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THE PLANT DISEASE REPORTER

Issued By

Division of Mycology and Disease Survey

Supplement 100

Crop Losses from Plant Diseases in the United States

1936

June 10, 1937.

BUREAU OF PLANT INDUSTRY

UNITED STATES DEPARTMENT OF AGRICULTURE

CROP LOSSES FROM PLANT DISEASES IN THE UNITED STATES IN 1936

Compiled by

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FOREWORD

These estimates have been computed ~~and are~~ presented in the same manner as in previous years (Plant Disease Reporter Supplement 94, 1936). Additions and corrections will be gladly received and revisions will be published in the Reporter.

It may be well to call attention again to the fact that States from which no estimates for a particular crop are received are left out of the calculations for the percentage loss for the country as a whole. This results in a figure that may in some cases be greater, in others smaller, depending upon the crop and the disease, than would be the case if estimates were available from all States. Such completeness is at present not attainable and it is thought that a figure more representative for the country as a whole is obtained in this manner than if the estimates were diluted with the production for States not reporting.

The fact that these estimates are not claimed to be exact may also be emphasized again. In some cases, it is true, counts have been made on which a fairly accurate estimate can be based. In most cases, however, the figures are the result of the combined judgment of pathologists in the various States, based upon their individual observations and reports they have received. If these estimates are sincerely made they do permit comparison of one year with another, which is their main purpose and is all that is claimed for them. If we wait until really exact estimates are obtainable, a record that is of considerable comparative value will have been lost in the meantime.

Comparison of these estimates with those for 1935 show some considerable variations. Some of the more interesting are as follows:

Crop and Disease	Percent loss	
	1935	1936
Wheat, stem rust	23.	0.4
Barley, stem rust	10.	t
Barley, scab	3.5	t
Oats, crown rust	8.	0.5
Field corn, ear rots		
except Diplodia	2.8	7.6
Field corn, stalk rots		
except Diplodia	1.1	3.3
Field corn, Diplodia	1.3	2.5
Apple, scab	14.1	2.8
Pear, blight	13.6	1.6
Peach, leaf curl	4.3	0.2
Cherry, leaf spot	11.9	0.4
Grape, black rot	8.5	3.1

Wheat (Continued)

		Estimated reduction in yield of wheat due to diseases											
Production:													
State	1,000 Bushels	Scab	Leaf Rust	Stem Rust	Bunt	Loose Smut	Foot Rots	Diseases	All				
		% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels	% : Bushels
Ark.	595	-	t	t	t	+	+	6	-	-	-	1.	6
Okla.	27,520	0.5	1.5	t	3.	928	+	618	1.	309	11.	3,402	
Texas	18,927	t	2.	t	0.1	21	+	421	4.	842	10.1	2,126	
Mont.	13,626	0.	t	t	2.	288	+	43	3.	432	5.3	763	
Idaho	21,096	0.	t	2.	454	1,134	+	-	t	+	7.	1,588	
Wyo.	1,164	0.	t	t	1.5	18	+	+	t	+	1.5	18	
Colo.	10,691	0.	t	1.	334	3.	+	+	0.	0	4.	445	
*N. M.	1,023	0.	-	-	-	-	-	-	-	-	-	-	-
*Ariz.	1,104	0.	-	-	-	-	-	-	-	-	-	-	-
Utah	4,477	0.	0.	5.	259	5.	259	104	0.5	26	13.5	700	
*Nev.	274	0.	-	-	-	-	-	-	-	-	-	-	-
*Wash.	46,193	0.	-	-	-	-	-	-	-	-	-	-	-
Oreg.	20,340	0.	0.1	t	+	432	+	+	3.5	757	5.9	1,276	
*Calif.	16,731	0.	-	-	-	-	-	-	-	-	-	-	-
U. S.	626,461	0.1	1.	5,536	0.4	2,085	1.2	7,160	1.1	6,542	1.	5,658	5.7:32,724

* 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 (Cibberella saubinetii), stem rust (Puccinia graminis), and other diseases, 1936.

Estimated reduction in yield of barley due to diseases																
: Production:		Stripe		Spot Blotch		Loose Smut		Covered Smut		Scab		Stem Rust		All Diseases		
State	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	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vt.	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mass.		0.	0.	0	1.	+	t	+	t	-	1.	+	5.	+	+	
Conn.		-	-	-	0.5	+	0.5	+	0.5	-	-	-	-	-	1.	
N. Y.	2,718	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N. J.	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pa.	1,764	0.5	10	1.	20	2.3	46	6.7	134	t	+	t	+	11.5	230	
Ohio	520	1.	5	-	0.1	-	1	t	+	t	+	t	+	1.1	6	
Ind.	380	t	+	-	-	t	+	t	+	-	0.	0	t	+	+	
Ill.	2,700	-	-	-	-	-	-	-	-	-	0.	0	0	-	-	
Mich.	3,580	0.1	4	0.1	4	0.2	7	0.2	7	0.1	4	t	+	0.7	26	
Wis.	17,896	0.5	95	1.	191	3.	572	0.7	134	t	+	t	+	6.2	1,183	
Minn.	31,620	0.5	155	t	+	1.	329	1.5	494	0.	0	0.	0	4.	1,317	
Iowa	7,056	3.	231	1.	77	0.5	39	1.	77	t	+	t	+	8.5	655	
Mo.	1,360	-	-	-	-	4.	57	1.	14	t	+	0.	0	5.	71	
N. D.	4,522	t	+	t	+	0.5	23	t	+	0.	0	0.	0	1.	46	
S. D.	8,977	3.	281	-	-	1.	94	t	+	-	-	0.	0	4.	375	
Nebr.	5,520	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
Kans.	4,004	t	+	t	+	3.	133	7.	311	t	+	t	+	10.	444	
Del.		t	+	-	-	-	-	t	+	-	-	-	-	-	-	
Md.	1,000	0.5	5	-	2.	3.	22	3.	32	2.	22	t	+	7.5	81	
Va.	900	3.	31	1.	10	3.	31	2.5	26	t	+	1.5	15	12.	123	
W. Va.	112	1.	1	-	-	2.5	3	3.	4	-	-	t	+	8.5	10	
N. C.	153	1.	2	1.	2	2.	3	1.	2	1.	2	-	-	8.	14	
Ga.		0.1	+	-	-	1.	+	2.	+	-	-	-	-	5.1	+	
Ky.	440	-	-	-	-	3.	14	3.	14	t	+	t	+	6.	28	

Barley (Continued)

Estimated reduction in yield of barley due to diseases															
Production:		Stripe		Spot Blotch		Loose Smut		Covered Smut		Scab		Stem Rust		All Diseases	
State	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels	%	1,000 Bushels
*Tenn.	432	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ark.		t	+	-	8.	+	1.	+	-	-	t	+	10.	+	+
*Okla.	780	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas	1,246	0.5	7	0.1	1	2.	27	0.5	7	1.	13	t	+	7.1	95
Mont.	798	1.	9	0.	0	1.	9	2.	17	0.	0	0.	0	8.	70
Idaho	3,432	t	+	0.	0	0.	0	0.5	17	0.	0	-	-	0.5	17
Wyo.	770	t	+	-	t	+	2.	2.	16	-	-	t	+	3.	24
Colo.	6,660	t	+	0.	0	3.	213	3.	213	0.	0	t	+	6.	426
*N. M.	126	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Ariz.	726	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Utah	1,739	t	+	-	-	-	2.	36	-	-	-	t	+	3.5	63
*Nev.	224	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Wash.	2,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oreg.	2,970	t	+	0.3	9	t	+	0.2	6	-	-	t	+	5.5	172
*Calif.	29,925	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U. S.	147,452	0.8	846	0.3	314	1.5	1,623	1.5	1,561	t	41	t	15	5.1	5,476

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

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, 1936.

		Estimated reduction in yield of rye due to diseases									
: Production:		Smut		Ergot		Leaf Rust		Stem Rust		All Diseases	
State:	1,000	:	1,000	:	1,000	:	1,000	:	1,000	:	1,000
:	Bushels	:	%	:	Bushels	:	%	:	Bushels	:	%
:	:	:	:	:	:	:	:	:	:	:	:
Mass.:		0.	0	1.	+	1.	+	2.	+	7.	+
R. I.:		-	-	-	-	5.	+	-	-	5.	+
Conn.:		-	-	-	-	1.	+	-	-	2.	+
N.Y.:	304	-	-	-	-	-	-	-	-	-	-
N.J.:	368	-	-	-	-	-	-	-	-	-	-
Pa.:	1,260	t	+	t	+	6.	85	t	+	11.	156
Ohio:	702	t	+	0.1	+	0.5	4	t	+	0.6	4
Ind.:	1,188	0.	0	t	+	0.	0	0.	0	t	+
Ill.:	862	t	+	0.	0	t	+	0.	0	t	+
Mich.:	1,622	t	+	t	+	t	+	t	+	0.5	8
Wis.:	2,100	t	+	t	+	3.	65	t	+	3.5	76
Minn.:	4,325	t	+	t	+	0.	0	0.	0	t	+
Iowa:	1,050	t	+	t	+	t	+	t	+	1.	11
Mo.:	225	-	-	-	-	t	+	0.	0	t	+
N. D.:	2,448	0.	0	t	+	0.	0	0.	0	t	+
S. D.:	1,608	-	-	2.	33	-	-	0.	0	2.	33
Nebr.:	3,442	-	-	-	-	-	-	0.	0	-	-
Kans.:	609	-	-	-	-	0.	0	0.	0	0.	0
Del.:	46	-	-	-	-	t	+	-	-	t	+
Md.:	188	-	-	-	-	-	-	-	-	-	-
Va.:	418	-	-	t	+	1.	4	1.	4	2.5	10
W. Va.:	104	t	+	t	+	0.5	+	0.	0	4.	4
N. C.:	390	-	-	-	-	t	+	-	-	8.	34
*S. C.:	75	-	-	-	-	-	-	-	-	-	-
Ga.:	99	-	-	-	-	0.1	+	-	-	3.1	3
*Ky.:	198	-	-	-	-	-	-	-	-	-	-
*Tenn.:	176	-	-	-	-	-	-	-	-	-	-
Ark.:		-	-	-	-	t	+	t	+	t	+
*Okla.:	144	-	-	-	-	-	-	-	-	-	-
Texas:	28	t	+	0.	0	1.	+	t	+	6.	2
Mont.:	90	0.	0	t	+	0.	0	0.	0	t	+
*Idaho:	88	-	-	-	-	-	-	-	-	-	-
Wyo.:	138	-	-	-	-	-	-	t	+	t	+
*Colo.:	232	-	-	-	-	-	-	0.	0	-	-
*Utah:	12	-	-	-	-	-	-	-	-	-	-
*Wash.:	189	-	-	-	-	-	-	-	-	-	-
Oreg.:	700	0.	0	t	+	0.1	1	t	+	0.4	3
*Calif.:	126	-	-	-	-	-	-	-	-	-	-
U. S.:	25,554	t	+	0.2	33	0.8	159	t	4	1.7	344

*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, 1936.

	Estimated reduction in yield due to diseases									
	Production:		Smuts		Stem Rust		Crown Rust		All Diseases	
State	1,000		1,000		1,000		1,000		1,000	
	Bushels	%	Bushels	%	Bushels	%	Bushels	%	Bushels	%
Maine	4,130	5.	217	-	-	-	-	5.	217	-
N.H.	342	1.	3	-	-	-	-	1.	3	-
*Vt.	2,078	-	-	-	-	-	-	-	-	-
Mass.	170	5.	9	1.	2	-	+	6.	11	-
*R.I.	64	-	-	-	-	-	-	-	-	-
Conn.	162	2.	3	-	-	1.	2	3.5	6	-
*N.Y.	18,392	-	-	-	-	-	-	-	-	-
*N.J.	1,568	-	-	-	-	-	-	-	-	-
Pa.	24,009	10.	2,760	t	+	t	+	13.	3,588	-
Ohio	40,535	3.5	1,470	t	+	t	+	3.5	1,470	-
Ind.	38,502	2.	786	t	+	-	-	2.	786	-
Ill.	99,608	1.5	1,660	t	+	0.5	553	10.	11,067	-
Mich.	32,181	1.5	491	t	+	0.1	33	1.7	557	-
Wis.	59,520	5.	3,166	t	+	1.	633	6.	3,799	-
Minn.	94,376	3.	2,934	t	+	0.	0	3.5	3,423	-
Iowa	161,955	2.	3,428	0.5	857	t	+	5.5	9,426	-
Mo.	29,330	10.	3,259	t	+	t	+	10.	3,259	-
N.D.	4,730	t	+	t	+	t	+	0.5	24	-
S.D.	12,712	1.	128	t	+	t	+	1.	128	-
*Nebr.	19,067	-	-	t	+	-	-	-	-	-
Kans.	32,186	20.	8,047	t	+	t	+	20.	8,047	-
Del.	61	0.5	+	-	-	t	+	0.5	+	-
Md.	1,131	5.	61	t	+	2.	24	7.	85	-
Va.	1,287	3.5	49	1.5	21	2.5	35	8.	112	-
*W.Va.	1,206	5.	65	t	+	1.	13	7.	91	-
N.C.	3,430	2.	75	-	-	3.	113	9.	339	-
*S.C.	8,473	-	-	-	-	-	-	-	-	-
Ga.	6,948	3.	229	-	-	4.	305	9.	687	-
*Fla.	128	-	-	-	-	-	-	-	-	-
Ky.	1,053	5.	55	0.	0	t	+	5.	55	-
*Tenn.	924	-	-	-	-	-	-	-	-	-
*Ala.	1,870	-	-	-	-	-	-	-	-	-
*Miss.	1,300	-	-	-	-	-	-	-	-	-
Ark.	3,075	2.	63	t	+	t	+	2.	63	-
La.	1,120	1.	13	3.5	46	10.	132	15.	198	-
Okla.	20,320	10.	2,322	t	+	1.5	348	12.5	2,902	-
Texas	22,552	4.	1,074	t	+	8.	2,143	16.	4,296	-
Mont.	2,244	5.	122	0.	0	0.	0	8.	195	-
Idaho	4,716	t	+	t	+	0.	0	t	+	-
Wyo.	1,474	5.	78	t	+	-	-	5.	78	-
Colo.	4,256	5.	224	t	+	t	+	5.	224	-
*N.M.	400	-	-	-	-	-	-	-	-	-
*Ariz.	300	-	-	-	-	-	-	-	-	-
Utah	1,080	2.	22	t	+	-	-	2.5	28	-
*Nev.	76	-	-	-	-	-	-	-	-	-
*Wash.	8,517	-	-	-	-	-	-	-	-	-
Oreg.	11,492	0.4	49	1.5	185	1.5	185	6.6	813	-
*Calif.	4,080	-	-	-	-	-	-	-	-	-
U. S.	789,100	3.9	32,862	0.1	1,111	0.5	4,524	6.6	55,977	-

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

FIELD CORN

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, 1936.

		Estimated reduction in yield due to diseases											
Production:		Smut			Ear Rots			Stalk Rots			All		
State	1,000 Bushels	%	1,000 Bushels	%	Root Rots	(except Diplodia)	(except Diplodia)	(except Diplodia)	Diplodia	Bacterial Wilt	Diseases		
*Maine	468	-	-	-	-	-	-	-	-	-	-	-	-
*N. H.	656	t	-	-	-	-	-	-	-	0.	-	-	-
*Vt.	2,964	-	-	-	-	-	-	-	-	-	-	-	-
Mass.	1,638	2.	35	2.	t	+	2.	35	0.	0.	6.	105	-
*R. I.	342	-	-	-	-	-	-	-	-	-	-	-	-
Conn.	1,938	2.	40	-	-	-	-	-	-	-	-	50	-
*N. Y.	19,840	-	-	-	-	-	-	-	-	-	-	-	-
*N. J.	7,373	-	-	-	-	-	-	-	-	-	-	-	-
Pa.	54,572	4.	2,662	t	+	8.	5,324	5.	3,328	t	+	11,980	-
Ohio	121,605	3.5	4,528	t	+	1.	1,294	1.	1,294	0.5	647	17,763	-
Ind.	115,413	0.5	614	2.	2,456	1.5	1,842	1.	1,228	1.	1,228	7,368	-
Ill.	217,751	3.7	14,569	6.	23,626	23.5	92,534	10.	39,376	1.5	5,906	716,011	-
Mich.	36,750	4.5	1,744	-	-	0.4	155	-	-	0.3	116	2,015	-
Wis.	44,080	1.5	715	t	+	1.	477	5.	2,383	t	+	3,575	-
Minn.	88,331	7.	6,758	1.	965	0.5	483	t	+	0.	0.	8,206	-
Iowa	212,240	5.	13,433	3.	8,060	3.	8,060	0.	0	10.	26,866	56,419	-
*Mo.	40,032	-	-	-	-	-	-	-	-	-	-	-	-
N. D.	2,530	1.	26	t	+	0.5	13	0.5	13	-	0.	52	-
S. D.	8,446	10.	1,030	-	-	8.	824	-	-	-	0.	1,854	-
*Nebr.	26,859	-	-	-	-	-	-	-	-	-	-	-	-
Kans.	11,036	1.	112	t	+	0.5	56	t	+	0.	0.	168	-
Del.	4,118	t	+	1.	42	0.5	21	-	-	-	-	63	-
Md.	18,396	-	-	2.	387	1.5	290	1.	194	0.5	97	968	-
Va.	30,014	3.	995	1.	332	1.	332	1.5	497	1.	332	3,151	-
W. Va.	11,569	2.	284	10.	1,420	3.	426	1.	142	0.5	-	2,627	-

		Estimated reduction in yield due to diseases											
Production:		Smut		Root Rots		Ear Rots		Stalk Rots		Diplodia		Bacterial	
State	1,000 Bushels	1,000	% Bushels	1,000	% Bushels	(except Diplodia)	% Bushels	(except Diplodia)	% Bushels	1,000	% Bushels	1,000	% Bushels
N. C.	43,475	3	1,553	2	1,035	2	1,035	3	1,553	t			8,281
*S. C.	23,535	-	-	-	-	-	-	-	-	-	-	-	-
Ga.	33,624	3	1,173	3	1,173	1	391	1	391	2	782	-	5,474
*Fla.	7,009	-	-	-	-	-	-	-	-	-	-	-	-
Ky.	54,486	1	559	-	-	t	+	t	+	1.5	838	-	1,397
*Tenn.	57,100	-	-	-	-	-	-	-	-	-	-	-	-
*Ala.	41,162	-	-	-	-	-	-	-	-	-	-	-	-
Miss.	32,570	2	808	-	-	-	-	-	-	-	-	-	808
*Ark.	26,738	t	+	-	-	-	-	-	-	-	-	-	-
La.	20,734	0.5	104	-	-	-	-	-	-	-	-	-	104
Okla.	11,772	1	133	0.5	67	3	399	1	133	3	399	-	1,530
Texas	63,915	0.5	392	3	2,353	8	6,274	3	2,353	2	1,568	t	14,508
*Mont.	540	-	-	-	-	-	-	-	-	-	-	0	-
Idaho	957	t	+	0	0	0	0	0	0	0	0	0	+
Wyo.	984	1	10	-	-	-	-	-	-	-	-	0	10
Colo.	11,169	6	721	t	+	1	120	0	0	0	0	0	841
*N. M.	2,135	-	-	-	-	-	-	-	-	-	-	0	-
*Ariz.	490	-	-	-	-	-	-	-	-	-	-	0	-
Utah	525	2	11	-	-	-	-	-	-	-	-	0	14
*Nev.	52	-	-	-	-	-	-	-	-	-	-	0	-
*Wash.	1,054	-	-	-	-	-	-	-	-	-	-	0	-
Oreg.	1,222	t	+	0.1	2	0	0	0	0	0	0	0	4
*Calif.	2,178	-	-	-	-	-	-	-	-	-	-	0	-
U. S.	1,524,317	3.4	52,007	2.7	41,953	7.6	120,350	3.3	52,885	2.5	38,885	t	166 : 29. : 315,346

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

SWEET CORN

Table 6. Sweet corn for manufacture; estimated reduction in yield of sweet corn due to smut (Ustilago zeae), bacterial wilt (Aplanobacter stewarti), stalk and ear rots (Diplodia zeae), and other diseases, 1936.

State	Estimated reduction in yield due to diseases									
	Production:	Smut		Bacterial		Diplodia		All		
	Short	Short		Wilt		Short		Diseases		
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	
Maine	60,800	t	+	0.	0	t	+	t	+	
*N. H.	2,700	-	-	t	+	-	-	-	-	
*Vt.	3,200	-	-	-	-	-	-	-	-	
Mass.		6.	+	t	+	2.	+	17.	+	
R. I.		t	+	-	-	-	-	-	-	
Conn.		3.	+	t	+	-	-	3.5	+	
N. Y.	37,300	2.	761	t	+	-	-	2.	761	
N. J.		-	-	t	+	-	-	-	-	
Pa.	21,100	6.	1,407	t	+	3.	703	10.	2,344	
Ohio	37,300	1.	377	0.1	38	t	+	1.1	415	
Ind.	39,600	5.	2,084	t	+	t	+	5.	2,084	
*Ill.	117,000	-	-	-	-	-	-	-	-	
Mich.	5,800	5.	306	0.	0	0.1	6	5.2	318	
Wis.	25,200	5.	1,400	t	+	5.	1,400	10.	2,800	
Minn.	100,000	7.	7,609	0.	0	t	+	8.	8,696	
Iowa	41,200	7.	3,315	t	+	3.	1,421	13.	6,157	
N. D.		1.	+	0.	0	-	-	1.5	+	
Kans.		t	+	0.	0	0.	0	t	+	
Del.	10,600	0.5	54	-	-	-	-	1.	108	
Md.	78,200	1.	833	0.1	83	-	-	6.1	5,080	
Va.		1.	+	1.5	+	0.5	+	3.5	+	
W. Va.		3.	+	3.	+	0.5	+	14.5	+	
Ky.		-	-	t	+	-	-	-	-	
*Tenn.	6,800	-	-	-	-	-	-	-	-	
Texas		10.	+	3.	+	3.	+	21.	+	
Idaho		t	+	0.	0	0.	0	t	+	
Wyo.		t	+	0.	0	-	-	-	-	
Colo.		5.	+	0.	0	0.	0	5.	+	
Oreg.		-	-	0.	0	-	-	0.5	+	
**Other										
States	18,300	-	-	-	-	-	-	-	-	
U. S.	605,100	3.7	18,146	t	121	0.7	3,530	5.9	28,763	

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

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

SWEET POTATO

Table 7. Estimated reduction in yield of sweet potato due to stem rot (*Fusarium* spp.), foot rot (*Plenodomus destruens*), black rot (*Ceratostomella fimbriata*), and other diseases, and estimated loss from storage rots (various organisms), 1936.

Estimated reduction in yield due to diseases											
State:	Production:	Stem Rot	Foot Rot	Black Rot	All Diseases	Storage Rots					
	1,000	1,000	1,000	1,000	1,000	1,000					
	Bushels	%	Bushels	%	Bushels	%	Bushels	%	Bushels	%	Bushels
Conn.:		t	+	-	t	+	-	-	-	-	-
N.J.:	2,400	3.	77	-	2.	52	7.	181	5.	120	
Pa.:		t	+	1.5	t	+	1.5	+	2.	+	
*Ind.:	320	t	+	-	-	-	-	-	-	-	*
*Ill.:	300	-	-	-	-	-	-	-	-	-	*
Iowa:	225	30.	97	0.	0.	0	30.3	98	-	-	*
*Mo.:	754	-	-	-	-	-	-	-	-	-	*
Kans.:	240	6.	15	-	t	+	7.	18	4.	10	
Del.:	910	1.	9	-	0.5	5	3.5	33	8.	73	
Md.:	1,200	2.	26	t	+	26	8.	104	8.	96	
Va.:	4,366	7.	336	t	+	96	9.	432	10.	437	
N.C.:	7,560	15.	1,418	-	t	+	20.	1,891	15.	1,134	
S.C.:	4,845	-	-	-	2.	102	5.	255	-	-	*
Ga.:	6,630	-	-	-	2.	135	2.	135	10.	663	
*Fla.:	1,235	-	-	-	-	-	-	-	-	-	*
Ky.:	1,342	15.	246	-	3.	49	18.	295	2.	268	
*Tenn.:	3,696	-	-	-	-	-	-	-	-	-	*
Ala.:	6,160	-	-	-	2.	126	2.	126	10.	616	
*Miss.:	6,474	t	+	-	-	-	-	-	10.	6.7	
Ark.:	2,145	2.	45	-	2.	45	4.	90	10.	215	
La.:	7,797	t	+	-	2.	161	3.	241	-	-	*
Okla.:	525	2.	11	3.	17	6	8.	45	20.	105	
Texas:	3,640	1.	46	0.	0	461	21.	968	12.	437	
*Calif.:	1,380	-	-	-	-	-	-	-	-	-	*
U.S.:	64,144	4.2	2,326	t	17	2.3	1,264	8.9	4,912	11.1	4,821

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

POTATO

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									
Production:									
State	1,000 Bushels	Mosaic	Leaf Roll	Late Blight	Rhizoctonia				
		1,000 Bushels	1,000 Bushels	1,000 Bushels	1,000 Bushels				
		%	%	%	%				
Maine	44,000	2.	1,048	1.	524	6.	3,143	2.	1,048
N. H.	1,666	5.	94	2.	37	1.	19	1.	19
Vt.	2,392	3.	111	5.	185	7.	259	7.	259
Mass.	2,415	3.	93	3.	93	3.	93	8.	248
*R. I.	720	-	-	-	-	-	-	-	-
Conn.	2,839	1.	30	-	-	-	-	0.5	15
*N. Y.	26,400	-	-	-	-	-	-	-	-
*N. J.	9,130	-	-	-	-	-	-	-	-
Pa.	26,268	3.	983	5.	1,638	t	+	2.	655
Ohio	14,040	0.5	86	5.	861	t	+	2.	345
Ind.	4,617	3.	153	2.	102	-	-	0.5	26
*Ill.	2,666	-	-	-	-	-	-	-	-
Mich.	26,125	0.2	64	1.	319	t	+	5.	1,593
Wis.	20,090	t	+	0.	0	0.	0	t	+
Minn.	12,502	5.	781	-	-	0.	0	3.	469
Iowa	3,551	8.	379	7.	331	0.	0	3.	142
*Mo.	2,860	-	-	-	-	-	-	-	-
N. D.	5,170	1.	55	1.	55	0.	0	1.	55
S. D.	783	1.	11	1.	11	0.	0	2.	23
*Nebr.	4,730	-	-	-	-	-	-	-	-
Kans.	1,710	t	+	-	-	-	-	5.	93
Del.	475	0.5	2	0.5	2	-	-	t	+
Md.	2,940	1.5	51	2.	68	0.5	17	2.	68
Va.	7,380	2.	178	2.	178	0.	0	1.	89
W. Va.	1,920	4.	128	12.	384	t	+	4.	128
N. C.	5,986	1.	68	2.	136	t	+	3.	204
*S. C.	1,656	-	-	-	-	-	-	-	-
Ga.	768	1.	9	0.1	1	0.1	1	2.	17
Fla.	2,349	1.	26	-	-	4.	105	2.	53
Ky.	1,692	t	+	t	+	0.	0	5.	91
*Tenn.	1,480	-	-	-	-	-	-	-	-
*Ala.	2,784	-	-	-	-	-	-	-	-
*Miss.	1,088	-	-	-	-	-	-	-	-
*Ark.	2,365	-	-	-	-	-	-	-	-
La.	2,652	3.	83	-	-	-	-	-	-
Okla.	2,112	-	-	-	-	0.	0	0.	0
Texas	2,860	2.	77	1.	38	t	+	1.	38
Mont.	1,520	4.	69	0.	0	0.	0	2.	35
Idaho	22,260	4.	937	t	+	0.	0	t	+
Wyo.	1,365	2.	32	t	+	t	+	3.	48
Colo.	18,500	t	+	0.	0	0.	0	1.	193
*N. M.	450	-	-	-	-	-	-	-	-
*Ariz.	180	-	-	-	-	-	-	-	-
Utah	1,830	3.	68	2.	45	0.	0	8.	182
*Nev.	406	-	-	-	-	-	-	-	-
*Wash.	8,010	-	-	-	-	-	-	-	-
Oreg.	7,310	5.	440	7.	616	t	+	5.	440
*Calif.	12,985	-	-	-	-	-	-	-	-
U. S.	329,997	2.	6,056	1.9	5,624	1.2	3,637	2.2	6,576

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

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, 1936.

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. : 1,048 :	- : - :	1. : 524 :	1. : 524 :	1. : 524 :	16. : 8,383 :					
N.H.:	1. : 19 :	- : - :	- : - :	t : + :	1. : 19 :	11. : 207 :					
Vt.:	0.2: 7 :	0.1: 4 :	10. : 370 :	1.5: 55 :	1.5: 55 :	35.3: 1,305 :					
Mass.:	t : + :	- : - :	3. : 93 :	0.5: 15 :	0.5: 15 :	22. : 601 :					
R.I.:	- : - :	- : - :	- : - :	- : - :	- : - :	- : - :					
Conn.:	1. : 30 :	0.5: 15 :	1. : 30 :	- : - :	1. : 30 :	5. : 150 :					
N.Y.:	- : - :	- : - :	- : - :	- : - :	- : - :	- : - :					
N.J.:	- : - :	- : - :	- : - :	- : - :	- : - :	- : - :					
Pa.:	t : + :	2. : 655 :	2. : 655 :	0.5: 164 :	0.3: 98 :	19.8: 6,486 :					
Ohio:	0.5: 86 :	2. : 345 :	6. : 1,034 :	1.5: 172 :	1.5: 250 :	18.5: 3,107 :					
Ind.:	- : - :	- : - :	- : - :	- : - :	4. : 204 :	9.5: 485 :					
Ill.:	- : - :	- : - :	- : - :	- : - :	- : - :	- : - :					
Mich.:	2.5: 797 :	1. : 319 :	5. : 1,593 :	0.2: 64 :	2.5: 797 :	18. : 5,737 :					
Wis.:	t : + :	t : + :	10. : 2,511 :	5. : 1,256 :	4. : 1,005 :	20. : 5,023 :					
Minn.:	t : + :	4. : 625 :	5. : 781 :	t : + :	2. : 313 :	20. : 3,125 :					
Iowa:	0. : 0 :	1. : 47 :	5. : 237 :	0.5: 24 :	0.5: 24 :	25. : 1,184 :					
Mo.:	- : - :	- : - :	- : - :	- : - :	- : - :	- : - :					
N.D.:	1. : 55 :	1.5: 83 :	0.5: 28 :	0. : 0 :	t : + :	6. : 331 :					
S.D.:	t : + :	10. : 114 :	10. : 114 :	0. : 0 :	2. : 23 :	31. : 353 :					
Nebr.:	- : - :	- : - :	- : - :	- : - :	- : - :	- : - :					
Kans.:	0.5: 9 :	t : + :	- : - :	- : - :	0.5: 9 :	8. : 148 :					
Del.:	- : - :	t : + :	0.5: 2 :	0.5: 2 :	t : + :	2. : 8 :					
Md.:	t : + :	1.5: 51 :	1. : 34 :	1. : 34 :	4. : 136 :	13.5: 459 :					
Va.:	1. : 89 :	- : - :	2. : 178 :	t : + :	7. : 622 :	17. : 1,512 :					
W.Va.:	3. : 96 :	1. : 32 :	8. : 256 :	t : + :	0.5: 16 :	40. : 1,280 :					
N.C.:	t : + :	1. : 68 :	3. : 204 :	1. : 68 :	1. : 68 :	12. : 816 :					
S.C.:	- : - :	- : - :	- : - :	- : - :	- : - :	- : - :					
Ga.:	2. : 17 :	- : - :	1. : 9 :	5. : 43 :	0.1: 1 :	11.3: 98 :					
Fla.:	1. : 26 :	0.5: 13 :	- : - :	t : + :	0.5: 13 :	10.5: 275 :					
Ky.:	t : + :	t : + :	1. : 18 :	t : + :	0.5: 9 :	7. : 127 :					
Tenn.:	- : - :	- : - :	- : - :	- : - :	- : - :	- : - :					
Ala.:	- : - :	- : - :	- : - :	- : - :	- : - :	- : - :					
Miss.:	- : - :	- : - :	- : - :	- : - :	- : - :	- : - :					
Ark.:	t : + :	- : - :	- : - :	- : - :	- : - :	- : - :					
La.:	- : - :	t : + :	- : - :	t : + :	t : + :	4. : 111 :					
Okla.:	3. : 71 :	5. : 119 :	- : - :	1. : 24 :	2. : 47 :	11. : 261 :					
Texas:	0.1: 4 :	0.1: 4 :	0.5: 19 :	5. : 192 :	10. : 385 :	25.7: 988 :					
Mont.:	t : + :	2. : 35 :	t : + :	t : + :	2. : 35 :	12. : 209 :					
Idaho:	1. : 234 :	t : + :	0. : 0 :	t : + :	t : + :	5. : 1,171 :					
Wyo.:	2. : 32 :	4. : 63 :	- : - :	t : + :	- : - :	14. : 223 :					
Colo.:	t : + :	1. : 193 :	0. : 0 :	2. : 385 :	t : + :	4. : 771 :					
N.M.:	- : - :	- : - :	- : - :	- : - :	- : - :	- : - :					
Ariz.:	- : - :	- : - :	- : - :	- : - :	- : - :	- : - :					
Utah:	t : + :	1. : 23 :	- : - :	t : + :	0.5: 11 :	19.5: 443 :					
Nev.:	- : - :	- : - :	- : - :	- : - :	- : - :	- : - :					
Wash.:	- : - :	- : - :	- : - :	- : - :	- : - :	- : - :					
Oreg.:	t : + :	- : - :	- : - :	t : + :	- : - :	17. : 1,496 :					
Calif.:	- : - :	- : - :	- : - :	- : - :	- : - :	- : - :					
U.S.:	0.9: 2,620 :	0.9: 2,808 :	2.9: 8,690 :	1. : 3,022 :	1.6: 4,717 :	15.7: 47,037 :					

Tomatoes (Continued)

: Produc- : tion :		Estimated reduction in yield due to diseases															
State:	Short Tons°	Septoria Blight	Fusarium Wilt	Bacterial Wilt	Early Blight	Nailhead Spot	Blossom-end: Rot	Curly-top	Diseases	All							
:	:	:Short: %	:Short: Tons	:Short: %	:Short: Tons	:Short: %	:Short: Tons	:Short: %	:Short: Tons	:Short: %							
Okla.:	3.	+	20.	:	1.	+	0.5:	+	3.	+	0.	:	29.5:	+			
Texas:	3.	+	5.	:	0.5:	+	0.	0	5.	+	0.5:	+	16.	+			
Idaho:	0.	0	0.	:	0.	0	0.	0	2.	+	25.	+	27.	+			
Colo.:	22,700:	t	t	:	0.	0	0.	0	1.	:	261.	783.	13.	3,392			
Utah:	58,500:	-	t	:	-	-	-	-	t	:	+	8,561.	18.	12,841			
Oreg.:	:	-	-	:	-	-	-	-	-	:	20.	+	20.	+			
*Calif.:	418,700:	-	-	:	-	-	-	-	-	:	-	-	-	-			
**Other:	:	:	:	:	:	:	:	:	:	:	:	:	:	:			
States:	66,902:	:	:	:	:	:	:	:	:	:	:	:	:	:			
U. S.:	1,975,900:	0.3:	3,418:	1.2:	16,530:	0.1:	1,917:	3.5:	48,388:	t	435:	2.9:	40,123:	0.7:	9,344:	13.5:	185,603

◦ Short tons, 2,000 pounds.

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

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

TOMATOES

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, 1936.

Production		Estimated reduction in yield due to diseases											
State	1,000 Bushels	Septoria Blight	Fusarium Wilt	Bacterial Wilt	Early Blight	Nailhead Spot	Blossom-end Rot	Curly-top	Diseases	All			
		%	%	%	%	%	%	%	%	%	%	%	%
Maine		t	+	-	-	-	-	-	-	-	-	-	-
Mass.		1.	+	0.	7.	-	-	-	-	-	-	-	-
R.I.		t	-	-	10.	1.	-	-	-	-	-	-	-
Conn.		1.	+	0.5	-	1.	+	+	0.1	-	-	-	-
*N.Y.	1,332	t	+	-	-	-	+	+	-	-	-	-	-
*N.J.	2,310	-	-	-	-	-	-	-	-	-	-	-	-
Pa.	430	1.	6	2.	12	1.	6	8.	-	-	-	-	-
Ohio	352	t	+	3.	12	0.5	2	1.	4	0.5	-	-	-
Ind.	560	-	-	1.5	9	-	-	4.	24	-	-	-	-
Ill.	52	t	+	1.	1	t	+	2.	1	-	-	-	-
Mich.	480	3.	16	t	+	0.	0	t	+	-	-	-	-
Wis.	10.	+	+	t	+	0.	0	10.	+	t	-	-	-
Minn.	35	t	+	t	+	0.	0	0.	+	0.	-	-	-
Iowa	200	1.	+	t	+	0.	0	0.	0	0.	-	-	-
*Mo.		-	-	-	-	-	-	-	-	-	-	-	-
N.D.		t	+	t	+	t	+	t	+	0.	-	-	-
Kans.		-	-	-	-	-	-	-	-	-	-	-	-
Del.	25	1.	+	0.5	+	0.	+	+	+	+	+	+	+
Md.	1,160	0.1	2	1.	15	t	+	5.2	78	-	-	-	-
Va.	420	1.	5	10.	52	3.	16	2.	10	0.	-	-	-
W.Va.		1.	+	2.	+	-	-	t	+	-	-	-	-
N.C.	69	3.	3	3.	3	5.	5	-	-	2.	5.	0.	0.
*S.C.	315	-	-	-	-	-	-	-	-	-	-	-	-
Ga.	105	0.1	+	7.	14	0.1	+	5.	10	0.1	+	30.	0.
Fla.	2,470	-	-	2.	54	t	+	3.	81	1.5	40	-	-

Tomatoes (Continued)

Production		Estimated reduction in yield due to diseases												All	
State	1,000 Bushels	Septoria Blight	Fusarium Wilt	Bacterial Wilt	Early Blight	Spot	Rot	Blossom-end Rot	Curly-top	Diseases					
		: 1,000 : % : Bushels :	: 1,000 : % : Bushels :	: 1,000 : % : Bushels :	: 1,000 : % : Bushels :	: 1,000 : % : Bushels :	: 1,000 : % : Bushels :	: 1,000 : % : Bushels :	: 1,000 : % : Bushels :	: 1,000 : % : Bushels :					
Ky.	162	t : + : 3 :	6 : 0 :	0 : 0 :	0 : t :	+ : 15 :	30 : 0 :	0 : 19 :	0 : 19 :	38					
*Tenn.	693	- : - : - :	- : - : - :	- : - : - :	- : - : - :	- : - : - :	- : - : - :	- : - : - :	- : - : - :	-					
Miss.	1,009	- : - : 1 :	15 : 1 :	15 : 1 :	15 : t :	- : 20 :	301 : 0 :	0 : 33 :	0 : 33 :	497					
Ark.	1,000	t : + : t :	- : - : - :	- : - : - :	- : - : - :	- : - : - :	3 : 0 :	0 : 2 :	0 : 2 :	3					
La.	132	t : + : 3 :	4 : t :	+ : 2 :	3 : - :	- : t :	+ : 0 :	0 : 6 :	0 : 6 :	8					
Okla.	3,075	3 : + : 20 :	+ : 2 :	+ : 1 :	+ : 0.5 :	+ : 3 :	+ : 0 :	0 : 29.5 :	0 : 29.5 :	+					
Texas	3,075	3 : 110 : 5 :	183 : 0.5 :	18 : 2 :	73 : 0 :	0 : 5 :	183 : 0.5 :	18 : 16 :	18 : 16 :	585					
Mont.	0	0 : t :	+ : 0 :	0 : 0 :	0 : 0 :	0 : t :	+ : t :	+ : 3 :	+ : 3 :	+					
Idaho	0	0 : 0 :	0 : 0 :	0 : 0 :	0 : 0 :	0 : 2 :	+ : 25 :	+ : 27 :	+ : 27 :	+					
Colo.	475	t : + : t :	+ : 0 :	0 : 0 :	11 : 0 :	0 : 1 :	5 : 3 :	16 : 13 :	16 : 13 :	70					
Utah	88	- : - : t :	+ : + :	- : - :	- : - :	- : t :	+ : 12 :	13 : 18 :	13 : 18 :	19					
*Wash.	384	- : - : - :	- : - : - :	- : - : - :	- : - : - :	- : - : - :	- : - : - :	- : - : - :	- : - : - :	-					
Oreg.	225	- : - : - :	- : - : - :	- : - : - :	- : - : - :	- : - : - :	- : - : - :	- : - : - :	- : - : - :	-					
*Calif.	3,644	- : - : - :	- : - : - :	- : - : - :	- : - : - :	- : - : - :	- : - : - :	- : - : - :	- : - : - :	-					
U. S.	20,346	1 : 142 : 2.7 :	380 : 0.4 :	62 : 2.6 :	357 : 0.3 :	44 : 5.6 :	771 : 0.7 :	102 : 17 :	102 : 17 :	2,372					

° Bushels of 53 pounds.

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

SNAP BEANS

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, 1936.

: Produc-:		Reduction in yield due to diseases											
: tion :		Anthrac- :		Bacterial:		Mosaic :		Root Rots:		Rust :		All	
State:	Short :	nose :	Blights :	Short:	Short:	Short:	Short:	Short:	Short:	Short:	Short:	Short:	Diseases
:	Tons :	Short:	Short:	Short:	Short:	Short:	Short:	Short:	Short:	Short:	Short:	Short:	Short
:	:	% :	Tons:	% :	Tons:	% :	Tons:	% :	Tons:	% :	Tons:	% :	Tons
:	:	:	:	:	:	:	:	:	:	:	:	:	:
Maine:	2,900	t :	+	t :	+	- :	-	t :	+	t :	+	t :	+
N.H. :		t :	+	- :	-	- :	-	- :	-	t :	+	t :	+
N.Y. :	10,400	t :	+	0.5 :	54	1.5 :	162	1.5 :	162	t :	+	3.5 :	378
N.J. :		- :	-	- :	-	- :	-	- :	-	1. :	+	1. :	+
Pa. :	2,200	4. :	104	0.5 :	13	4. :	104	5. :	130	1. :	26	15.5 :	403
Ohio :		1. :	+	0.5 :	+	1. :	+	0.5 :	+	t :	+	3. :	+
Ind. :	1,100	- :	-	1. :	11	- :	-	- :	-	- :	-	1. :	11
Ill. :		0.3 :	+	0.3 :	+	10. :	+	1. :	+	- :	-	11.6 :	+
Mich.:	6,500	0. :	0	2.5 :	167	0. :	0	0.1 :	7	0. :	0	2.7 :	181
Wis. :	5,000	0. :	0	1. :	53	5. :	266	t :	+	0. :	0	6. :	319
Minn.:		t :	+	2. :	+	3. :	+	t :	+	0. :	0	6. :	+
Iowa :		t :	+	2. :	+	0. :	0	0. :	0	0. :	0	3. :	+
Del. :	1,100	t :	+	- :	-	- :	-	t :	+	- :	-	t :	+
Md. :	13,500	t :	+	1. :	141	0.5 :	70	2.5 :	352	- :	-	4.1 :	577
Va. :		0. :	0	3. :	+	2. :	+	3. :	+	10. :	+	28. :	+
N.C. :		t :	+	2. :	+	2. :	+	9. :	+	1. :	+	22. :	+
*S.C. :	100	- :	-	- :	-	- :	-	- :	-	- :	-	- :	-
Ga. :		1. :	+	- :	-	- :	-	- :	-	2. :	+	3. :	+
Fla. :		t :	+	t :	+	- :	-	t :	+	5. :	+	5. :	+
Ky. :		0. :	0	t :	+	3. :	+	t :	+	t :	+	4. :	+
*Tenn.:	1,200	- :	-	- :	-	- :	-	- :	-	- :	-	- :	-
Miss.:	1,800	t :	+	1. :	19	1. :	19	- :	-	- :	-	4. :	76
*Ark. :	400	- :	-	- :	-	- :	-	- :	-	- :	-	- :	-
La. :	700	t :	+	4. :	30	- :	-	2. :	15	t :	+	6. :	45
Okla.:		- :	-	50. :	+	10. :	+	8. :	+	- :	-	78. :	+
Texas:		t :	+	5. :	+	8. :	+	6. :	+	t :	+	24. :	+
Mont.:		0. :	0	1. :	+	5. :	+	1. :	+	0. :	0	7. :	+
Idaho:		0. :	0	t :	+	10. :	+	5. :	+	0. :	0	25. :	+
Colo.:	1,400	0. :	0	20. :	354	t :	+	t :	+	1. :	18	21. :	372
Utah :	2,000	- :	-	t :	+	2. :	41	t :	+	0.5 :	10	2.5 :	51
*Wash.:	2,800	- :	-	- :	-	- :	-	- :	-	- :	-	- :	-
Oreg.:	7,600	- :	-	- :	-	- :	-	- :	-	- :	-	5. :	400
Calif:	3,700	- :	-	- :	-	- :	-	- :	-	1. :	37	1. :	37
+Other:		:	:	:	:	:	:	:	:	:	:	:	:
States:	6,200	:	:	:	:	:	:	:	:	:	:	:	:
U.S. :	70,600	0.2 :	104	1.3 :	842	1.1 :	662	1.1 :	666	0.1 :	91	4.6 :	2,850

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

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

SNAP BEANS

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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* typical), and other diseases, 1936.

: Produc-		Reduction in yield due to diseases															
: tion :		Anthrac-	Bacterial:									All					
State:	1,000	nose	Blights	Mosaic	Root Rots:	Rust	Diseases										
: Bushels:	:1,000:	:1,000:	:1,000:	:1,000:	:1,000:	:1,000:	:1,000										
:	:	% Bushels:	% Bushels:	% Bushels:	% Bushels:	% Bushels:	% Bushels:										
Maine:		t	+	t	+	-	-	t	+	t	+	t	+				
N.H. :		t	+	-	-	-	-	-	-	t	+	t	+				
Mass.:		0.5:	+	3.	+	2.	+	6.	+	t	+	11.5:	+				
Conn.:		t	+	t	+	t	+	-	-	0.5:	+	1.	+				
N.Y. :	232	t	+	0.5:	1	1.5:	4	1.5:	4	t	+	3.5:	9				
N.J. :	1,341	-	-	-	-	-	-	-	-	1.	14	1.	14				
Pa. :	284	4.	13	0.5:	2	4.	13	5.	17	1.	3	15.5:	51				
Ohio :		1.	+	0.5:	+	1.	+	0.5:	+	t	+	3.	+				
Ind. :		-	-	1.	+	-	-	-	-	-	-	1.	+				
Ill. :	54	0.3:	+	0.3:	+	10.	6	1.	1	-	-	11.6:	7				
Mich.:	51	0.	0	2.5:	1	0.	0	0.1:	+	0.	0	2.7:	1				
Wis. :		0.	0	1.	+	5.	+	t	+	0.	0	6.	+				
Minn.:		t	+	2.	+	3.	+	t	+	0.	0	6.	+				
Iowa :		t	+	2.	+	0.	0	0.	0	0.	0	3.	+				
N.D. :		t	+	0.5:	+	2.5:	+	t	+	0.	0	3.	+				
Del. :	18	t	+	-	-	-	-	t	+	-	-	t	+				
Md. :	322	t	+	1.	3	0.5:	2	2.5:	8	-	-	4.1:	13				
Va. :	617	0.	0	3.	26	2.	17	3.	26	10.	86	28.	241				
W.Va.:		1.	+	5.	+	2.	+	2.	+	t	+	10.	+				
N.C. :	369	t	+	2.	10	2.	10	9.	43	-	-	23.	111				
*S.C. :	190	-	-	-	-	-	-	-	-	-	-	-	-				
Ga. :	202	1.	2	-	-	-	-	-	-	2.	4	3.	6				
Fla. :	4,300	t	+	10.	694	-	-	1.	69	22.	1,526	38.	2,636				
Ky. :		0.	0	t	+	3.	+	t	+	t	+	4.	+				
*Tenn.:	49	-	-	-	-	-	-	-	-	-	-	-	-				
*Ala. :	25	-	-	-	-	-	-	-	-	-	-	-	-				
Miss.:	430	t	+	1.	4	1.	4	-	-	-	-	4.	17				
*Ark. :	71	-	-	-	-	-	-	-	-	-	-	-	-				
La. :	756	t	+	4.	32	-	-	2.	16	t	+	6.	48				
Okla.:		-	-	50.	+	10.	+	8.	+	-	-	78.	+				
Texas:	538	t	+	5.	35	8.	57	6.	42	t	+	24.	169				
Mont.:		0.	0	1.	+	5.	+	1.	+	0.	0	7.	+				
Idaho:		0.	0	t	+	10.	+	5.	+	0.	0	25.	+				
Wyo. :		0.	0	5.	+	5.	+	4.	+	-	-	14.	+				
Colo.:	300	0.	0	20.	76	t	+	t	+	1.	4	21.	80				
N.M. :		0.	0	-	-	-	-	-	-	1.	+	1.	+				
Utah :		0.	0	t	+	2.	+	t	+	-	-	2.5:	+				
Oreg.:		0.	0	-	-	-	-	-	-	-	-	5.	+				
Calif:	1,870	0.	0	-	-	-	-	-	-	1.	19	1.	19				
U.S. :	12,019	0.1:	15	5.9:	884	0.7:	113	1.5:	226	11.	1,656	22.7:	3,422				

* Bushels of 30 pounds.

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

DRY BEANS

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, 1936.

Production		Estimated reduction in yield due to diseases											
State	1,000	Anthracnose	Bacterial Blight	Mosaic	Root Rots	Rust	All Diseases	1,000	1,000	1,000	1,000	1,000	1,000
	Bags	%	%	%	%	%	%	Bags	%	Bags	%	Bags	%
Maine	70	t	+	t	+	t	+	t	+	t	+	t	+
*Vt.	18	-	-	-	-	-	-	-	-	-	-	-	-
N.Y.	852	t	+	0.5	4	1.5	13	1.5	13	t	+	3.5	30
Mich.	2,656	0.	0	2.5	68	0.	0	0.1	3	0.	0	2.7	74
Wis.	12	0.	0	1.	+	5.	1	t	+	0.	0	6.	1
Minn.	6	t	+	2.	+	3.	+	t	+	0.	0	6.	+
*Nebr.	113	-	-	-	-	-	-	-	-	-	-	-	-
*Kans.	7	-	-	-	-	-	-	-	-	-	-	-	-
Mont.	168	0.	0	1.	2	5.	9	1.	2	0.	0	7.	13
Idaho	1,248	0.	0	t	+	10.	166	5.	83	0.	0	25.	415
Wyo.	460	0.	0	5.	27	5.	27	4.	21	-	-	14.	75
Colo.	1,091	0.	0	20.	276	t	+	t	+	1.	14	21.	290
N.M.	288	0.	0	-	-	-	-	-	-	1.	3	1.	3
*Ariz.	46	0.	0	-	-	-	-	-	-	-	-	-	-
Oreg.	6	0.	0	-	-	-	-	-	-	-	-	5.	+
Calif	4,081	0.	0	-	-	-	-	-	-	1.	41	1.	41
U. S.	11,122	t	+	3.2	377	1.8	216	1.	122	0.5	58	7.9	942

° Bags of 100 pounds.

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

GREEN PEAS

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, 1936.

	Production	Estimated reduction in yield due to diseases									
State	Short Tons	Bacterial Blight		Fusarium Wilt		Ascochyta Blight		Root Rots		All Diseases	
		Short	Tons	Short	Tons	Short	Tons	Short	Tons	Short	Tons
		%	Tons	%	Tons	%	Tons	%	Tons	%	Tons
Maine	1,910	-	-	-	-	t	+	t	+	t	+
N.Y.	13,180	-	-	t	+	t	+	8.	1,146	8.	1,146
Pa.	4,040	-	-	1.	48	t	+	15.	722	16.	770
Ohio	2,800	t	+	1.	29	0.5	15	2.	58	3.5	102
*Ind.	6,120	-	-	-	-	-	-	-	-	-	-
Ill.	12,300	-	-	-	-	-	-	1.	127	3.	381
Mich.	7,030	0.1	7	1.	72	0.1	7	1.	72	2.3	165
Wis.	43,200	t	+	1.	448	0.	0	2.	895	3.5	1,567
*Minn.	14,000	-	-	-	-	-	-	-	-	-	-
Iowa		0.	0	2.	+	0.	0	0.	0	2.	+
Del.	1,500	-	-	-	-	t	+	t	+	t	+
Md.	11,120	0.2	24	t	+	0.3	35	5.	588	5.5	647
Va.	3,020	t	+	-	-	-	-	2.	62	2.	62
Okla.		4.	+	2.	+	-	-	-	-	9.	+
Texas		t	+	t	+	0.	0	10.	+	15.	+
Mont.	2,140	t	+	t	+	t	+	8.	186	8.	186
Idaho		t	+	1.	+	0.	0	10.	+	11.	+
Wyo.		t	+	t	+	-	-	t	+	t	+
Colo.	3,510	t	+	0.	0	5.	240	20.	962	27.	1,298
Utah	12,060	-	-	t	+	-	-	5.	645	6.5	838
*Wash.	26,250	-	-	-	-	-	-	-	-	-	-
Oreg.	12,840	0.	0	t	+	1.	140	-	-	8.5	1,192
*Other											
States:	10,360										
U. S.	187,380	t	31	0.4	597	0.3	437	3.9	5,463	6.	8,354

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

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

GREEN PEAS

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, 1936.

State	Production 1,000 °Bushels	Estimated reduction in yield due to diseases							
		Bacterial	Fusarium	Ascochyta	Root Rots	All			
		Blight	Wilt	Blight		Diseases			
		1,000 % Bushels	1,000 % Bushels	1,000 % Bushels	1,000 % Bushels	1,000 % Bushels	1,000 % Bushels	1,000 % Bushels	1,000 % Bushels
Maine		-	-	t	+	t	+	t	+
Mass.		0.5	+	4.	+	2.	+	25.	+
Conn.		-	-	t	+	t	+	1.5	+
N. Y.	321	-	t	+	+	8.	28	8.	28
*N. J.	180	-	-	-	-	-	-	-	-
Pa.		-	1.	+	+	15.	+	16.	+
Ohio		t	+	1.	+	0.5	+	2.	+
Ill.		-	-	-	-	1.	+	3.	+
Mich.		0.1	+	1.	+	0.1	+	1.	+
Wis.		t	+	1.	+	0.	+	2.	+
Iowa		0.	0	2.	+	0.	0	0.	+
N. D.		-	-	t	+	0.	0	0.5	+
Del.		-	-	-	+	t	+	t	+
Md.	11	0.2	+	t	+	0.3	+	5.	1
Va.	88	t	+	-	-	2.	2	2.	2
N. C.	190	1.	2	3.	6	3.	6	1.	20
*S. C.	175	-	-	-	-	-	-	-	-
Ga.		-	-	-	5.	+	-	10.	+
Fla.	508	1.	6	-	1.	6	10.	61	104
*Miss.	192	t	+	-	-	-	-	-	-
La.	52	-	-	-	2.	1	-	2.	1
Okla.		4.	+	2.	+	-	-	9.	+
Texas	312	t	+	t	+	0.	0	10.	55
Mont.		t	+	t	+	t	+	8.	+
Idaho	440	t	+	1.	5	0.	0	10.	54
Wyo.		t	+	t	+	-	-	t	+
Colo.	760	t	+	0.	0	5.	52	20.	281
*Ariz.	34	-	-	-	-	-	-	-	-
Utah		-	-	t	+	-	-	5.	+
*Wash.	1,140	-	-	-	-	-	-	-	-
Oreg.	105	0.	0	t	+	1.	1	-	8.5
*Calif.	4,660	-	-	-	-	-	-	-	-
U. S.	9,168	0.2	8	0.3	11	2.	66	11.6	388

° Bushels of 30 pounds.

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

COTTON

Table 16. Estimated reduction in yield of cotton due to Anthrachose (Glomerella gossypii), angular leaf spot (Bacterium malvacearum), wilt (Fusarium vasinfectum), root knot (Heterodera marioni), root rot (Phybatotrichum omnivorum), malnutrition (non-parasitic), and other diseases, 1936.

: Produc- tion		Estimated reduction in yield due to diseases													
State:		Anthrac- nose		Angular Leaf Spot		Wilt		Root Knot		Root Rot		Malnutri- tion		All Diseases	
°Bales		:1,000:		:1,000:		:1,000:		:1,000:		:1,000:		:1,000:		:1,000:	
		%:Bales:		%:Bales:		%:Bales:		%:Bales:		%:Bales:		%:Bales:		%:Bales:	
*Mo.	310	-	-	-	-	-	-	-	-	0	-	-	-	-	-
Va.	34	2.	1	4.	2	-	-	-	-	0	1.	+	8.	3	
N.C.	612	t	+	3.	25	5.	42	2.	17	0.	0	17.	142	27.	226
*S.C.	820	-	-	-	-	-	-	-	-	0	-	-	-	-	-
Ca.	1,090	0.1	1	2.	26	8.	103	0.5	6	0.	0	2.	26	15.6	201
*Fla.	32	-	-	-	-	-	-	-	-	0	-	-	-	-	-
Tenn.	431	t	+	t	+	4.	18	-	-	0	-	-	-	4.	18
Ala.	1,140	t	+	t	+	8.	111	0.5	7	0.	0	6.	83	17.5	242
Miss.	1,910	t	+	t	+	3.	62	-	-	0	2.	42	42	8.	166
Ark.	1,295	t	+	1.	15	10.	152	1.	15	t	+	3.	46	15.	228
La.	763	2.	18	1.	9	4.	35	t	+	0	5.	44	44	14.	124
Okla.	290	-	-	-	-	-	-	1.	3	3.	10	2.	7	11.	36
Texas	2,945	t	+	2.	72	3.	108	0.5	13	3.	289	t	+	18.5	668
N.M.	110	-	-	3.	4	-	-	-	-	0.1	+	-	-	6.1	8
Ariz.	170	-	-	1.	2	-	-	0.5	1	5.	10	4.	8	12.5	25
Calif.	440	-	-	-	-	-	-	1.	5	-	-	-	-	3.	14
* All															
Others:	15														
U. S.	12,407	0.2	20	1.2	155	4.8	631	0.5	72	2.3	304	3.	398	14.8	1,959

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

• 500 pounds.

SUGAR BEET

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, 1936.

State	production:										
	1,000	Sugar Beet								All	
	Short	Nematode	Curly-top	Leaf Spot	Phoma Rot	Diseases					
	Tons	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
	%	% Short	% Short	% Short	% Short	% Short	% Short	% Short	% Short	% Short	
	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	
Ohio	272	0.	0	0.	0	1.5	5	0.5	2	12.	38
Mich.	936	0.	0	0.	0	0.1	1	1.5	15	5.1	51
Wis.		0.	0	0.	0	8.	+	t	+	8.	+
Minn.		0.	0	0.	0	2.	+	t	+	12.	+
Iowa		0.	0	0.	0	2.	+	1.	+	10.	+
Nebr.	783	1.	8	0.	0	t	+	-	-	5.	41
Mont.	649	t	+	t	+	1.	7	-	-	6.	42
Idaho	724	-	-	5.	38	-	-	-	-	5.	38
Wyo.	482	-	-	t	+	t	+	t	+	7.5	39
Colo.	2,227	1.	25	t	+	5.	125	t	+	11.	275
Utah	511	0.5	3	5.	27	t	+	0.5	3	6.5	36
Calif.	1,939	5.	111	5.	111	-	-	-	-	13.	289
Other											
States	654										
U. S.	9,177	1.6	147	1.9	176	1.5	138	0.2	20	9.1	849

Table 18. Estimated reduction in yield of pear due to blight (*Bacillus amylovorus*), scab (*Venturia pyrina*), leaf blight (*Fabraea maculata* and *Mycosphaerella sentina*), and other diseases, 1936.

State	Estimated reuction 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	5	-	-	-	-	-	-	-	-	-
N. H.	4	-	-	-	-	-	-	-	-	-
Vt.	2	-	-	-	-	-	-	-	-	-
Mass.	42	5.	2	t	+	t	+	5.	2	
R. I.	7	-	-	t	+	-	-	-	-	-
Conn.	18	2.	+	0.5	+	0.5	+	4.	1	
N. Y.	776	5.	41	t	+	t	+	5.	41	
N. J.	94	-	-	-	-	-	-	-	-	-
Pa.	279	15.	52	1.	3	2.	7	19.	65	
Ohio	174	3.5	6	0.5	1	0.1	+	4.1	7	
Ind.	56	8.	5	t	+	2.	1	10.	6	
Ill.	185	10.	21	0.	0	1.	2	11.	23	
Mich.	763	2.	16	t	+	0.	0	2.	16	
Wis.		2.	+	5.	+	0.	0	7.	+	
Minn.		t	+	-	-	-	-	t	+	
Iowa	33	0.	0	0.	0	0.	0	0.	0	
Mo.	67	-	-	-	-	t	+	t	+	
Nebr.	13	-	-	-	-	-	-	-	-	
Kans.	22	-	-	-	-	-	-	-	-	
Del.	38	t	+	-	-	8.	3	8.	3	
Md.	110	8.	10	0.5	1	2.	2	10.5	13	
Va.	274	2.	6	t	+	t	+	2.5	7	
W. Va.	16	1.	+	1.	+	2.	+	5.	1	
N. C.	181	8.	17	0.	0	5.	11	16.	34	
S. C.	82	10.	9	0.	0	2.	2	12.	11	
Ga.	189	10.	22	0.	0	2.	4	12.	26	
Fla.	67	10.	7	0.	0	-	-	10.	7	
Ky.	50	8.	4	-	-	-	-	8.	4	
Tenn.	123	8.	11	-	-	-	-	8.	11	
Ala.	295	10.	33	-	-	-	-	10.	33	
Miss.	335	20.	87	-	-	-	-	23.	100	
Ark.	61	t	+	-	-	-	-	t	+	
La.	77	10.	9	-	-	-	-	10.	9	
Okla.	10	-	-	1.	+	1.	+	2.	+	
Texas	325	10.	38	0.	0	0.	0	15.	57	
Idaho	58	10.	7	0.	0	0.	0	11.	8	
Colo.	333	t	+	0.	0	0.	0	t	+	
N. M.	27	-	-	-	-	-	-	-	-	
Ariz.	11	-	-	-	-	-	-	-	-	
Utah	91	3.	3	-	-	-	-	4.	4	
Nev.	8	-	-	-	-	-	-	-	-	
Wash.	5,400	t	+	-	-	-	-	t	+	
Oreg.	3,760	t	+	-	-	-	-	t	+	
Calif.	9,667	t	+	-	-	-	-	t	+	
U. S.	24,128	1.6	406	t	5	0.1	32	1.9	489	

Table 19. Estimated reduction in yield of apple due to bitter rot (*Glomerella cingulata*), black rot (*Physalospora obtusa*), blotch (*Phyllosticta solitaria*), cedar rust (*Gymnosporangium spp.*), blight (*Bacillus amylovorus*), scab (*Venturia inaequalis*), and other diseases, 1936.

:Production:		Estimated reduction in yield due to diseases											
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
:	%	: Bushels	%	: Bushels	%	: Bushels	%	: Bushels	%	: Bushels	%	: Bushels	%
Maine	576	-	-	-	-	-	-	-	-	-	-	-	-
N. H.	292	t	t	-	-	-	-	-	-	-	-	-	-
*Vt.	204	-	-	-	-	-	-	-	-	-	-	-	-
Mass.	1,716	t	1.	19	0.5	9	0.5	9	2.	38	9.	3.	169
R. I.	207	-	1.	2	2.	6	-	-	-	-	-	-	21
Conn.	796	t	1.	9	0.	9	1.	9	2.5	21	6.5	57	57
N. Y.	10,200	-	t	+	0.	53	1.	53	2.	107	4.5	481	481
N. J.	2,850	t	3.	92	t	+	2.	+	2.	61	7.	214	214
Pa.	7,072	t	3.	267	t	+	0.5	44	3.	267	10.	890	1,824
Ohio	2,660	t	0.1	3	0.1	3	0.5	14	2.5	70	1.5	42	132
Ind.	487	t	t	+	t	+	3.	16	5.	27	1.	5	48
Ill.	1,696	0.	1.	18	t	+	2.	36	1.	18	1.	18	90
Mich.	6,864	0.	t	+	0.	0	0.	0	t	+	2.	140	140
Wis.	1,100	0.	t	+	t	+	1.	12	2.	24	4.	47	83
Minn.	454	-	-	-	-	-	-	2	t	+	0.5	2	4
Iowa	901	0.	1.	10	0.5	5	1.	10	1.	10	5.	50	95
Mo.	649	-	0.5	3	t	+	t	+	t	+	0.1	1	11
N. D.	0.	0.	0.	0	0.	0	1.5	+	t	+	2.5	+	+
*S. D.	20	-	-	-	-	-	-	-	-	-	-	-	-
*Nebr.	236	-	-	-	-	-	-	-	-	-	-	-	-
Kans.	225	-	-	-	-	-	-	-	-	-	-	-	-
Del.	1,365	t	2.	29	-	-	-	-	t	+	3.	44	88
Md.	1,810	0.5	1.5	30	0.5	10	1.	20	1.5	30	2.	40	170
Va.	7,750	t	t	+	t	+	2.5	208	2.	167	1.5	125	583
W. Va.	3,520	t	t	+	t	+	t	+	1.	37	2.	75	224
N. C.	2,590	1.	t	+	1.	31	t	+	8.	247	1.	31	494

Apple (Continued)

:Production: Estimated reduction in yield due to diseases													
State	: 1,000	: Bitter Rot	: Black Rot	: Blotch	: Cedar Rust	: Blight	: Scab	: All Diseases					
: Bushels	: 1,000	: %	: 1,000	: %	: 1,000	: %	: 1,000	: %	: 1,000	: %	: 1,000	: %	: 1,000
	: Bushels	: %	: Bushels	: %	: Bushels	: %	: Bushels	: %	: Bushels	: %	: Bushels	: %	: Bushels
S. C.	220	1.	2	1.	2	t	+	-	-	-	-	2.	4
Ga.	851	1.	9	2.	18	0.1	1	0.1	1	0.1	1	3.	57
Ky.	572	t	+	t	+	t	+	2.	12	3.	18	6.	36
*Tenn.	1,140	-	-	-	-	-	-	-	-	-	-	-	-
*Ala.	576	-	-	-	-	-	-	-	-	-	-	-	-
*Miss.	160	-	-	-	-	-	-	-	-	-	-	-	-
Ark.	455	0.	0	t	+	t	+	t	+	t	+	2.	9
*La.	14	-	-	-	-	-	-	-	-	-	-	-	-
Okla.	15	-	-	2	20.	-	4	-	-	3.	1	33.	7
Texas	105	t	+	0.1	+	2.	2	5.	6	0.	0	10.1	12
Mont.	112	0.	0	0.	0	0.	0	1.	1	t	+	1.	1
Idaho	3,102	0.	0	0.	0	0.	0	0.5	16	t	+	2.5	80
*Wyo.	20	-	-	0.	0	0.	-	-	-	-	-	-	-
Colo.	1,972	0.	0	0.	0	0.	0	t	+	0.	0	t	+
*N. M.	812	-	-	0.	0	0.	-	-	-	-	-	-	-
*Ariz.	70	-	-	0.	0	0.	0	-	-	-	-	-	-
Utah	708	-	-	0.	0	0.	0	-	-	1.	7	2.	14
*Nev.	53	-	-	0.	0	0.	0	-	-	-	-	-	-
*Wash.	27,520	-	-	0.	0	0.	0	-	-	-	-	-	-
*Oreg.	4,368	-	-	0.	0	0.	0	-	-	-	-	-	-
*Calif.	8,946	-	-	0.	0	0.	0	-	-	-	-	-	-
U. S.	108,031	0.1	52	0.7	504	0.1	58	0.6	440	1.6	1,119	2.8	5,174

* 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, 1936.

State:	Production 1,000	Estimated reduction in yield due to diseases					
		Leaf Curl		Brown Rot		Virus Diseases	
		Scab		All Diseases			
		%	Bushels	%	Bushels	%	Bushels
*N.H.	8	-	-	-	-	-	-
Mass.	105	0.5	1	1	1	1	3.5
R.I.	28	1	+	2	1	-	3
Conn.	158	0.5	1	1.5	2	0.5	4.5
N.Y.	700	t	+	1	7	t	1
N.J.	1,380	1	15	6	89	+	7
Pa.	576	1	6	6	39	0.5	10.5
Ohio	168	t	+	0.1	+	t	0.6
*Ind.	12	-	-	-	-	-	-
Ill.	315	t	+	1	3	-	1
Mich.	1,334	0	0	t	+	1	13
Iowa	10	0	0	0	0	0	0
Mo.	66	t	+	-	-	-	t
*Nebr.	4	-	-	-	-	-	-
*Kans.	17	-	-	-	-	-	-
Del.	514	0.5	3	1	5	t	2.5
Md.	363	2	8	6	24	0.5	9.5
Va.	570	1	6	2	12	t	4
W.Va.	100	2	2	1	1	t	5
N.C.	1,800	t	+	7	147	-	14
*S.C.	1,525	-	-	-	-	-	-
Ga.	5,751	t	+	7	458	-	12.1
*Fla.	67	-	-	-	-	-	-
Ky.	110	t	+	2	2	0	2
Tenn.	840	-	-	2	17	-	2
Ala.	1,040	-	-	2	21	-	2
Miss.	759	-	-	5	40	-	5
Ark.	825	t	+	t	+	-	t
*La.	228	-	-	-	-	-	-
Okla.	16	0	0	10	2	-	10
Texas	1,200	t	+	2	30	2	19
Idaho	139	t	+	0	0	0	7
Colo.	1,213	0	0	1	13	3	4
*N.M.	65	-	-	-	-	-	-
*Ariz.	47	-	-	-	-	-	-
Utah	748	-	-	-	-	-	15
*Nev.	8	-	-	-	-	-	-
*Wash.	1,424	-	-	-	-	-	-
Oreg.	258	-	-	12.5	37	-	12.5
*Calif.	21,627	-	-	-	-	-	-
U. S.	46,118	0.2	42	4.1	951	0.4	88
							128
							8.6
							1,968

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

CHERRY

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Table 21. Estimated reduction in yield of cherry due to brown rot (*Sclerotinia fructicola*), leaf spot (*Coccomyces hiemalis*), and other diseases, 1936.

		: Estimated reduction in yield due to diseases						
: Production:		Brown Rot		Leaf Spot		All Diseases		
State	Tons	%	Tons	%	Tons	%	Tons	
Mass.		10.	+	0.5	+	10.5	+	
R. I.		25.	+	t	+	25.	+	
Conn.		2.	+	1.	+	3.5	+	
N. Y.	12,840	t	+	t	+	1.	130	
N. J.		2.	+	4.	+	7.	+	
Pa.	3,630	10.	437	5.	219	17.	743	
Ohio	770	0.1	1	0.2	2	0.3	3	
Ill.		t	+	t	+	t	+	
Mich.	27,450	t	+	t	+	t	+	
Wis.	1,700	t	+	4.	71	4.	71	
Iowa		0.	0	1.	+	1.	+	
Del.		1.	+	5.	+	6.	+	
Md.		3.	+	3.	+	6.	+	
Va.		2.	+	3.	+	5.	+	
W. Va.		1.	+	5.	+	7.	+	
N. C.		15.	+	t	+	17.	+	
Ark.		t	+	t	+	1.	+	
Okla.		2.	+	2.	+	4.	+	
Texas		t	+	-	-	1.	+	
*Mont.	130	-	-	-	-	-	-	
Idaho	1,890	0.	0	0.	0	1.	19	
Colo.	810	0.	0	0.	0	0.	0	
Utah	5,330	-	-	-	-	5.	281	
*Wash.	15,000	-	-	-	-	-	-	
Oreg.	14,500	12.5	2,071	-	-	12.5	2,071	
*Calif.	22,000	-	-	-	-	-	-	
U. S.	106,050	3.2	2,509	0.4	292	4.3	3,318	

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

Table 22. Estimated reduction in yield due to black rot (*Guignardia bidwellii*), and other diseases, 1936.

East of Rocky Mountains									
: Estimated reduction in yield due to diseases									
: Production: Black Rot : Other Diseases: All Diseases									
State	Tons	%	Tons	%	Tons	%	Tons	%	Tons
*Maine	10	-	-	-	-	-	-	-	-
*N. H.	20	-	-	-	-	-	-	-	-
*Vt.	10	-	-	-	-	-	-	-	-
Mass.	320	2.	7	4.	14	6.	21		
R. I.	200	1.	2	t	+	1.	2		
Conn.	1,160	1.	12	1.	12	2.	24		
N. Y.	41,800	1.	440	4.	1,760	5.	2,200		
N. J.	2,600	5.	144	5.	144	10.	288		
Pa.	15,800	15.	2,855	2.	381	17.	3,236		
Ohio	22,000	1.5	335	0.1	22	1.6	357		
Ind.	1,700	t	+	t	+	t	+		
Ill.	3,500	t	+	-	-	t	+		
Mich.	37,400	t	+	1.	378	1.	378		
Wis.	240	1.	2	2.	5	3.	7		
Minn.	210	0.	0	t	+	t	+		
Iowa	3,200	t	+	t	+	t	+		
Mo.	4,700	t	+	-	-	t	+		
*Nebr.	1,000	-	-	-	-	-	-		
*Kans.	1,100	-	-	-	-	-	-		
Del.	2,500	3.	77	t	+	3.	77		
Md.	690	8.	61	2.	15	10.	76		
Va.	1,500	15.	281	5.	94	20.	375		
W. Va.	540	3.	18	7.	42	10.	60		
N. C.	4,500	3.	147	5.	245	8.	392		
*S. C.	980	-	-	-	-	-	-		
Ga.	770	10.	103	15.	154	25.	257		
Fla.	1,090	25.	389	5.	78	30.	467		
Ky.	950	t	+	-	-	t	+		
Tenn.	1,050	t	+	-	-	t	+		
Ala.	580	5.	32	5.	32	10.	64		
Miss.	230	15.	46	10.	31	25.	77		
Ark.	10,600	t	+	1.	107	1.	107		
*La.	60	-	-	-	-	-	-		
Okla.	1,000	10.	125	10.	125	20.	250		
Texas	1,500	15.	281	5.	94	20.	375		
Reporting:									
Area	165,510	3.1	5,357	2.2	3,733	5.3	9,090		

* 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, 1936.

Estimated reduction in yield due to diseases													
State:	Production : 1,000 : Crates:	Leaf Spot : 1,000 : %	Scorch : 1,000 : %	Dwarf : 1,000 : %	Black Root : 1,000 : %	Root Rots : 1,000 : %	All Diseases : 1,000 : %	Fruit Rots : 1,000 : %					
Maine:	t	+	-	-	-	t	+	-	-	-	-	-	-
Mass.:	1.	+	-	-	t	+	10.	+	11.	+	10.	+	+
R.I.:	5.	+	-	-	-	-	5.	+	-	-	-	-	-
Conn.:	1.	+	1.	+	1.	+	-	-	4.5	+	-	-	-
*N.Y.:	252	t	+	-	-	-	-	-	-	-	-	-	-
*N.J.:	187	-	-	-	-	-	-	-	-	-	-	-	-
Pa.:	286	1.	3	0.5	2	0.	0	10.	32	11.5	37	-	-
Ohio:	240	0.2	1	-	-	0.	0	1.	2	1.2	3	-	-
*Ind.:	135	t	+	-	-	0.	0	-	-	-	-	-	-
Ill.:	252	t	+	0.	0	0.	0	5.	13	5.	13	-	-
Mich.:	770	t	+	t	+	0.	0	10.	86	10.	86	-	-
Wis.:	94	t	+	t	+	0.	0	4.	4	8.	8	-	-
Minn.:	t	+	-	-	0.	0	25**	+	25.	+	-	-	-
Iowa:	30	3.	1	0.	0	0.	0	1.	+	5.	2	-	-
Mo.:	301	t	+	-	-	-	-	-	1.	3	-	-	-
Kans.:	40	t	+	-	-	-	-	-	t	+	1.	+	+
Del.:	182	t	+	t	+	-	-	-	10.	20	-	-	-
Md.:	338	1.	4	1.5	6	t	+	7.	26	9.5	36	3.	10
Va.:	427	10.	61	5.	31	-	-	15.	92	30.	184	-	-
W.Va.:	t	+	t	+	-	-	2.	+	5.	+	-	-	-
N.C.:	519	3.	19	3.	19	5.	31	-	-	16.	100	-	-
*S.C.:	38	-	-	-	-	-	-	-	-	-	-	-	-
*Ga.:	41	-	-	-	-	-	-	-	-	-	-	-	-
*Fla.:	445	-	-	-	-	-	-	-	-	-	25.	111	-
Ky.:	189	t	+	-	-	0.	0	-	-	t	+	-	-
*Tenn.:	437	-	-	-	-	-	-	-	-	-	-	-	-
*Ala.:	184	-	-	-	-	-	-	-	-	-	-	-	-
*Miss.:	22	-	-	-	-	-	-	-	-	-	-	-	-
Ark.:	496	t	+	t	+	t	+	-	1.	5	-	-	-
La.:	1,243	10.	148	2.	30	t	+	-	16.	237	3.	37	-
Okla.:	15	0.5	+	3.	1	-	-	15.	3	28.5	6	-	-
Texas:	156	1.	2	t	+	t	+	10.	19	16.	30	-	-
Mont.:	t	+	0.	0	0.	0	25.	+	25.	+	-	-	-
Idaho:	t	+	0.	0	0.	0	5.	+	15.	+	-	-	-
Wyo.:	t	+	0.	0	0.	0	t	+	t	+	-	-	-
Colo.:	0.	0	0.	0	0.	0	15.	+	15.	+	-	-	-
Utah:	55	-	-	-	-	0.	0	15.	11	23.	17	-	-
*Wash.:	800	-	-	-	-	-	-	-	-	-	-	-	-
*Oreg.:	1,142	-	-	-	-	-	-	-	-	-	-	-	-
*Calif.:	694	-	-	-	-	-	-	-	-	-	-	-	-
U.S.:	10,010	3.7	239	1.4	89	0.5	31	4.5	288	12.3	787	-	-

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

** Includes winter injury.