%	: Bushels	%	: Bushels	%	: Bushels	%	: Bushels	%	: Bushels	%	: Bushels	%	: Bushels
*Okla.	1,485	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas.	2,646	0.1:	3	0.1:	3	1.	1.	29	1.	29	5.	146	9.2:	268	
Mont.	3,312	1.	35	0	0	1.	2.	69	0	0	0	0	4.	159	
*Idaho	5,236	-	-	-	-	-	-	-	0	0	-	-	-	-	
Wyo.	1,950	1.	21	-	-	t	3.	64	0	0	5.	107	9.	192	
Colo.	5,436	1.	55	t	+	t	1.	55	0	0	t	+	2.	119	
*N.Mex.	264	-	-	-	-	-	-	-	0	0	-	-	-	-	
*Ariz.	910	-	-	-	-	-	-	-	0	0	-	-	-	-	
*Utah	1,620	-	-	-	-	-	-	-	0	0	-	-	-	-	
*Nev.	216	-	-	-	-	-	-	-	0	0	-	-	-	-	
*Wash.	2,108	-	-	-	-	-	-	-	0	0	-	-	-	-	
Oreg.	3,302	t	+	0.1:	3	-	0.1:	3	0	0	t	+	4.7:	162	
*Calif.	36,642	-	-	-	-	-	-	-	0	0	-	-	-	-	
U. S.	292,249	0.9:	2,641	0.4:	1,105	1.6:	4,641	1.3:	3,887	3.5:	10,421	10.	29,618	18.1:	53,441

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Table 3. Estimated reduction in yield of rye due to smut (*Urocystis occulta*), ergot (*Claviceps purpurea*), leaf rust (*Puccinia rubigo-vera secalis*), stem rust (*P. graminis*), and other diseases, 1935.

Estimated reduction in yield of rye due to diseases											
State:	Production:										
	1,000		Smut		Ergot		Leaf Rust		Stem Rust		All Diseases
	Bushels		1,000		1,000		1,000		1,000		1,000
		%	Bushels	%	Bushels	%	Bushels	%	Bushels	%	Bushels
Mass.:		-	-	2.	+	3.	+	3.	+	8.	+
*N.Y.:	345	-	-	-	-	-	-	-	-	-	-
*N.J.:	315	-	-	-	-	-	-	-	-	-	-
Pa.:	1,665	t	+	t	+	8.	153	t	+	13.	249
Ohio:	1,320	-	-	0.1	1	1.	13	t	+	2.1	27
Ind.:	2,358	-	-	-	-	15.	416	-	-	15.	416
Ill.:	1,274	t	+	t	+	1.	13	t	+	1.5	19
Mich.:	2,940	t	+	0.1	3	t	+	t	+	0.5	15
Wis.:	4,082	t	+	t	+	0.5	21	t	+	0.7	29
Minn.:	9,900	t	+	t	+	0	0	0	0	t	+
Iowa:	2,077	-	-	1.	21	t	+	t	+	1.	21
*Mo.:	600	-	-	-	-	-	-	-	-	-	-
N.D.:	12,754	t	+	0.5	64	t	+	t	+	1.	128
S.D.:	7,050	0	0	t	+	2.	144	t	+	2.	144
*Nebr.:	7,250	-	-	-	-	-	-	-	-	-	-
*Kans.:	682	-	-	-	-	-	-	-	-	-	-
*Del.:	72	-	-	-	-	-	-	-	-	-	-
*Md.:	240	-	-	-	-	-	-	-	-	-	-
Va.:	540	-	-	t	+	2.5	14	t	+	2.5	14
W.Va.:	150	t	+	t	+	0.5	1	-	-	0.5	1
N.C.:	458	-	-	-	-	t	+	-	-	4.	19
*S.C.:	72	-	-	-	-	-	-	-	-	-	-
Ga.:	95	-	-	-	-	0.1	+	-	-	0.1	+
*Ky.:	106	-	-	-	-	-	-	-	-	-	-
Tenn.:	109	t	+	t	+	2.	2	-	-	12.	14
*Okla.:	64	-	-	-	-	-	-	-	-	-	-
Texas:	36	t	+	0	0	1.	+	t	+	2.	+
Mont.:	620	0	0	t	+	0	0	0	0	t	+
*Idaho:	50	-	-	-	-	-	-	-	-	-	-
Wyo.:	144	-	-	-	-	-	-	t	+	t	+
Colo.:	126	0	0	t	+	t	+	0	0	t	+
*Utah:	45	-	-	-	-	-	-	-	-	-	-
*Wash.:	98	-	-	-	-	-	-	-	-	-	-
Oreg.:	299	0	0	t	+	t	+	t	+	0.1	+
U. S.:	57,936	t	+	0.2	89	1.6	777	t	+	2.2	1,096

* Omitted in calculations for U. S. percentage loss.

Table 4. Estimated reduction in yield of oats due to smuts (*Ustilago avenae* and *U. levis*), stem rust (*Puccinia graminis*), crown rust (*P. coronata*), and other diseases, 1935.

Estimated reduction in yield of oats due to diseases										
Production:		Smuts		Stem rust		Crown Rust		All Diseases		
State:	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
	Bushels	%	Bushels	%	Bushels	%	Bushels	%	Bushels	
*Maine	3,996	-	-	-	-	-	-	-	-	-
*N. H.	351	-	-	-	-	-	-	-	-	-
*Vt.	1,876	-	-	-	-	-	-	-	-	-
Mass.	160	10.	18	3.	6	t	+	13.		24
*R. I.	68	-	-	-	-	-	-	-	-	-
*Conn.	330	-	-	-	-	-	-	-	-	-
N. Y.	25,742	9.5	2,827	-	-	4.	1,190	13.5		4,017
*N. J.	1,440	-	-	-	-	-	-	-	-	-
Pa.	26,013	15.	4,788	t	+	0.5	160	18.5		5,906
Ohio	45,684	5.	2,420	t	+	0.5	242	5.6		2,710
Ind.	38,610	1.	489	t	+	20.	9,775	21.		10,264
Ill.	107,716	2.6	3,449	t	+	5.	6,633	18.8		24,939
Mich.	43,818	1.5	671	t	+	t	+	1.7		894
Wis.	85,702	4.	3,896	t	+	8.	7,791	12.		11,687
Minn.	181,189	3.	5,723	1.	1,907	1.	1,907	5.		9,537
Iowa	205,137	1.	2,849	1.	2,849	20.	56,983	28.		79,776
Mo.	30,888	7.	2,637	1.	377	10.	3,767	18.		6,781
N. D.	54,575	1.	620	5.	3,101	5.	3,101	12.		7,442
S. D.	67,260	2.	1,401	t	+	2.	1,401	4.		2,802
*Nebr.	75,980	-	-	-	-	-	-	-		-
Kans.	41,022	4.	1,823	2.	912	4.	1,823	10.		4,558
*Del.	99	-	-	-	-	-	-	-		-
Md.	1,372	6.	89	t	+	2.	30	8.		119
Va.	2,442	3.5	91	1.5	39	1.	26	6.		156
W. Va.	2,044	5.	111	t	+	1.	22	8.		177
N. C.	4,730	1.	51	-	-	3.	153	7.		357
S. C.	9,768	10.	116	1.0	12	5.	58	16.		186
Ga.	7,298	2.	150	-	-	1.	75	3.		225
*Fla.	112	-	-	-	-	-	-	-		-
*Ky.	1,496	-	-	-	-	-	-	-		-
Tenn.	1,147	10.	135	-	-	5.	67	15.		202
*Ala.	1,881	-	-	-	-	-	-	-		-
*Miss.	600	-	-	-	-	-	-	-		-
Ark.	2,244	2.	95	0.8	38	50.	2,377	52.8		2,510
*La.	650	-	-	-	-	-	-	-		-
*Okla.	37,895	-	-	-	-	-	-	-		-
Texas	39,123	5.	2,386	10.	4,771	2.	954	18.		8,588
Mont.	8,272	5.	450	0	0	0	0	8.		720
*Idaho	5,168	-	-	-	-	-	-	-		-
Wyo.	3,562	6.	227	t	+	-	-	6.		227
Colo.	3,406	t	+	t	+	-	-	t		+
*N. Mex.	1,085	-	-	-	-	-	-	-		-
*Ariz.	378	-	-	-	-	-	-	-		-
*Utah	2,072	-	-	-	-	-	-	-		-
*Nev.	76	-	-	-	-	-	-	-		-
*Wash.	9,408	-	-	-	-	-	-	-		-
Oreg.	7,590	0.2	16	t	+	t	+	2.9		227
*Calif.	3,960	-	-	-	-	-	-	-		-
U. S.	1,195,435	3.	37,528	1.1	14,012	8.	98,535	14.9		185,031

* Omitted in calculations for U. S. percentage loss.

Table 5. Estimated reduction in yield of field corn due to smut (*Ustilago zeae*), root rots (various organisms), ear rots and stalk rots (various organisms other than *Diplodia*), ear and stalk rots (*Diplodia zeae*), bacterial wilt (*Aplanobacter stewartii*), and other diseases, 1935.

		Estimated reduction in yield of field corn due to diseases											
Production:		Smut		Root Rots		Ear Rots		Stalk Rots		Diplodia		Bacterial	
State	I,000 Bushels	%	: 1,000 Bushels	%	: 1,000 Bushels	%	: 1,000 Bushels	%	: 1,000 Bushels	%	: 1,000 Bushels	%	: 1,000 Bushels
*Maine	520	-	-	-	-	-	-	-	-	-	-	-	-
*N. H.	697	-	-	-	-	-	-	-	-	-	-	-	-
*Vt.	2,880	-	-	-	-	-	-	-	-	-	-	-	-
Mass.	1,599	4.	77	2.	39	t	+	t	+	1.	19	t	17.
*R. I.	369	-	-	-	-	-	-	-	-	-	-	-	-
*Conn.	2,160	-	-	-	-	-	-	-	-	-	-	-	-
*N. Y.	22,032	-	-	-	-	-	-	-	-	-	-	-	-
*N. J.	8,190	-	-	-	-	-	-	-	-	-	-	-	-
Pa.	58,742	6.	4,461	t	+	10.	7,436	5.	3,718	t	+	t	21.
Ohio	133,980	8.	12,320	1.	1,540	2.	3,030	-	-	2.	3,080	-	13.
Ind.	153,444	1.	1,612	1.	1,612	1.	1,612	-	-	0.8	1,289	t	4.8
Ill.	288,382	2.3	8,417	4.	14,638	4.8	17,566	3.	10,797	1.1	4,025	t	21.2
Mich.	51,660	3.5	1,835	0.3	162	t	+	t	+	0.3	162	t	4.1
Wis.	78,608	1.5	1,317	t	+	4.	3,513	5.	4,392	t	+	t	10.5
Minn.	148,731	4.	6,363	2.	3,181	0.5	795	-	-	-	-	-	6.5
Iowa	352,425	2.	7,832	-	-	4.	15,663	-	-	4.	15,663	-	10.
Mo.	73,701	0.5	374	-	-	1.	748	t	+	t	+	-	1.5
N. D.	21,690	2.5	571	1.	228	0.5	114	1.	228	-	-	-	5.
S. D.	52,248	5.	2,779	-	-	1.	556	-	-	-	-	-	6.
*Nebr.	105,570	-	-	-	-	-	-	-	-	-	-	-	-
Kans.	34,560	1.	368	-	-	1.	368	2.	735	-	-	t	4.
*Del.	4,464	-	-	-	-	-	-	-	-	-	-	-	-
Md.	18,935	0.5	104	5.	1,040	3.	624	-	-	0.5	104	t	9.
Va.	39,884	1.5	654	2.5	1,090	1.5	654	1.	436	-	-	2.	8.5
W. Va.	13,216	4.	622	3.	466	5.	777	1.	155	0.5	78	t	15.

Field Corn (Continued)

Estimated reduction in yield of field corn due to diseases													
State	Production: l,000 Bushels	Saut	Root Rots %	Ear Rots (except Diplodia)	Stalk Rots (except Diplodia)	Diplodia %	Bushels	Diplodia %	Bushels	Bacterial wilt	Diplodia %	Bushels	All Diseases
:	:	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
:	:	%	%	%	%	%	%	%	%	%	%	%	%
N. C.	49,780	5.	2,928	1.	586	2.	1,171	2.	1,171	+	+	-	15.
S. C.	25,592	0.5	148	10.	2,959	3.	888	-	-	+	+	-	13.5
Ga.	44,495	4.	1,854	-	-	-	-	-	-	-	-	-	4.
*Fla.	6,374	-	-	-	-	-	-	-	-	-	-	-	-
*Ky.	59,018	-	-	-	-	-	-	-	-	-	-	-	-
Tenn.	51,760	2.	1,176	5.	2,941	3.	1,765	-	-	2.	1,176	-	12.
*Ala.	44,761	-	-	-	-	-	-	-	-	-	-	-	-
*Miss.	36,356	-	-	-	-	-	-	-	-	-	-	-	-
Ark.	26,000	1.	263	-	-	-	-	-	-	-	-	-	1.
*La.	23,922	-	-	-	-	-	-	-	-	-	-	-	-
*Okla.	31,158	-	-	-	-	-	-	-	-	-	-	-	-
Texas	105,358	1.	1,158	2.	2,316	+	+	1.	1,158	1.	1,158	2.	9.
*Mont.	1,300	-	-	-	-	-	-	-	-	-	-	-	-
*Idaho	1,558	-	-	-	-	-	-	-	-	-	-	-	-
*Wyo.	2,519	+	+	-	-	-	-	-	-	-	-	-	+
Colo.	12,464	1.	126	0.	0	0	0	0	0	0	0	0	1.
*N. Mex.	3,848	-	-	-	-	-	-	-	-	-	-	-	-
*Ariz.	720	-	-	-	-	-	-	-	-	-	-	-	-
*Utah	506	-	-	-	-	-	-	-	-	-	-	-	-
*Nev.	48	-	-	-	-	-	-	-	-	-	-	-	-
*Wash.	1,200	-	-	-	-	-	-	-	-	-	-	-	-
Oreg.	1,888	0.1	2	+	+	0	0	0	0	0	0	0	0.1
*Calif.	3,040	-	-	-	-	-	-	-	-	-	-	-	-
U. S.	2,202,852	2.8	57,411	1.6	32,798	2.8	57,330	1.1	22,972	1.3	26,754	0.2	11.2
													229,693

* Omitted in calculations for U. S. percentage loss.

Table 6. Sweet corn for manufacture; estimated reduction in yield of sweet corn due to smut (Ustilago zeae), bacterial wilt (Aplanobacter stewartii), stalk and ear rots (Diplodia zeae), and other diseases, 1935.

State	Estimated reduction in yield due to diseases									
	Production:	Smut		Bacterial Wilt		Diplodia		All Diseases		
	Short	Short		Short		Short		Short		
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	
*Maine	50,000	-	-	-	-	-	-	-	-	-
*N. H.	2,700	-	-	-	-	-	-	-	-	-
*Vt.	3,100	-	-	-	-	-	-	-	-	-
Mass.		8.	+	t	+	2.	+	22.	+	
Conn.		-	-	t	+	-	-	t	+	
N. Y.	50,400	5.	2,653	-	-	-	-	5.	2,653	
Pa.	10,200	7.	992	15.	2,125	5.	708	28.	3,967	
*Ohio	55,400	-	-	-	-	-	-	-	-	-
Ind.	84,500	5.	5,030	5.	5,030	6.	6,036	16.	16,096	
*Ill.	198,000	-	-	-	-	-	-	-	-	-
Mich.	7,200	5.	380	t	+	t	+	5.2	395	
Wis.	38,000	7.	3,075	t	+	6.5	2,855	13.5	5,930	
Minn.	151,800	4.	6,494	-	-	0.5	812	6.5	10,553	
Iowa	105,600	5.	5,677	-	-	2.	2,271	7.	7,948	
S. D.		6.	+	-	-	-	-	6.	+	
*Nebr.	4,500	-	-	-	-	-	-	-	-	-
*Del.	7,300	-	-	-	-	-	-	-	-	-
Md.	60,500	1.	676	1.5	1,014	-	-	10.5	7,098	
Va.		1.	+	2.5	+	0.5	+	4.	+	
W. Va.		3.	+	5.	+	1.	+	12.	+	
Tenn.	7,100	2.	145	-	-	-	-	2.	145	
Oreg.		0	0	0	0	0	0	0.1	+	
**Other States	18,300	-	-	-	-	-	-	-	-	-
U. S.	854,600	4.4	25,122	1.4	8,169	2.2	12,682	9.6	54,785	

* Omitted in calculations for U. S. percentage loss.

** Includes Colorado, Idaho, Kansas, Kentucky, Missouri, Montana, Oklahoma, Oregon, South Dakota, Virginia, Washington and Wyoming.

Table 7. Estimated reduction in yield of sweet potato due to stem rot (*Fusarium* spp.), black rot (*Ceratostomella fimbriata*), and other diseases, and estimated loss from storage rots (various organisms), 1935.

State	Production: 1,000 Bushels	Estimated reduction in yield due to diseases							
		Stem Rot		Black Rot		All Diseases		Storage Rots	
		: 1,000 :		: 1,000 :		: 1,000 :		: 1,000 :	
		: % :Bushels:		: % :Bushels:		: % :Bushels:		: % :Bushels:	
Conn.		-	-	-	-	1.	+	-	-
*N. J.	2,100	-	-	-	-	-	-	-	-
Pa.		t	+	t	+	1.	+	2.	+
Ind.	392	3.	12	1.	4	4.	16	-	-
*Ill.	600	-	-	-	-	-	-	-	-
Iowa	285	4.	13	5.	16	9.	29	15.	50
*Mo.	900	-	-	-	-	-	-	-	-
Kans.	350	5.	19	t	+	6.	23	4.	15
*Del.	840	-	-	-	-	-	-	-	-
Md.	840	2.	18	2.5	23	8.	73	7.	63
Va.	4,060	7.	306	t	+	7.	306	15.	716
N. C.	8,000	8.	719	1.	90	11.	989	20.	2,000
S. C.	5,192	t	+	5.	288	10.	576	15.	916
*Ga.	3,010	-	-	-	-	-	-	-	-
*Fla.	1,870	-	-	-	-	-	-	-	-
*Ky.	1,760	-	-	-	-	-	-	-	-
Tenn.	4,720	4.	207	5.	259	9.	466	10.	524
*Ala.	6,900	-	-	-	-	-	-	-	-
*Miss.	5,333	-	-	-	-	-	-	-	-
Ark.	1,820	2.	38	2.	38	4.	76	10.	202
*La.	6,512	-	-	-	-	-	-	-	-
*Okla.	1,030	-	-	-	-	-	-	-	-
Texas	6,390	0.1	8	10.	800	20.1	1,608	15.	1,128
*Calif.	1,344	-	-	-	-	-	-	-	-
U. S.	69,853	2.7	1,340	3.1	1,518	8.5	4,162	11.1	5,614

* Omitted in calculations for U. S. percentage loss.

Table 8. Estimated reduction in yield of potato due to mosaic (virus), leaf roll (virus), late blight (*Phytophthora infestans*), *Rhizoctonia* (*Corticium vagum*).

		Estimated reduction in yield due to diseases							
State	Production:	Mosaic		Leaf Roll		Late Blight		Rhizoctonia	
	1,000 Bushels	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	%	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels
Maine	38,640	5.	2,760	3.	1,656	8.	4,416	8.	4,416
*N. H.	1,200	-	-	-	-	-	-	-	-
Vt.	1,340	3.	69	3.	69	6.	138	5.	115
Mass.	1,760	3.	72	3.	72	3.	72	8.	193
*R. I.	735	-	-	-	-	-	-	-	-
Conn.	1,980	1.	21	-	-	0.5	10	0.5	10
N. Y.	21,450	-	-	3.	870	5.	1,449	5.	1,449
*N. J.	9,750	-	-	-	-	-	-	-	-
Pa.	22,572	3.	989	8.	2,636	8.	2,636	3.	989
Ohio	12,826	0.5	80	5.	802	t	+	3.	481
*Ind.	5,280	-	-	-	-	-	-	-	-
*Ill	4,050	-	-	-	-	-	-	-	-
Mich.	24,985	0.2	56	1.	279	t	+	1.	279
Wis.	20,746	t	+	0	0	0	0	t	+
Minn.	28,390	5.	1,918	-	-	0	0	4.	1,535
Iowa	6,300	12.	1,096	5.	457	0	0	3.	274
*Mo.	4,212	-	-	-	-	-	-	-	-
N. D.	13,500	1.	145	1.	145	-	-	1.5	217
S. D.	3,400	1.	41	0.2	8	0	0	5.	204
*Nebr.	8,694	-	-	-	-	-	-	-	-
Kans.	2,625	t	+	-	-	t	+	10.	328
*Del.	500	-	-	-	-	-	-	-	-
Md.	3,135	2.	80	2.5	100	5.	201	3.	121
Va.	11,352	2.	307	2.	307	0	0	1.	153
W. Va.	2,924	3.	135	10.	450	3.	135	5.	225
N. C.	9,130	1.	111	4.	445	1.	111	2.	223
S. C.	1,926	t	+	-	-	-	-	3.	61
Ga.	1,365	3.	52	0.1	2	0.1	2	1.	17
Fla.	2,288	1.	27	-	-	t	+	4.	106
*Ky.	5,762	-	-	-	-	-	-	-	-
Tenn.	4,446	2.	102	t	+	-	-	1.	51
*Ala.	3,230	-	-	-	-	-	-	-	-
*Miss.	1,136	-	-	-	-	-	-	-	-
*Ark.	3,476	-	-	-	-	-	-	-	-
*La.	2,856	-	-	-	-	-	-	-	-
*Okla.	2,840	-	-	-	-	-	-	-	-
Texas	3,240	2.	76	0.1	4	t	+	2.	76
Mont.	1,955	5.	114	t	+	0	0	3.	68
*Idaho	17,800	-	-	-	-	-	-	-	-
Wyo.	2,430	5.	150	-	-	-	-	3.	90
Colo.	15,120	t	+	t	+	0	0	1.	156
*N. Mex.	490	-	-	-	-	-	-	-	-
*Ariz.	150	-	-	-	-	-	-	-	-
*Utah	2,040	-	-	-	-	-	-	-	-
*Nev.	450	-	-	-	-	-	-	-	-
*Wash.	6,270	-	-	-	-	-	-	-	-
Oreg.	4,810	10.	697	4.	279	-	-	5.	349
*Calif.	10,350	-	-	-	-	-	-	-	-
U. S.	356,406	2.6	9,098	2.5	8,581	2.6	9,170	3.5	12,186

Potato - (Continued). Blackleg, (*Bacillus phytophthorus*), Fusarium wilt (*Fusarium* spp.), tipburn and hopperburn (non-parasitic and leaf hopper), early blight (*Alternaria solani*), scab (*Actinomyces scabies*), and other diseases, 1935.

Estimated reduction in yield due to diseases

State:	Blackleg	Fusarium Wilt	Tipburn and Hopperburn	Early Blight	Scab	All Diseases
	1,000	1,000	1,000	1,000	1,000	1,000
	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels	% Bushels
Maine:	2. : 1,104	0 : 0	- : -	0 : 0	4. : 2,208	30. : 16,560
N.H. :	t : +	- : -	- : -	- : -	- : -	- : -
Vt. :	t : +	- : -	3. : 69	- : -	- : -	20. : 460
Mass. :	t : +	t : +	4. : 96	3. : 72	1. : 24	27. : 649
R.I. :	- : -	- : -	- : -	- : -	- : -	- : -
Conn. :	0.5 : 10	- : -	2. : 43	t : +	0.5 : 10	5. : 104
N.Y. :	t : +	- : -	10. : 2,849	t : +	3. : 870	26. : 7,537
N.J. :	- : -	- : -	- : -	- : -	- : -	- : -
Pa. :	t : +	2. : 659	2. : 659	t : +	0.5 : 165	31.5 : 10,381
Ohio :	2. : 321	1. : 160	5. : 802	2. : 321	0.5 : 80	20. : 3,207
Ind. :	- : -	- : -	- : -	- : -	- : -	- : -
Ill. :	- : -	- : -	- : -	- : -	- : -	- : -
Mich. :	1.5 : 418	1. : 279	3.5 : 975	0.3 : 84	1.5 : 418	10.3 : 2,872
Wis. :	0.5 : 124	t : +	5. : 1,242	5. : 1,242	5. : 1,242	16.5 : 4,098
Minn. :	1. : 384	4. : 1,535	5. : 1,918	1. : 384	1. : 384	26. : 9,976
Iowa :	1. : 91	- : -	5. : 457	t : +	5. : 457	31. : 2,832
Mo. :	- : -	- : -	- : -	- : -	- : -	- : -
N.D. :	2. : 289	1. : 145	0.2 : 29	t : +	t : +	6.7 : 970
S.D. :	0.5 : 20	2. : 82	1. : 41	0 : 0	2. : 82	16.7 : 682
Nebr. :	- : -	- : -	- : -	- : -	- : -	- : -
Kans. :	t : +	t : +	- : -	- : -	t : +	20. : 656
Del. :	- : -	- : -	- : -	- : -	- : -	- : -
Md. :	t : +	3. : 121	1. : 40	1. : 40	4. : 161	22. : 884
Va. :	1. : 153	1. : 153	5. : 767	1. : 153	3. : 460	16. : 2,453
W.Va. :	2. : 90	1.5 : 67	7.5 : 337	t : +	t : +	35. : 1,574
N.C. :	2. : 223	1. : 111	2. : 223	2. : 223	- : -	18. : 2,004
S.C. :	- : -	- : -	- : -	t : +	t : +	5. : 102
Ga. :	2. : 35	- : -	5. : 87	10. : 173	- : -	21.2 : 368
Fla. :	0.5 : 13	- : -	- : -	t : +	0.5 : 13	14. : 372
Ky. :	- : -	- : -	- : -	- : -	- : -	- : -
Tenn. :	- : -	- : -	5. : 254	4. : 203	0.5 : 25	12.5 : 635
Ala. :	- : -	- : -	- : -	- : -	- : -	- : -
Miss. :	- : -	- : -	- : -	- : -	- : -	- : -
Ark. :	- : -	- : -	- : -	- : -	- : -	- : -
La. :	- : -	- : -	- : -	- : -	- : -	- : -
Okla. :	- : -	- : -	- : -	- : -	- : -	- : -
Texas :	0.1 : 4	1. : 38	0.5 : 19	1. : 38	5. : 190	14.7 : 559
Mont. :	t : +	2. : 45	t : +	t : +	2. : 45	14. : 317
Idaho :	- : -	- : -	- : -	- : -	- : -	- : -
Wyo. :	2. : 60	5. : 150	- : -	t : +	2. : 60	19. : 570
Colo. :	0 : 0	2. : 312	0 : 0	t : +	t : +	3. : 468
N.M. :	- : -	- : -	- : -	- : -	- : -	- : -
Ariz. :	- : -	- : -	- : -	- : -	- : -	- : -
Utah :	- : -	- : -	- : -	- : -	- : -	- : -
Nev. :	- : -	- : -	- : -	- : -	- : -	- : -
Wash. :	- : -	- : -	- : -	- : -	- : -	- : -
Oreg. :	3. : 209	2. : 139	3. : 209	- : -	4. : 279	31. : 2,161
Calif. :	- : -	- : -	- : -	- : -	- : -	- : -
U. S. :	1. : 3,548	1.1 : 3,996	3.2 : 11,166	0.8 : 2,933	2.1 : 7,173	21. : 73,451

Table 9. Tomatoes for manufacture; estimated reduction in yield due to blight (Septoria lycopersici), Fusarium wilt (Fusarium lycopersici), early blight (Alternaria solani), nailhead spot (Macrosporium tomato), blossom-end rot (non-parasitic), curly-top (virus), and other diseases, 1935.

:Production:		Estimated reduction in yield due to diseases														:All	
State:	Short	Septoria	Fusarium	Bacterial	Early	Nailhead	Blossom-end:	Curly-top	Diseases								
Tons:	Tons	Flight	Wilt	Wilt	Blight	Spot	Rot	Short	Short	Short	Short	Short	Short	Short	Short	Short	Short
		%	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons
Mass.	0.5:	+	+	1.	+	7.	+	2.	+	0	16.5:	+					
Conn.	t	+	-	-	+	1.	+	0.5:	+	0	5.5:	+					
*N.Y.	127,000:	-	-	-	-	-	-	-	-	0	-	-					
*N.J.	155,000:	-	-	-	-	-	-	-	-	0	-	-					
Pa.	54,200:	4.	2,891:	1.	723:	-	2.	1,445:	-	10.	7,227:	0	25.	18,067			
Ohio	81,600:	4.	4,352:	2.	2,176:	0.5:	544:	15.	16,320:	0.5:	544:	1.	1,088:	27,200			
Ind.	350,300:	-	-	1.	371:	-	4.5:	1,668:	-	-	-	0	5.5:	2,039			
Ill.	30,700:	15.	10,709:	5.	3,570:	t	+	-	1.	714:	1.	714:	57.	40,695			
Mich.	17,600:	1.	207:	1.	207:	0	0	-	-	-	t	+	15.	3,106			
Wis.	5.	+	+	t	+	t	+	15.	+	+	t	+	20.	+			
Minn.	t	+	+	0	0	0	+	t	0	4.	+	+	5.	+			
Iowa	11,200:	3.	373:	-	-	-	-	4.	498:	0	124:	0	10.	1,244			
*Mo.	18,000:	-	-	-	-	-	-	-	-	-	-	-	-	-			
N.D.	t	+	+	t	+	t	+	t	+	1.	+	+	2.	+			
Kans.	0	0	0	0	0	-	-	-	-	-	-	-	-	-			
*Del.	49,000:	-	-	-	-	-	-	-	-	-	-	-	-	-			
Md.	225,000:	0.5:	1,669:	0.5:	1,669:	-	8.	26,706:	-	0.2:	668:	0	32.6:	108,823			
Va.	82,500:	3.	5,357:	10.	17,857:	2.	3,571:	10.	17,857:	-	t	+	30.	53,571			
W.Va.	1.5:	+	3.	3.	+	-	+	0.5:	+	2.	+	+	12.	+			
N.C.	2.	+	8.	8.	+	5.	+	-	-	5.	+	+	30.	+			
Ga.	1.	+	5.	1.	+	1.	+	-	-	10.	-	-	17.1:	+			
Fla.	-	-	3.	3.	+	-	-	t	+	-	-	-	5.	+			
*Ky.	14,000:	-	-	-	-	-	-	-	-	-	-	-	-	-			
Tenn.	21,800:	8.	2,725:	10.	3,406:	-	12.	4,088:	1.	341	5.	1,703:	36.	12,263			
*Ark.	21,000:	-	-	-	-	-	-	-	-	-	-	-	-	-			
Texas:	1.	+	3.	3.	+	0.1:	+	0.1:	+	0	4.	+	18.2:	+			

Tomatoes (Continued)

: Produc- :		Estimated reduction in yield due to diseases													
: tion :		Septoria	Fusarium	Bacterial	Early	Nailhead	Blossom-end:	: All							
State:	Short	Blight	Wilt	Wilt	Blight	Spot	Rot	Curly-top	Diseases						
:	Tons°	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons
Mont.	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Idaho:	0	0	t	0	0	0	t	+	2.	:	+	5.	:	+	+
Calo.:	17,000	0	-	0	0	-	-	-	35.	:	+	35.	:	+	+
Utah:	32,800	0	t	0	0	-	t	+	1.	:	+	172	:	172	172
Oreg.:	283,200	0	t	0	0	-	-	-	47.	:	+	33,153	:	37,738	37,738
Calif:	283,200	0	-	0	0	2.	8.	+	40.	:	+	85.	:	+	+
**Other:	:	:	-	0	0	-	-	-	-	:	-	-	:	-	-
States:	81,500	:	:	:	:	:	:	:	:	:	:	:	:	:	:
U. S.:	1,673,400	1.9	28,283	2.	29,279	0.3	4,115	4.5	58,582	0.1	1,599	0.8	11,524	2.2	33,725
															20.2
															304,923

° Short tons, 2,000 lbs.

* Omitted in calculations for U. S. percentage loss.

** Includes Connecticut, Florida, Georgia, Idaho, Kansas, Louisiana, Minnesota, Mississippi, Nebraska, New Mexico, North Carolina, Oklahoma, Oregon, South Carolina, Texas, Washington, West Virginia, and Wisconsin.

Table 10. Tomatoes for market; estimated reduction in yield due to blight (*Septoria lycopersici*), Fusarium wilt (*Fusarium lycopersici*), early blight (*Alternaria solani*), nailhead spot (*Macrosporium tomatum*), blossom-end rot (non-parasitic), curly-top (virus), and other diseases, 1935.

: Product-		Estimated reduction in yield due to diseases											
: tion	: Septoria	: Fusarium	: Bacterial	: Early	: Mailhead	: Blossom-end							: All
State: 1,000	: Blight	: Wilt	: Wilt	: Blight	: Spot	: Rot	: Curly-top	: Diseases					
: Bushels	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: Bushels	: %	: Bushels	: %	: Bushels
: %	: Bushels	: %	: Bushels	: %	: Bushels	: %	: Bushels	: %	: Bushels	: %	: Bushels	: %	: Bushels
Mass.:	: 0.5:	: +:	: 1.:	: +:	: -:	: -:	: -:	: 2.:	: +:	: 0:	: 0:	: 16.5:	: +:
Conn.:	: t:	: -:	: -:	: +:	: -:	: -:	: -:	: 0.5:	: +:	: 0:	: 0:	: 5.5:	: +:
*N.Y.:	: -:	: -:	: -:	: -:	: -:	: -:	: -:	: -:	: -:	: 0:	: 0:	: -:	: -:
*N.J.:	: -:	: -:	: -:	: -:	: -:	: -:	: -:	: -:	: -:	: 0:	: 0:	: -:	: -:
Pa.:	: 7:	: 1.:	: 2:	: -:	: 3:	: -:	: -:	: 10.:	: 17:	: 0:	: 0:	: 25.:	: 43:
Ohio:	: 29:	: 2.:	: 14:	: 0.5:	: 108:	: 0.5:	: -:	: 4:	: 7:	: 0:	: 0:	: 25.:	: 180:
Ind.:	: -:	: 1.:	: 6:	: -:	: 28:	: -:	: -:	: -:	: -:	: 0:	: 0:	: 5.5:	: 34:
Ill.:	: 247:	: 15.:	: 86:	: 5.:	: 29:	: t:	: 1.:	: 6:	: 6:	: 0:	: 0:	: 57.:	: 328:
Mich.:	: 420:	: 1.:	: 5:	: 1.:	: +:	: -:	: -:	: -:	: +:	: 0:	: 0:	: 15.:	: 74:
Wis.:	: 0.5:	: +:	: t:	: +:	: +:	: t:	: +:	: +:	: +:	: 0:	: 0:	: 15.5:	: +:
Minn.:	: t:	: 0:	: 0:	: 0:	: +:	: 0:	: 0:	: 4.:	: +:	: 0:	: 0:	: 5.:	: +:
Iowa:	: 54:	: 3.:	: 2:	: -:	: -:	: 4.:	: 2:	: 1.:	: 1:	: 0:	: 0:	: 10.:	: 6:
*Mo.:	: -:	: -:	: -:	: -:	: -:	: -:	: -:	: -:	: -:	: 0:	: 0:	: -:	: -:
N.D.:	: t:	: t:	: t:	: t:	: +:	: -:	: +:	: 1.:	: +:	: 0:	: 0:	: 2.:	: +:
Kans.:	: 0:	: 0:	: -:	: -:	: -:	: -:	: -:	: -:	: -:	: 0:	: 0:	: 0:	: 0:
*Del.:	: 29:	: -:	: -:	: -:	: -:	: -:	: -:	: -:	: -:	: 0:	: 0:	: -:	: -:
Md.:	: 585:	: 0.5:	: 4:	: -:	: 69:	: -:	: -:	: 0.2:	: 2:	: 0:	: 0:	: 32.6:	: 282:
Va.:	: 450:	: 2.:	: 13:	: 10.:	: 63:	: -:	: -:	: t:	: +:	: 0:	: 0:	: 29.:	: 184:
W.Va.:	: 72:	: 1.5:	: +:	: 3.:	: +:	: 0.5:	: -:	: 2.:	: +:	: 0:	: 0:	: 12.:	: +:
N.C.:	: 272:	: 2.:	: 8.:	: 5.:	: 2:	: -:	: -:	: 5.:	: 5:	: 0:	: 0:	: 30.:	: 30:
S.C.:	: 96:	: t:	: +:	: 18:	: 54:	: -:	: -:	: 5.:	: 18:	: 0:	: 0:	: 25.:	: 90:
Ga.:	: 272:	: 1.:	: 1.:	: 6:	: +:	: -:	: -:	: 10.:	: 12:	: 0:	: 0:	: 17.1:	: 20:
Fla.:	: 2,709:	: -:	: 3.:	: 86:	: -:	: t:	: +:	: -:	: -:	: 0:	: 0:	: 5.:	: 143:
*Ky.:	: 240:	: -:	: -:	: -:	: -:	: -:	: -:	: -:	: -:	: 0:	: 0:	: -:	: -:
Tenn.:	: 886:	: 8.:	: 111:	: 10.:	: 138:	: 1.:	: 14:	: 5.:	: 69:	: 0:	: 0:	: 36.:	: 498:
*Miss.:	: 1,024:	: -:	: -:	: -:	: -:	: -:	: -:	: -:	: -:	: 0:	: 0:	: -:	: -:

Estimated reduction in yield due to diseases.

°Bushels of 53 lbs.

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Table 11. Snap beans for manufacture; estimated reduction in yield due to Anthracnose (Colletotrichum lindemuthianum), bacterial blights (Bacterium spp.), mosaic (virus), root rots (various organisms), rust (Uromyces phaseoli typica), and other diseases, 1935.

:Product-:		Reduction in yield due to diseases									
State:	tion	: Anthrac-	: Bacterial:	:	:	:	:	:	:	: All	
:	Short	: nose	: Blights	: Mosaic	: Root Rots:	: Rust	: Diseases	:	:	:	
:	Tons	:Short:	:Short:	:Short:	:Short:	:Short:	:Short:	:	:	:Short	
:	:	% : Tons:	% : Tons:	% : Tons:	% : Tons:	% : Tons:	% : Tons:	:	:	% : Tons	
*Maine:	2,700	-	-	-	-	-	-	-	-	-	-
Mass.:		t	+	3.	+	3.	+	10.	+	t	+
*N.Y.:	12,600	-	-	-	-	-	-	-	-	t	-
Pe.:	1,300	6.	126	1.	21	0.5	11	6.	126	t	+
Ohio :		0.5	+	2.	+	0.5	+	1.	+	-	+
*Ind. :	3,300	-	-	-	-	-	-	-	-	-	-
Ill. :		1.	+	2.	+	25.	+	-	-	-	+
Mich.:	8,000	t	+	2.5	212	t	+	0.5	43	t	+
Wis.:	10,100	0	0	t	+	5.	532	t	+	0	532
Minn.:		t	+	3.	+	2.	+	t	+	0	6.
N.D. :		t	+	0.5	+	2.	+	t	+	t	2.5
*Del. :	1,400	-	-	-	-	-	-	-	-	-	-
Md. :	13,300	t	+	1.5	209	0.2	28	3.	419	-	4.7
Va. :		t	+	5.	+	4.	+	2.	+	t	36.
W. Va.:		3.	+	3.	+	1.	+	2.	+	0.5	11.
N.C. :		-	-	1.	+	2.	+	7.	+	-	18.
S.C. :	200	0	0	t	+	t	+	5.	11	t	5.
Ga. :		0.1	+	1.	+	-	-	-	1.	+	2.1
Tenn.:	1,700	-	-	1.	18	2.	35	-	-	1.	18
*Miss.:	1,200	-	-	-	-	-	-	-	-	-	-
*Ark. :	1,500	-	-	-	-	-	-	-	-	-	-
*La. :	600	-	-	-	-	-	-	-	-	-	-
Texas:		t	+	5.	+	1.	+	5.	+	t	13.
Mont.:		0	0	2.	+	5.	+	1.	+	t	8.
Wyo. :		0	0	6.5	+	6.	+	5.	+	-	17.5
Colo.:	2,900	0	0	1.5	47	3.	93	2.	62	0	6.5
*Utah :	1,900	0	0	-	-	-	-	-	-	-	-
*Wash.:	2,000	0	0	-	-	-	-	-	-	-	-
Oreg.:	6,200	0	0	-	-	5.	344	-	-	-	10.
*Calif:	2,800	0	0	-	-	-	-	-	-	-	-
*Other:		:	:	:	:	:	:	:	:	:	:
States:	5,500	:	:	:	:	:	:	:	:	:	:
U. S.:	80,200	0.3	126	1.1	507	2.2	1,043	1.4	661	+	18
											6.2
											2,957

* Omitted in calculations for U. S. percentage loss.

** Includes Alabama, Florida, Georgia, Idaho, Illinois, Iowa, Kansas, Kentucky, Minnesota, Missouri, Montana, Nebraska, New Hampshire, New Jersey, North Carolina, Ohio, Oklahoma, Texas, Vermont, Virginia, West Virginia, Wyoming.

Table 12. Snap beans for market; estimated reduction in yield due to Anthracnose (*Colletotrichum lindemuthianum*), bacterial blights (*Bacterium* spp.), mosaic (virus), root rots (various organisms), rust (*Uromyces phaseoli typica*), and other diseases, 1935.

:Produc-: Reduction in yield due to diseases											
: tion :		: Anthrac- :		: Bacterial :		: Mosaic :		: Root Rots :		: Rust :	
State: 1,000 :		nose :		Blights :		1,000 :		1,000 :		1,000 :	
:Bushels:		:1,000:		:1,000:		:1,000:		:1,000:		:1,000:	
:		: % :		: % :		: % :		: % :		: % :	
		:Bushels:		:Bushels:		:Bushels:		:Bushels:		:Bushels:	
Mass.:		t :	+ :	3. :	+ :	3. :	+ :	10. :	+ :	t :	+ :
Conn.:		- :	- :	- :	- :	- :	- :	- :	- :	- :	2. :
*N.Y.:	242	- :	- :	- :	- :	- :	- :	- :	- :	t :	+ :
*N.J.:	1,189	- :	- :	- :	- :	- :	- :	- :	- :	- :	- :
Pa.:	414	6. :	29 :	1. :	5 :	0.5 :	+ :	6. :	29 :	t :	+ :
Ohio:		0.5 :	+ :	2. :	+ :	0.5 :	+ :	1. :	+ :	- :	5. :
Ill.:	32	1. :	1 :	2. :	1 :	25. :	11 :	- :	- :	- :	30. :
Mich.:	68	t :	+ :	2.5 :	2 :	t :	+ :	0.5 :	+ :	t :	+ :
Wis.:		0 :	0 :	t :	+ :	5. :	+ :	t :	+ :	0 :	5. :
Minn.:		t :	+ :	3. :	+ :	2. :	+ :	t :	+ :	0 :	6. :
N.D.:		t :	+ :	0.5 :	+ :	2. :	+ :	t :	+ :	t :	2.5 :
*Del.:	8	- :	- :	- :	- :	- :	- :	- :	- :	- :	- :
Md.:	208	t :	+ :	1.5 :	3 :	0.2 :	+ :	3. :	7 :	- :	4.7 :
Va.:	331	0 :	0 :	5. :	25 :	2. :	10 :	2. :	10 :	t :	+ :
W.Va.:		3. :	+ :	3. :	+ :	1. :	+ :	2. :	+ :	0.5 :	+ :
N.C.:	664	- :	- :	1. :	8 :	2. :	16 :	7. :	55 :	- :	18. :
S.C.:	318	0 :	0 :	t :	+ :	t :	+ :	5. :	17 :	t :	+ :
Ga.:	288	0.1 :	+ :	1. :	3 :	- :	- :	- :	1. :	3 :	2.1 :
*Fla.:	5,069	- :	- :	- :	- :	- :	- :	- :	- :	- :	- :
Tenn.:	81	- :	- :	1. :	1 :	2. :	2 :	- :	- :	1. :	1 :
*Ala.:	64	- :	- :	- :	- :	- :	- :	- :	- :	- :	- :
*Miss.:	299	- :	- :	- :	- :	- :	- :	- :	- :	- :	- :
*Ark.:	78	- :	- :	- :	- :	- :	- :	- :	- :	- :	- :
*La.:	607	- :	- :	- :	- :	- :	- :	- :	- :	- :	- :
Texas:	383	t :	+ :	5. :	22 :	1. :	4 :	5. :	22 :	t :	- :
Mont.:		0 :	0 :	2. :	+ :	5. :	+ :	1. :	+ :	t :	+ :
Wyo.:		0 :	0 :	6.5 :	+ :	6. :	+ :	5. :	+ :	- :	17.5 :
Colo.:	333	0 :	0 :	1.5 :	5 :	3. :	11 :	2. :	7 :	0 :	6.5 :
Oreg.:		0 :	0 :	- :	- :	5. :	+ :	- :	- :	- :	10. :
*Calif.:	1,148	0 :	0 :	- :	- :	- :	- :	- :	- :	- :	- :
U. S.:	11,824	0.8 :	30 :	2.1 :	75 :	1.5 :	54 :	4.1 :	147 :	- :	14.1 :

° Bushels of 30 pounds.

* Omitted in calculations for U. S. percentage loss.

Table 13. Estimated reduction in yield of dry beans due to anthracnose (*Colletotrichum lindemuthianum*), bacterial blights (*Bacterium* spp.), mosaic (virus), root rots (various organisms), rust (*Uromyces phaseoli typica*), and other diseases, 1935.

:Produc-: Reduction in yield of dry beans due to diseases													
: tion :		Anthrac-:		Bacterial:		:		:		:		All	
State:	1,000	nose	:	Blight	:	Mosaic	:	Root Rots:	:	Rust	:	Diseases	:
:	°Bags	:	1,000:	:	1,000:	:	1,000:	:	1,000:	:	1,000:	:	1,000
:	:	% :	Bags:	% :	Bags:	% :	Bags:	% :	Bags:	% :	Bags:	% :	Bags
<hr/>													
*Maine:	67	-	-	-	-	-	-	-	-	-	-	-	-
*Vt.	17	-	-	-	-	-	-	-	-	-	-	-	-
*N.Y.	874	-	-	-	-	-	-	-	-	-	-	-	-
Mich.:	4,306	t	+	2.5:	128:	t	+	0.5:	26:	t	+	5.3:	297
Wis.:	22	0	0	t	+	5:	1:	t	+	0	0	5:	1
Minn.:	25	t	+	3:	1:	2:	1:	t	+	0	0	6:	2
*Nebr.:	104	-	-	-	-	-	-	-	-	-	-	-	-
*Kans.:	21	-	-	-	-	-	-	-	-	-	-	-	-
Mont.:	551	0	0	2:	12:	5:	30:	1:	6:	t	+	8:	48
*Idaho:	1,306	-	-	-	-	-	-	-	-	-	-	-	-
Wyo.:	410	0	0	3:	14:	4:	18:	2.5:	11:	-	-	9.5:	43
Colo.:	1,256	0	0	1.5:	20:	3:	40:	2:	27:	0	0	6.5:	87
*N.M.:	302	0	0	-	-	-	-	-	-	-	-	-	-
*Ariz.:	66	0	0	-	-	-	-	-	-	-	-	-	-
Oreg.:	6	0	0	-	-	5:	+	-	-	-	-	10:	+
*Calif:	3,966	0	0	-	-	-	-	-	-	-	-	-	-
<hr/>													
U. S.:	13,799	-	-	2.3:	175:	1.2:	90:	0.9:	70:	-	-	6.3:	478

° Bags of 100 pounds.

* Omitted in calculations for U. S. percentage loss.

Table 14. Green peas for manufacture; estimated reduction in yield due to bacterial blight (*Bacterium pisi*), Fusarium wilt (*Fusarium orthoceras pisi*), Ascochyta blight (*Mycosphaerella pinodes* and *Ascochyta* spp.), root rots (various organisms), and other diseases, 1935.

State	Production Short Tons	Estimated reduction in yield due to diseases									
		Bacterial	Fusarium	Ascochyta							
		Blight	Wilt	Blight	Root Rots	All Diseases					
		%	Short Tons	%	Short Tons	%	Short Tons	%	Short Tons	%	Short Tons
*Maine	2,750	-	-	-	-	-	-	-	-	-	-
*N.Y.	23,600	-	-	-	-	-	-	-	-	-	-
Pa.	4,340	-	-	1.	55	t	+	20.	1,099	21.	1,154
Ohio	4,250	0.5:	24	1.	47	1.	47	5.	236	10.	472
*Ind.	3,580	-	-	-	-	-	-	-	-	-	-
Ill.	10,350	1.	111	1.	111	-	-	5.	556	7.	778
Mich.	8,840	t	+	0	0.	t	+	5.	466	5.1:	475
Wis.	75,640	t	+	0.5:	398	0	0	3.	2,309	5.	3,981
*Minn.	26,540	-	-	-	-	-	-	-	-	-	-
*Del.	4,420	-	-	-	-	-	-	-	-	-	-
Md.	21,740	0.2:	49	t	+	0.5:	122	10.	2,435	10.7:	2,606
Va.	7,540	t	+	2.	154	-	-	-	-	2.	154
Tenn.	-	-	-	-	-	2.	+	-	-	2.	+
Mont.	2,950	1.	33	t	+	t	+	10.	331	11.	364
*Wyo.	-	t	+	t	+	-	-	-	-	t	+
Colo.	3,630	1.	42	2.	84	t	+	10.	422	14.	590
*Utah	21,810	-	-	-	-	-	-	-	-	-	-
*Wash.	15,000	-	-	-	-	-	-	-	-	-	-
Oreg.	7,000	-	-	2.	250	2.	250	40.	5,000	44.	5,500
**Other States	16,010	-	-	-	-	-	-	-	-	-	-
U. S.	265,090	0.1:	259	0.6:	1,099	0.2:	419	7.	12,934	8.5:	16,074

* Omitted in calculations for U. S. percentage loss.

** Includes California, Idaho, Iowa, Kansas, Nebraska, New Jersey, Oklahoma, Tennessee, and Wyoming.

Table 15. Green peas for market; estimated reduction in yield due to bacterial blight (Bacterium pisi), Fusarium wilt (Fusarium orthoceras pisi), Ascochyta blight (Mycosphaerella pinodes and Ascochyta spp.), root rots (various organisms), and other diseases, 1935

: Produc-		: Estimated reduction in yield due to diseases									
: tion		: Bacterial		: Fusarium		: Ascochyta		: Root Rots		: All Diseases	
State	1,000	Blight	Wilt	Blight	Root Rots	All Diseases	1,000	Wilt	Blight	Root Rots	All Diseases
: °Bushels	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000	: 1,000
:	%	:Bushels	%	:Bushels	%	:Bushels	%	:Bushels	%	:Bushels	%
Mass.		2.	+	2.	+	1.	+	25.	+	50.	+
*N. Y.	554	-	-	-	-	-	-	-	-	-	-
*N. J.	408	-	-	-	-	-	-	-	-	-	-
Pa.		-	-	1.	+	t	+	20.	+	21.	+
Ohio		0.5	+	1.	+	1.	+	5.	+	10.	+
Ill.		1.	+	1.	+	-	-	5.	+	7.	+
Mich.		t	+	0	0	t	+	5.	+	5.1	+
Wis.		t	+	0.5	+	0	0	3.	+	4.	+
N. D.		-	-	t	+	-	-	t	+	t	+
Md.	15	0.2	+	t	+	0.5	+	3.	+	3.7	+
Va.	144	t	+	2.	3	-	-	-	-	2.	3
N. C.	228	1.	3	2.	6	1.	3	3.	10	9.	28
S. C.	160	-	-	0	0	5.	9	10.	19	15.	28
Ga.		2.	+	-	-	10.	+	-	-	12.	+
*Fla.	400	-	-	-	-	-	-	-	-	-	-
Tenn.		-	-	-	-	2.	+	-	-	2.	+
*Ala.	11	-	-	-	-	-	-	-	-	-	-
*Miss.	104	-	-	-	-	-	-	-	-	-	-
*La.	58	-	-	-	-	-	-	-	-	-	-
Texas	25	t	+	0.1	+	0	0	2.	1	3.1	1
Mont.		1.	+	t	+	t	+	10.	+	11.	+
*Idaho	238	-	-	-	-	-	-	-	-	-	-
Wyo.		t	+	t	+	-	-	-	-	t	+
Colo.	837	1.	10	2.	19	t	+	10.	97	14.	136
*Ariz.	22	-	-	-	-	-	-	-	-	-	-
*Wash.	578	-	-	-	-	-	-	-	-	-	-
Oreg.	83	-	-	2.	3	2.	3	40.	59	44.	65
*Calif.	4,506	-	-	-	-	-	-	-	-	-	-
U. S.	8,371	0.2	13	0.5	31	0.2	15	3.	186	4.1	261

° Bushels of 30 pounds.

* Omitted in calculations for U. S. percentage loss.

Table 16. Estimated reduction in yield of cotton due to Anthracnose (*Glomerella gossypii*), angular leaf spot (*Dactyrium malvacearum*), wilt (*Fusarium vasinfectum*), root knot (*Heterodera marioni*), root rot (*Phymatotrichum omnivorum*), malnutrition (non-parasitic), and other diseases, 1935.

: Produc-		Estimated reduction in yield due to diseases																							
: tion	:	Anthrac-		:	:	Wilt		:	:	Root Knot		:	:	Root Rot		:	:	Malnutri-		:	:	Diseases		:	:
State:	1,000	:	:	:	:	Leaf Spot		:	:	Spot		:	:	Wilt		:	:	Root Knot		:	:	Root Rot		:	:
:	Bales	:	:	:	:	:1,000:	%	:	:	:1,000:	%	:	:	:1,000:	%	:	:	:1,000:	%	:	:	:1,000:	%	:	:
:	:	:Bales:	%	:	:	:Bales:	%	:	:	:Bales:	%	:	:	:Bales:	%	:	:	:Bales:	%	:	:	:Bales:	%	:	:
*Mo.	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Va.	30	3.	1	4.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.C.	585	t	+	2.	15	7.	51	1.	1.	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S.C.	745	10.	80	3.	24	2.	16	2.	2.	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ca.	1,060	-	-	-	-	5.	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Fla.	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tenn.	320	t	+	1.	4	1.2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Ala.	1,060	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Miss.	1,260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ark.	890	t	+	1.	10	5.	49	1.	1.	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
La.	555	1.5	10	2.	14	3.5	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Okla.	535	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas	3,050	t	+	3.	121	5.	201	1.	1.	40	12.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*N.M.	78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Ariz.	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Calif.	205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
All	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Others:	7	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
U. S.:	10,734	1.	91	2.1	129	4.3	101	0.8	13	5.	432	1.9	173	17.3	1.1	624	:	:	:	:	:	:	:	:	:

* Omitted in calculations for U. S. percentage loss.

Table 17. Estimated reduction in yield of sugar beet due to nematode (*Heterodera schachtii*), curly top (virus), leaf spot (*Cercospora beticola*), Phoma rot (*Phoma betae*), and other diseases, 1935.

:Production:		Estimated reduction in yield due to disease											
State	1,000	Sugar Beet											
	Short	Nematode	Curly-top	Leaf Spot	Phoma Rot	All Diseases							
	Tons	1,000	1,000	1,000	1,000	1,000							
	%	Short	%	Short	%	Short	%	Short	%	Short	%	Short	
		Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	
Ohio	333	0	0	0	0	25.	128	5.	26	35.	180		
Ind.		0	0	0	0	25.	+	-	-	25.	+		
Mich.	777	0	0	0	0	25.	273	2.	22	29.	317		
Wis.		0	0	0	0	20.	+	-	-	22.	+		
Minn.		0	0	0	0	2.	+	5.	+	12.	+		
Iowa		0	0	0	0	27.	+	-	-	39.5	+		
N. D.		0	0	0	0	t	+	-	-	-	-		
S. D.		0	0	0	0	t	+	0	0	-	-		
Nebr.	606	2.	14	-	-	10.	73	-	-	17.	124		
Mont.	532	0	0	10.	61	t	+	-	-	12.	73		
Idaho	527	2.	12	15.	95	-	-	-	-	17.	107		
Wyo.	622	-	-	-	-	t	+	t	+	2.	13		
Colo.	1,823	t	+	1.5	29	5.	100	t	+	8.5	169		
Utah	540	2.	13	5.	31	-	-	5.	31	14.	88		
Wash.		-	-	-	-	-	-	-	-	10.	+		
Calif.	1,453	2.	33	3.	50	-	-	-	-	13.	217		
*Other States:	771												
U. S.:	7,984	0.9:	72	3.1:	266	6.8:	574	0.9:	79	15.2:	1,288		

* Includes Indiana, Illinois, Wisconsin, Minnesota, Iowa, North Dakota, South Dakota, Kansas, Wyoming, New Mexico, and Washington.

Table 18. Estimated reduction in yield of pear due to blight (Bacillus amylovorus), scab (Venturia pyrina), leaf blight (Fabraea maculata), and other diseases, 1935.

State	Estimated reduction in yield due to diseases									
	Production:	Blight		Scab		Leaf Blight		All Diseases		
	1,000 Bushels	1,000	% Bushels	1,000	% Bushels	1,000	% Bushels	1,000	% Bushels	
*Maine	6	-	-	-	-	-	-	-	-	-
*N. H.	8	-	-	-	-	-	-	-	-	-
*Vt.	5	-	-	-	-	-	-	-	-	-
Mass.	45	4.	2	t	+	-	-	4.	2	
*R. I.	5	-	-	-	-	-	-	-	-	-
Conn.	15	-	-	-	-	-	-	2.	+	
*N. Y.	663	-	-	-	-	-	-	-	-	-
*N. J.	79	-	-	-	-	-	-	-	-	-
Pa.	370	8.	34	1.	4	4.	17	14.	59	
Ohio	400	1.5	6	2.	9	2.	9	5.5	24	
Ind.	170	5.	9	-	-	3.	6	8.	15	
Ill.	659	2.	15	t	+	5.	37	12.	89	
Mich.	633	t	+	5.	33	t	+	5.	33	
Wis.		2.	+	5.	+	0	0	7.	+	
Iowa	102	2.	2	-	-	-	-	2.	2	
Mo.	470	-	-	-	-	2.	10	2.	10	
*Nebr.	44	-	-	-	-	-	-	-	-	-
*Kans.	217	-	-	-	-	-	-	-	-	-
*Del.	27	-	-	-	-	-	-	-	-	-
Md.	106	7.	8	3.	4	2.	2	12.	14	
Va.	325	3.	10	0.5	2	t	+	4.	14	
W. Va.	64	t	+	5.	3	t	+	6.	4	
N. C.	222	7.	17	-	-	t	+	10.	24	
*S. C.	71	-	-	-	-	-	-	-	-	-
*Ga.	97	-	-	-	-	-	-	-	-	-
*Fla.	35	-	-	-	-	-	-	-	-	-
*Ky.	126	-	-	-	-	-	-	-	-	-
Tenn.	113	10.	1,017	-	-	-	-	90.	1,017	
Ala.	145	30.	62	-	-	-	-	30.	62	
Miss.	121	30.	52	-	-	-	-	30.	52	
*Ark.	154	-	-	-	-	-	-	-	-	-
*La.	50	-	-	-	-	-	-	-	-	-
*Okla.	245	-	-	-	-	-	-	-	-	-
Texas	469	5.	31	0	0	0	0	15.	94	
*Idaho	57	-	-	-	-	-	-	-	-	-
Colo.	351	t	+	0	0	0	0	t	+	
*N. M.	38	-	-	-	-	-	-	-	-	-
*Ariz.	12	-	-	-	-	-	-	-	-	-
*Utah	49	-	-	-	-	-	-	-	-	-
*Nev.	8	-	-	-	-	-	-	-	-	-
*Wash.	4,455	-	-	-	-	-	-	-	-	-
Oreg.	3,000	1.	33	6.	195	-	-	8.	261	
*Calif.	7,024	-	-	-	-	-	-	-	-	-
U. S.	21,255	13.6	1,298	2.6	250	0.8	81	18.5	1,776	

*Omitted in calculations for U. S. percentage loss.

Apple (Continued)

: Estimated reduction in yield of apples due to diseases.													
: Production:													
State	1,000	Bitter Rot	Black Rot	Blotch	Cedar Rust	Blight	Scab	All Diseases					
: Bushels	: 1,000	: Bushels	: 1,000	: Bushels	: 1,000	: Bushels	: 1,000	: Bushels	: 1,000	: Bushels	: 1,000	: Bushels	: 1,000
:	%	%	%	%	%	%	%	%	%	%	%	%	%
Ky.	1,496	-	17	-	-	-	-	10.	168	11.	185		
Tenn.	1,064	9.	15	2.	30	3.	22	12.	45	28.5	425		
Fla.	525	2.	-	-	-	3.	-	10.	19	15.	93		
*Miss.	145	-	-	-	-	-	-	-	-	-	-		
Ark.	1,645	-	+	1.	22	-	+	25.	-	556	26.	578	
*La.	13	-	-	-	-	-	-	-	-	-	-	-	
*Okla.	382	-	-	-	-	-	-	-	-	-	-	-	
Texas	177	3.	7	5.	12	10.	+	0	25	28.	69		
Mont.	465	0	0	0	0	1.	0	1.	5	7.	35		
*Idaho	5,934	0	0	0	0	-	0	-	-	-	-	-	
Wyo.	51	0	0	0	0	20.	0	-	13	20.	13		
Colo.	1,590	0	0	0	0	t	0	0	+	t	+		
*N. M.	687	0	0	0	0	-	0	0	-	0	-	-	
*Ariz.	71	0	0	0	0	-	0	0	-	0	-	-	
*Utah	543	0	0	0	0	-	0	0	-	0	-	-	
*Nev.	49	0	0	0	0	-	0	0	-	0	-	-	
*Wash.	31,390	0	-	0	0	-	0	-	-	-	-	-	
Oreg.	3,900	0	-	0	0	-	0	-	-	-	-	-	
*Calif.	10,400	0	0	0	0	t	0	5.	207	6.	249		
U. S.	168,465	0.5:	591	0.4:	447	0.3:	414	0.8:	957	0.8:	930	14.1:	16,833
												18.4:	21,752

* Omitted in calculations for U. S. percentage loss.

Table 20. Estimated reduction in yield of peach due to leaf curl (*Taphrina deformans*), brown rot (*Sclerotinia fructicola*), virus diseases, scab (*Cladosporium carpophilum*), and other diseases, 1935.

Estimated reduction in yield due to diseases												
State	Production 1,000 Bushels	Leaf Curl 1,000 %	Brown Rot 1,000 %	Virus Diseases 1,000 %	Scab 1,000 %	All Diseases 1,000 %						
*N.H.	2	-	-	-	-	-						
Mass.	21	-	-	-	-	26.	7					
*R. I.	6	-	-	-	-	-	-					
Conn.	37	0.5	+	1.5	1	-	2.	1				
*N.Y.	793	-	-	-	-	-	-					
*N.J.	800	-	-	-	-	-	-					
Pa.	1,675	8.	171	10.	213	0.5	11	2.	43	21.5	459	
Ohio	1,606	2.	35	3.	52	-	-	3.	52	8.2	143	
Ind.	900	5.	48	1.5	14	-	-	-	-	6.5	62	
Ill.	3,285	10.	391	5.	196	t	+	1.	39	16.	626	
Mich.	1,966	15.	373	3.	75	3.	75	t	+	21.	523	
Iowa	81	2.	2	3.	3	-	-	-	-	5.	5	
Mo.	1,186	t	+	-	-	-	-	-	-	t	+	
*Nebr.	60	-	-	-	-	-	-	-	-	-	-	
*Kans.	198	-	-	-	-	-	-	-	-	-	-	
*Del.	225	-	-	-	-	-	-	-	-	-	-	
Md.	332	2.	9	5.	22	0.5	2	2.	8	12.	52	
Va.	774	2.	16	5.	42	t	+	t	+	7.	58	
W. Va.	300	5.	17	3.	10	t	+	1.	3	10.	33	
N. C.	2,205	0.5	14	10.	271	1.	27	5.	135	18.5	501	
S. C.	1,731	t	+	5.	105	t	+	10.	209	15.	314	
*Ga.	5,628	-	-	-	-	-	-	-	-	-	-	
*Fla.	52	-	-	-	-	-	-	-	-	-	-	
*Ky.	546	-	-	-	-	-	-	-	-	-	-	
Tenn.	899	1.5	21	35.	496	t	+	t	+	36.5	517	
Ala.	825	2.	19	10.	94	-	-	-	-	12.	113	
Miss.	550	-	-	10.	61	-	-	-	-	10.	61	
Ark.	1,320	2.	29	1.	14	-	-	t	+	8.	115	
*La.	175	-	-	-	-	-	-	-	-	-	-	
*Okla.	816	-	-	-	-	-	-	-	-	-	-	
Texas	1,391	1.	21	3.	64	0.5	11	2.	43	11.5	246	
*Idaho	160	-	-	-	-	-	-	-	-	-	-	
Colo.	1,276	0	0	t	+	6.	81	0	0	6.	81	
*N.M.	103	-	-	-	-	-	-	-	-	-	-	
*Ariz.	67	-	-	-	-	-	-	-	-	-	-	
*Utah	680	-	-	-	-	-	-	-	-	-	-	
*Nev.	8	-	-	-	-	-	-	-	-	-	-	
*Wash.	928	-	-	-	-	-	-	-	-	-	-	
Oreg.	297	1.	3	3.	10	-	-	-	-	7.	23	
*Calif.	17,876	-	-	-	-	-	-	-	-	-	-	
U. S.	52,380	4.3	1,169	6.4	1,743	0.8	207	2.	532	14.5	3,940	

* Omitted in calculations for U. S. percentage loss.

Table 21. Estimated reduction in yield of cherry due to brown rot (*Sclerotinia fructicola*), leaf spot (*Coccomyces hiemalis*), and other diseases, 1935.

Production:		Estimated reduction in yield due to diseases					
State	Tons	Brown Rot		Leaf Spot		All Diseases	
		%	Tons	%	Tons	%	Tons
Mass.		20.	+	0.5	+	30.5	+
Conn.		2.	+	1.	+	3.	+
*N. Y.	22,550	-	-	-	-	-	-
Pa.	7,360	15.	1,512	10.	1,008	27.	2,722
Ohio	4,260	2.	92	5.	229	7.	321
Ind.		-	-	5.	+	5.	+
Ill.		5.	+	5.	+	10.	+
Mich.	26,660	2.	684	20.	6,836	22.	7,520
Wis.	5,040	t	+	7.	379	7.	379
Iowa		3.	+	1.	+	4.	+
Mo.		-	-	18.	+	18.	+
Md.		5.	+	3.	+	8.	+
Va.		4.	+	1.	+	8.	+
W. Va.		0.5	+	2.	+	2.5	+
N. C.		10.	+	t	+	12.	+
Tenn.		t	+	35.	+	35.	+
Ark.		t	+	50.	+	50.	+
Texas		3.	+	-	-	3.	+
Mont.	674	0	0	t	+	3.	21
*Idaho	3,024	-	-	-	-	-	-
Colo.	4,662	0	0	0	0	0	0
*Utah	3,540	-	-	-	-	-	-
*Wash.	10,400	-	-	-	-	-	-
Oreg.	12,600	5.	685	2.	274	8.	1,096
*Calif.	16,660	-	-	-	-	-	-
Twelve States	117,430	4.	2,973	11.9	3,726	16.4	12,059

* Omitted in calculations for U. S. percentage loss.

Table 22. Estimated reduction in yield of grape from black rot (*Guignardia bidwellii*), and other diseases, 1935.

East of Rocky Mountains

State	Estimated reduction in yield due to diseases							
	Production:		Black Rot		Other Diseases		All Diseases	
	Tons							
		%	Tons	%	Tons	%	Tons	
*Maine	14	-	-	-	-	-	-	-
N. H.	36	90.	32	-	-	90.	32	
*Vt.	26	-	-	-	-	-	-	-
Mass.	322	4.	17	20.	85	24.	102	
*R. I.	154	-	-	-	-	-	-	-
Conn.	946	1.	10	1.	10	2.	20	
*N. Y.	66,500	-	-	-	-	-	-	-
*N. J.	3,116	-	-	-	-	-	-	-
Pa.	24,750	15.	4,473	2.	596	17.	5,069	
Ohio	29,110	4.	1,226	1.	306	5.	1,532	
*Ind.	2,849	-	-	-	-	-	-	-
Ill.	6,560	3.	203	-	-	3.	203	
Mich.	56,310	2.	1,173	2.	1,173	4.	2,346	
Wis.	340	2.	7	2.	7	4.	14	
Minn.	364	t	+	t	+	0.5	2	
*Iowa	7,371	-	-	-	-	-	-	-
*Mo.	8,840	t	+	-	-	-	-	-
*Nebr.	2,584	-	-	-	-	-	-	-
*Kans.	3,894	-	-	-	-	-	-	-
*Del.	2,697	-	-	-	-	-	-	-
Md.	676	8.	59	1.	7	9.	66	
Va.	1,541	10.	175	2.	35	12.	210	
W. Va.	798	5.	44	5.	44	10.	88	
N. C.	3,864	5.	215	5.	215	10.	430	
S. C.	854	25.	285	-	-	25.	285	
Ga.	707	5.	37	-	-	5.	37	
Fla.	868	2.	19	5.	46	7.	65	
*Ky.	839	-	-	-	-	-	-	-
Tenn.	855	40.	570	-	-	40.	570	
*Ala.	522	-	-	-	-	-	-	-
*Miss.	208	-	-	-	-	-	-	-
Ark.	13,520	25.	4,507	-	-	25.	4,507	
*La.	44	-	-	-	-	-	-	-
*Okla.	2,380	-	-	-	-	-	-	-
Texas	1,904	20.	586	15.	439	35.	1,025	
	144,325	8.5	13,638	1.8	2,963	10.3	16,603	

* Omitted in calculations for total percentage loss.

Table 23. Estimated reduction in yield of strawberry due to leaf spot (*Mycosphaerella fragariae*), leaf scorch (*Diplocarpon earliana*), dwarf (*Aphelenchoides fragariae*), black root and root rot (various causes), and other diseases and estimated loss from fruit rots, 1935.

Estimated reduction in yield due to diseases												
State:	Production:	Leaf Spot		Leaf Scorch		Dwarf		Black Root & Root Rots		All Diseases		Fruit Rots
	1,000:	1,000:		1,000:		1,000:		1,000:		1,000:		1,000
	Crates:	%	Crates:	%	Crates:	%	Crates:	%	Crates:	%	Crates:	%
Mass.:		2.	+	-	-	t	+	8.	+	30.	+	10.
Conn.:		0.5:	+	-	-	-	-	5.	+	6.5:	+	-
*N.Y.:	459	-	-	-	-	-	-	-	-	-	-	-
*N.J.:	460	-	-	-	-	-	-	-	-	-	-	-
Pa.:	320	1.	4	0.5:	2	-	-	10.	36	11.5:	42:	-
Ohio:	238	0.2:	1	-	-	-	-	3.	7	3.2:	8:	-
*Ind.:	220	-	-	-	-	-	-	-	-	-	-	-
Ill.:	348	t	+	t	+	0	0	5.	18	5.	18:	-
Mich.:	440	t	+	t	+	0	0	5.	23	5.	23:	-
Wis.:	297	t	+	t	+	0	0	5.	17	10.	34:	-
Minn.:		-	-	-	-	-	-	-	-	1.5:	+	-
Iowa:	132	3.	4	-	-	-	-	10.	14	13.	18:	-
*Mo.:	310	-	-	-	-	-	-	-	-	-	-	-
N.D.:		t	+	-	-	-	-	-	-	1.	+	-
*Kans.:	27	-	-	-	-	-	-	-	-	-	-	-
*Del.:	468	-	-	-	-	-	-	-	-	-	-	-
Md.:	715	1.	9	1.	9	t	+	15.	129	17.	147:	-
Va.:	693	3.	24	1.	8	-	-	10.	82	15.	122:	-
W.Va.:		t	+	-	-	-	-	t	+	-	-	-
N.C.:	770	2.	17	2.	17	2.	17	-	-	11.	94:	-
*S.C.:	40	-	-	-	-	-	-	-	-	-	-	-
*Ga.:	34	-	-	-	-	-	-	-	-	-	-	-
*Fla.:	546	-	-	-	-	-	-	-	-	-	-	-
*Ky.:	600	-	-	-	-	-	-	-	-	-	-	-
Tenn.:	908	2.	21	10.	106	t	+	2.5:	27	14.5:	154:	9.
*Ala.:	212	-	-	-	-	-	-	-	-	-	-	-
*Miss.:	36	-	-	-	-	-	-	-	-	-	-	-
Ark.:	370	1.	5	1.	5	1.	5	-	-	28.	144:	-
La.:	801	8.	87	3.	33	0.5:	5	-	-	26.5:	289:	5.
*Okla.:	28	-	-	-	-	-	-	-	-	-	-	-
Texas:	69	1.	1	1.	1	t	+	4.	3	8.	6:	0.5:
Mon*:		t	+	0	0	0	0	5.	+	11.	+	-
*Utah:	45	-	-	-	-	-	-	-	-	-	-	-
*Wash.:	765	-	-	-	-	-	-	-	-	-	-	-
Oreg.:	588	1.	8	t	+	-	-	5.	40	26.	207:	-
*Calif.:	742	-	-	-	-	-	-	-	-	-	-	-
U. S.:	11,681	2.3:	181	2.3:	181	0.3:	27	4.9:	396	16.3:	1,306:	6.9:

* Omitted in calculations for U. S. percentage loss.

° 24-quart crates, 36 pounds.