Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

769P

MAR 7 1929

PLANT INDUSTRY

THE PLANT DISEASE REPORTER

ISSUED BY
THE OFFICE OF MYCOLOGY AND DISEASE SURVEY

SUPPLEMENT 64

Crop Losses from Plant Diseases in the United States in 1927

December 31, 1928

BUREAU OF
PLANT INDUSTRY
UNITED STATES DEPARTMENT OF AGRICULTURE

CROP LOSSES FROM PLANT DISEASES IN THE UNITED STATES IN 1927

Plant Disease Reporter
Supplement 64

December 31, 1928.

CONTENTS

Wheat	.371	Sweet Potato	.385	Peach	.393
Rye	.373	Tomato	.386	Pear	.395
Barley	.375	Bean	.387	Plum & Prune	.397
Oats	.377	Cotton	.389	Cherry	.398
Corn	.379	Grape	.390	Raspberry	.399
Potato	.381	Apple	.391		

INTRODUCTORY STATEMENT

For several years the Plant Disease Survey has prepared estimates of losses from plant diseases of some of the major crops. The following tables make up the eleventh annual compilation based principally on estimates of collaborators who are for the most part the plant pathologists at the Agricultural Experiment Stations and colleges.

The methods of calculation are the same as followed in other years.

Certain symbols have been used frequently in the tables. A dash (-) indicates no data available. A trace (t) in the percentage column indicates that the loss is less than one per cent and in most cases less than 0.1 per cent. A plus sign (+) is used where the percentage reduction in yield is a trace or where the production is too small to calculate the loss.

WHEAT

Estimated reduction in yield of wheat due to scab (*Gibberella saubinetii*),
leaf rust (*Puccinia triticina*), stem rust (*Puccinia graminis*),
and bunt (*Tilletia laevis* and *T. tritici*), 1927.

State	Production:		Estimated reduction in yield due to disease							
	1927		Scab		Leaf rust		Stem rust		Bunt	
	Bushels		Bushels		Bushels		Bushels		Bushels	
	(000	%	(000	%	(000	%	(000	%	(000	%
	omitted)		omitted)		omitted)		omitted)		omitted)	
Me.	72	-	-	-	-	-	-	-	-	-
Vt.	20	-	-	-	-	-	-	-	-	-
Conn.		-	-	-	-	-	-	-	-	-
N. Y.	6,291	-	-	1.	64	t	+	-	-	-
N. J.	1,380	-	-	-	-	t	+	-	-	-
Pa.	20,301	0.5:	129	6.	1,544	0.5:	129	7.	1,801	
Del.	1,862	0.5:	10	t	+	-	-	3.5:	68	
Md.	9,188	1.	106	0.5:	53	1.	106	6.	634	
Va.	8,381	t	+	1.5:	135	0.1:	9	3.	271	
W. Va.	1,796	t	+	1.	20	1.	20	t	+	
N. C.	5,163	t	+	3.	174	t	+	5.	290	
S. C.	880	-	-	2.	18	-	-	-	-	-
Ga.	1,150	-	-	-	-	-	-	-	-	-
Ohio	29,068	-	-	0.5:	152	t	+	2.	609	
Ind.	27,749	2.	708	13.	4,601	t	+	3.	1,062	
Ill.	34,844	4.9:	1,976	2.5:	1,008	0.8:	325	3.9:	1,573	
Mich.	19,270	t	+	1.	211	1.	211	5.	1,053	
Wis.	3,142	t	+	t	+	1.5:	49	0.5:	16	
Minn.	21,397	t	+	3.	988	30.	9,875	t	+	
Iowa	8,711	0	0	15.	1,548	0.6:	62	t	+	
Mo.	15,700	4.	661	t	+	t	+	t	+	
N. D.	124,970	1.	1,562	2.	3,124	10.	15,621	2.5:	3,905	
S. D.	46,193	t	+	3.	1,650	10.	5,499	2.	1,100	
Nebr.	73,826	-	-	2.	1,572	0.1:	79	3.	2,359	
Kans.	111,327	-	-	8.	10,214	0.5:	638	3.3:	4,213	
Ky.	3,059	0.5:	2	-	-	t	+	-	-	
Tenn.	3,696	t	+	20.	986	t	+	2.0:	98	
Ala.	74	-	-	-	-	-	-	-	-	
Miss.	102	-	-	-	-	-	-	-	-	
Texas	17,945	-	-	3.	564	0.5:	94	-	-	
Okla.	33,372	-	-	-	-	-	-	-	-	
Ark.	322	-	-	-	-	-	-	-	-	
Mont.	79,702	0	0	t	+	0.1:	88	5.	4,384	
Wyo.	4,412	0	0	-	-	t	+	-	-	
Colo.	21,997	0	0	t	+	t	+	5.	1,170	
N. Mex.	570	0	0	t	+	t	+	-	-	
Ariz.	1,450	0	0	-	-	14.	249	4.	71	
Utah	5,678	0	0	t	+	t	+	-	-	
Nev.	484	0	0	-	-	-	-	-	-	
Idaho	32,374	0	0	t	+	t	+	6.	2,135	
Wash.	53,344	0	0	t	+	t	+	2.	1,100	
Oregon	26,782	0	0	t	+	t	+	3.5:	976	
Calif.	13,642	0	0	-	-	-	-	-	-	
U. S.	871,691	0.5:	5,154	2.9:	28,626	3.3:	33,052	2.9:	28,888	

undulosum) and other diseases. 1927.

State	Estimated reduction in yield due to disease									
	Loose smut		Black chaff		Other diseases		Sum of traces and no data		All diseases	
	Bushels	%	Bushels	%	Bushels	%	Bushels	%	Bushels	%
	(000 omitted)		(000 omitted)		(000 omitted)		(000 omitted)		(000 omitted)	
Me.	t	+	0	0	-	-	-	-	-	-
Vt.	-	-	0	0	-	-	-	-	-	-
Conn.	1	+	0	0	0.5	+	-	-	1.5	+
N. Y.	1	64	0	0	-	-	-	-	2	128
N. J.	-	-	0	0	-	-	-	-	-	-
Pa.	1.5	386	0	0	5.6	1,441	0	0	21.1	5,430
Del.	t	+	0	0	0.5	10	-	-	4.5	88
Md.	0.5	53	0	0	4.0	422	0	0	13	1,374
Va.	2.5	226	0	0	0	0	t	+	7.1	641
W. Va.	6	118	0	0	t	+	1	20	9	178
N. C.	1	58	0	0	2	116	-	-	11	638
S. C.	-	-	0	0	1	9	-	-	3	27
Ga.	-	-	0	0	-	-	-	-	-	-
Ohio	1	304	-	-	1	304	-	-	4.5	1,369
Ind.	2	708	-	-	1.6	566	-	-	21.6	7,645
Ill.	0.8	323	-	-	0.7	282	-	-	13.6	5,485
Mich.	1.5	316	-	-	t	+	-	-	8.5	1,791
Wis.	t	+	t	+	1.0	32	-	-	3.0	97
Minn.	1.0	329	t	+	1.0	329	t	+	35.0	11,521
Iowa	t	+	0	0	t	+	t	+	15.6	1,610
Mo.	1	165	0	0	t	+	t	+	5	826
N. D.	2	3,124	0.5	781	2.0	3,124	0	0	20	31,241
S. D.	1	550	t	+	-	-	-	-	16.0	8,799
Nebr.	-	-	-	-	1	786	-	-	6.1	4,796
Kans.	t	+	-	-	1.0	1,277	-	-	12.8	16,342
Ky.	-	-	-	-	-	-	-	-	0.5	2
Tenn.	0.5	25	t	+	2	98	0.5	25	25	1,232
Ala.	-	-	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-	t	+
Texas	1	188	-	-	-	-	-	-	4.5	846
Okla.	-	-	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-	-	-
Mont.	-	-	1	877	3	2,630	-	-	9.1	7,979
Wyo.	t	+	-	-	-	-	-	-	-	-
Colo.	t	+	-	-	-	-	1	234	6	1,404
N. Mex.	-	-	-	-	-	-	-	-	-	-
Ariz.	0.5	9	0	0	t	+	0.1	2	18.6	331
Utah	1	57	-	-	-	-	-	-	1	57
Nev.	-	-	-	-	-	-	-	-	-	-
Ida.	1	356	t	+	2	712	-	-	9	3,203
Wash.	t	+	-	-	t	+	1	550	3	1,650
Oregon	t	+	0	0	0.5	139	-	-	4	1,115
Calif.	-	-	0	0	-	-	-	-	-	+
U. S.	0.8	7,359	0.2	1,653	1.2	12,277	0.1	831	11.9	117,845

Estimated reduction in yield of rye due to smut (*Urocystis occulta*), ergot (*Claviceps purpurea*), leaf rust (*Puccinia dispersa*), stem rust (*Puccinia graminis*), and other diseases, 1927

Estimated reduction in yield due to disease													
State	Produc- tion Bushels (000 omitted)	%	Smut		Ergot		Leaf rust		Stem rust		Other diseases		Sum of traces and no data : diseases : Bushels : (000 o- :

[illegible]

BARLEY

Estimated reduction in yield of barley due to stripe (Helminthosporium gramineum), loose smut (Ustilago nuda) and covered smut (Ustilago hordei), 1927.

State	Production:		Estimated reduction in yield due to disease							
	1927		Stripe		Loose smut		Covered smut			
	Bushels		Bushels		Bushels		Bushels		Bushels	
	(000 omitted)	%	(000 omitted)	%	(000 omitted)	%	(000 omitted)	%	(000 omitted)	%
Me.	108	-	-	-	-	-	-	-	-	-
Vt.	174	-	-	-	-	-	-	-	-	-
Conn.		-	-	.5		.5		.5		+
N. Y.	5,452	.75	42	2.	113	1.			57	
N. J.	74	-	-	-	-	-	-	-	-	-
Pa.	588	1.	6	3.3	21	1.2			8	
Md.	274	t	+	4.0	11	1.			3	
Va.	338	t	+	0.5	2	2.5			9	
N. C.	480	1.	5	-	-	-	-	-	-	-
S. C.		1.	+	1.	+	-	-	-	-	-
Ohio	4,185	-	-	.5	22	.5			22	
Ind.	665	-	-	-	-	-	-	-	-	-
Ill.	13,364	2.7	387	3.4	487	-			-	
Mich.	5,301	t	+	1.	55	2.			110	
Wis.	21,390	2.	443	t	+	0.5			111	
Minn.	45,090	.75	352	1.5	705	.75			352	
Iowa	14,318	2.	301	t	+	1.0			151	
Mo.	161	-	-	-	-	-	-	-	-	-
N. D.	42,406	1.	449	1.	449	1.			449	
S. D.	32,670	1.	339	1.	339	t			+	
Nebr.	7,577	t	+	t	+	0.5			38	
Kans.	5,695	t	+	1.	59	1.5			88	
Ky.	162	-	-	-	-	-	-	-	-	-
Tenn.	798	3.	26	2.	18	3.			26	
Texas	3,120	-	-	2.	64	1.			32	
Okla.	1,304	-	-	-	-	-	-	-	-	-
Mont.	6,435	0	0	3.	210	4.			280	
Wyo.	2,124	-	-	-	-	-	-	-	-	-
Colo.	10,032	3.	331	t	+	6.			661	
N. Mex.	144	-	-	-	-	-	-	-	-	-
Ariz.	700	t	+	0.5	4	1.5			11	
Utah	1,410	4.8	72	-	-	1.			15	
Nev.	405	-	-	-	-	-	-	-	-	-
Ida.	5,676	t	+	t	+	1.			58	
Wash.	2,436	t	+	-	-	0.5			12	
Oregon	3,185	t	+	t	+	0.5			16	
Calif.	27,335	-	-	-	-	-	-	-	-	-
U. S.	265,577	1.	2,753	0.9	2,559	0.9			2,509	

BARLEY (continued)

Estimated reduction in yield of barley due to leaf rust (Puccinia simplex), stem rust (Puccinia graminis), and other diseases, 1927.

State	Estimated reduction in yield due to disease									
	Leaf rust :		Stem rust :		Other diseases :		Sum of traces and no data :		All diseases :	
	Bushels :		Bushels :		Bushels :		Bushels :		Bushels :	
	% :	(000 omitted) :	% :	(000 omitted) :	% :	(000 omitted) :	% :	(000 omitted) :	% :	(000 omitted) :
Me.	-	-	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-	-	-
Conn.	-	-	-	-	-	-	-	-	1.	+
N. Y.	-	-	-	t	+	-	-	-	3.75	212
N. J.	-	-	-	-	-	-	-	-	-	-
Pa.	t	+	t	+	1.	6	-	-	6.5	41
Md.	t	+	t	+	t	+	-	-	5.	14
Va.	t	+	0	0	-	-	-	-	3.	11
N. C.	-	-	-	-	-	-	-	-	1.	5
S. C.	-	-	-	-	-	-	-	-	2.	+
Ohio	.5	22	1.0	43	1.1	48	-	-	3.6	157
Ind.	-	-	-	-	-	-	-	-	-	-
Ill.	.0.6	86	t	+	t	+	-	-	6.7	960
Mich.	1.	55	-	-	-	-	-	-	4.	220
Wis.	t	+	0.5	111	0.5	111	-	-	3.5	776
Minn.	t	+	t	+	1.0	470	-	-	4.	1,879
Iowa	0	0	t	+	2.0	301	-	-	5.	753
Mo.	-	-	-	-	-	-	-	-	-	-
N. D.	0	0	2.	897	0.5	224	0	0	5.5	2,468
S. D.	t	+	1.5	508	-	-	-	-	3.5	1,186
Nebr.	-	-	-	-	-	-	-	-	0.5	38
Kans.	t	+	t	+	0.5	29	-	-	3.	176
Ky.	-	-	-	-	-	-	-	-	-	-
Tenn.	t	+	-	-	1.	9	-	-	9.	79
Texas	-	-	-	-	-	-	-	-	3.	96
Okla.	-	-	-	-	-	-	-	-	-	-
Mont.	0	0	0	0	1.	70	0	0	8.	560
Wyo.	-	-	-	-	-	-	-	-	-	-
Colo.	-	-	t	+	t	+	-	-	9.	992
N. Mex.	-	-	-	-	-	-	-	-	-	-
Ariz.	.0.5	4	t	+	-	-	0.1	1	2.6	20
Utah	-	-	t	+	-	-	-	-	5.8	87
Nev.	-	-	-	-	-	-	-	-	-	-
Ida.	-	-	t	+	1.	58	-	-	2.	116
Wash.	-	-	-	-	t	+	0.5	12	1.	24
Oregon	-	-	-	-	t	+	-	-	0.5	16
Calif.	-	-	t	+	-	-	-	-	-	-
U. S.	t	167	0.6	1,559	0.5	1,326	t	13	3.9	10,886

OATS

Estimated reduction in yield of oats due to loose and covered smuts
(*Ustilago avenae* and *U. levis*), stem rust (*Puccinia graminis*),
crown rust (*Puccinia coronata*), and other diseases, 1927.

State	Estimate reduction in yield due to disease									
	Production:		Loose and		Stem rust		Crown rust		Other	
	: 1927	: Bushels	: covered smut	: Bushels:	: Bushels:	: %	: Bushels:	: %	: diseases	: All
		: (000)	: Bushels:	: (000)	: (000)	: %	: (000)	: %	: Bushels:	: Bushels
		: omitted)	: %	: omitted)	: omitted)	: omitted)	: omitted)	: omitted)	: omitted)	: (000
										: omitted)
Me.	4,773	2.	98	-	-	1.	49	-	-	147
N. H.	429	-	-	-	-	-	-	-	-	-
Vt.	3,237	-	-	-	-	-	-	-	-	-
Mass.	280	2.	6	-	-	-	-	-	-	6
R. I.	64	-	-	-	-	-	-	-	-	-
Conn.	480	1.5	7	-	-	-	-	-	-	7
N. Y.	35,000	5.	1,852	t	+	0.5	185	-	-	2,037
N. J.	1,764	1.5	27	-	-	-	-	-	-	27
Pa.	39,600	9.	4,073	1.	453	1.	453	1.5	679	5,658
Del.	116	t	+	-	-	-	-	0.5	1	1
Md.	1,708	5.	90	t	+	t	+	t	+	90
Va.	3,999	3.	124	-	-	0.5	21	-	-	145
W. va.	5,421	5.	285	t	+	t	+	-	-	285
N. C.	5,733	20.	1,433	-	-	-	-	-	-	1,433
S. C.	10,327	35.	5,561	-	-	-	-	-	-	5,561
Ga.	9,282	5.	494	-	-	1.	99	-	-	593
Fla.	121	2.5	4	-	-	15.	22	-	-	26
Ohio	60,800	5.5	3,596	0.5	327	0.5	327	0.5	327	4,577
Ind.	48,700	-	-	-	-	5.	2,563	-	-	2,563
Ill.	102,204	4.8	5,652	t	+	0.8	942	7.6	8,949	15,543
Mich.	54,170	3.	1,729	2.	1,153	1.	576	-	-	3,458
Wis.	93,247	3.	2,945	0.5	491	1.	982	0.5	491	4,909
Minn.	120,493	4.	7,901	15.	29,629	15.	29,629	5.	9,876	77,035

Estimated reduction in yield of corn due to smut (*Ustilago zeae*), leaf rust (*Puccinia sorghi*), brown spot (*Physoderma zeae-maydis*) and root-rot (*Gibberella saubinetii*), 1927.

State	Production:		Estimated reduction in yield due to disease							
	1927		Smut		Leaf rust		Brown spot		Root-rot	
	Bushels		Bushels		Bushels		Bushels		Bushels	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
	omitted		omitted		omitted		omitted		omitted	
Me.	518	t	+	-	-	0	0	-	-	-
N. H.	615	-	-	-	-	0	0	-	-	-
Vt.	3,276	-	-	-	-	0	0	-	-	-
Mass.	1,886	0.5	9	-	-	0	0	-	-	-
R. I.	380	-	-	-	-	0	0	-	-	-
Conn.	2,090	2.	43	-	-	0	0	-	-	-
N. Y.	22,542	1.	228	-	-	0	0	-	-	-
N. J.	7,160	1.	72	-	-	0	0	-	-	-
Pa.	50,165	3.	1,736	t	+	0	0	4.	2,314	-
Del.	4,725	0.5	24	-	-	0	0	t	+	-
Md.	22,660	0.5	133	t	+	0	0	10.	2,666	-
Va.	47,967	2.	1,043	-	-	0	0	3.	1,564	-
W. Va.	15,109	1.	159	1.	159	0	0	2.	318	-
N. C.	53,626	2.6	1,509	t	+	t	+	3.	1,741	-
S. C.	25,449	1.	262	t	+	t	+	-	-	-
Ga.	54,502	-	-	-	-	-	-	-	-	-
Fla.	7,449	2.	180	t	-	5.	449	5.	449	-
Ohio	109,720	3.	3,483	-	-	0	0	0.5	581	-
Ind.	132,458	0.2	316	-	-	0	0	3.	4,742	-
Ill.	254,070	0.2	540	t	+	t	+	-	-	-
Mich.	38,995	t	+	-	-	0	0	-	-	-
Wis.	68,250	1.5	1,197	t	+	0	0	-	-	-
Minn.	127,246	0.7	897	t	+	0	0	-	-	-
Iowa	399,566	3.	13,393	0	0	0	0	0	0	-
Mo.	172,637	2.	3,773	t	+	0	0	3.5	6,604	-
N. D.	23,975	4.	999	0	0	0	0	t	+	-
S. D.	134,995	t	+	-	-	0	0	2.	2,783	-
Nebr.	291,446	3.	9,014	-	-	0	0	0	0	-
Kans.	176,910	4.	8,630	-	-	t	+	8.	17,260	-
Ky.	75,010	-	-	t	-	0	0	-	-	-
Tenn.	70,656	1.	768	t	+	t	+	5.	3,840	-
Ala.	47,456	-	-	-	-	-	-	-	-	-
Miss.	34,140	-	-	t	+	1.	392	11.	4,317	-
La.	20,318	t	+	t	+	1.	257	-	-	-
Texas	119,347	1.	1,206	-	-	-	-	-	-	-
Okla.	84,190	-	-	-	-	-	-	-	-	-
Ark.	36,575	t	+	-	-	-	-	-	-	-
Mont.	7,168	-	-	-	-	0	0	2.	146	-
Wyo.	3,696	-	-	-	-	0	0	-	-	-
Colo.	22,816	t	+	-	-	0	0	-	-	-
N. Mex.	2,490	-	-	-	-	0	0	-	-	-
Ariz.	1,408	4.	59	0	0	0	0	-	-	-
Utah	494	-	-	-	-	0	0	-	-	-
Nev.	50	-	-	-	-	0	0	-	-	-
Ida.	3,116	t	+	-	-	0	0	t	+	-
Wash.	1,591	t	+	-	-	0	0	t	+	-
Oregon	2,916	-	-	-	-	0	0	-	-	-
Calif.	2,464	-	-	-	-	0	0	-	-	-
U. S.	2,786,260	1.7	49,673	t	159	t	1,098	1.6	49,325	-

CORN (continued)
Estimated reduction in yield of corn due to ear rots, (Fusarium
sp.) and other diseases. 1926.

State	Estimated reduction in yield due to diseases							
	Ear rots		Other diseases		Sum of traces and no data		All diseases	
	Bushels	Bushels	Bushels	Bushels	Bushels	Bushels	Bushels	Bushels
	% (000 omitted)	% (000 omitted)	% (000 omitted)	% (000 omitted)	% (000 omitted)	% (000 omitted)	% (000 omitted)	% (000 omitted)
Me.	t	*	-	-	-	-	-	-
N. H.	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	0.5	9
R. I.	-	-	-	-	-	-	-	-
Conn.	-	-	-	-	-	-	2.	43
N. Y.	-	-	-	-	-	-	1.	228
N. J.	-	-	-	-	-	-	1.	72
Pa.	5.3	3,067	1.	579	t	t	13.3	7,696
Del.	1.	48	-	-	-	-	1.5	72
Md.	4.5	1,200	t	+	-	-	15.	3,999
Va.	3.	1,564	-	-	-	-	8.	4,171
W. Va.	1.	159	-	-	-	-	5.	795
N. C.	2.	1,161	-	-	-	-	7.6	4,411
S. C.	-	-	2.	525	-	-	3.	787
Ga.	-	-	-	-	-	-	-	-
Fla.	5.	449	-	-	-	-	17.	1,527
Ohio	1.	1,161	1.	1,161	-	-	5.5	6,386
Ind.	3.	4,742	10.	15,806	-	-	16.2	25,606
Ill.	3.5 *	9,450	2.2	5,940	-	-	5.9	15,930
Mich.	-	-	-	-	-	-	-	-
Wis.	3.	2,395	10.	7,983	-	-	14.5	11,575
Minn.	-	-	-	-	-	-	0.7	897
Iowa	7.	31,251	0.5	2,232	0	0	10.5	46,876
Mo.	2.	3,773	1.	1,887	-	-	8.5	16,037
N. D.	t	+	t	+	-	-	4.	999
S. D.	1.	392	0	0	-	-	3.	4,175
Nebr.	t	+	-	-	-	-	3.	9,014
Kans.	6.	12,945	t	+	-	-	10.	38,835
Ky.	-	-	-	-	-	-	-	-
Tenn.	2.	1,536	-	-	-	-	8.	6,144
Ala.	-	-	-	-	-	-	-	-
Miss.	1.	392	t	+	-	-	13.	5,101
La.	10.	2,572	10.	2,572	-	-	21.	5,401
Texas	-	-	-	-	-	-	1.	1,206
Okla.	-	-	-	-	-	-	-	-
Ark.	-	-	t	+	-	-	-	-
Mont.	-	-	-	-	-	-	2.	146
Wyo.	-	-	-	-	-	-	-	-
Colo.	-	-	-	-	-	-	-	-
N. Mex.	-	-	-	-	-	-	-	-
Ariz.	0	0	-	-	-	-	4.	59
Utah	-	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-	-
Idaho	t	+	1.	31	-	-	1.	31
Wash.	t	+	-	-	-	-	-	-
Oregon	-	-	-	-	-	-	-	-
Calif.	-	-	-	-	-	-	-	-
U. S.	2.6	79,257	1.3	38,716	-	-	7.2	218,228

* This includes all the root, stalk and ear rots.

POTATO

Estimated reduction in yield of potato due to mosaic, leaf roll, late blight (*Phytophthora infestans*), rhizoctonia (*Rhizoctonia solani*), blackleg (*Bacillus phytophthorus*), and fusarium wilt (*Fusarium oxysporum*), 1927.

State	Estimated reduction in yield due to disease											
	Production:			Mosaic			Leaf roll			Late blight		
	1927	Bushels	(000 omitted)	%	Bushels	(000 omitted)	%	Bushels	(000 omitted)	%	Bushels	(000 omitted)
Me.	32,092	4.	2,025	1.	506	25.	12,655	2.	1,012	2.	1,012	0.
N. H.	1,800	-	-	-	-	-	-	-	-	-	-	-
Vt.	3,255	-	-	-	-	-	-	-	-	-	-	-
Mass.	1,400	5.	119	5.	119	30.	712	t	+	t	+	+
R. I.	220	-	-	-	-	-	-	-	-	-	-	-
Conn.	1,635	0.5	9	-	-	3.	52	-	-	t	+	+
N. Y.	28,620	3.	1,667	3.5	1,945	20.	11,115	5.	2,779	1.	556	t
N. J.	9,177	-	-	-	-	-	-	3.	284	0.1	9	-
Pa.	26,400	-	-	-	-	-	-	-	-	-	-	-
Del.	714	0.5	4	0.5	4	10.	83	-	-	-	-	-
Md.	5,246	5.	330	1.5	99	5.	330	5.	330	0.5	33	1.
Va.	19,760	t	+	t	+	1.	215	1.	215	1.	215	3.
W. Va.	5,989	-	-	-	-	t	+	t	+	1.	76	-
N. C.	7,368	5.	466	2.	187	1.5	140	2.	187	1.5	140	2.
S. C.	3,034	t	+	-	-	-	-	2.	64	-	-	-
Ga.	1,241	t	+	-	-	1.	13	t	+	0	0	-
Fla.	3,045	-	-	-	-	-	-	t	+	t	+	-
Ohio	12,180	-	-	-	-	-	-	-	-	t	+	-
Ind.	5,035	2.	107	4.	214	t	+	-	-	-	-	-
Ill.	5,376	-	-	-	-	-	-	-	-	-	-	-
Mich.	23,120	1.	280	1.	280	t	+	1.	280	1.	280	1.
Wis.	23,920	1.	261	0	0	0.5	131	2.	523	1.	261	t

POTATO (continued)

Estimated reduction in yield of potato due to tipburn and hopperburn, early blight (*Alternaria solani*), and other diseases, 1927.

State	Production :		Estimated reduction in yield due to disease									
	1927	Tipburn and hopperburn	Early blight	Other diseases	All diseases	Bushels		%		%		Bushels
	Bushels	Bushels	Bushels	Bushels	Bushels	(000)	(000)	(000)	(000)	(000)	(000)	(000)
	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)
	omitted)	omitted)	omitted)	omitted)	omitted)	omitted)	omitted)	omitted)	omitted)	omitted)	omitted)	omitted)
Me.	32,092	1.	506	t	t	+	+	+	+	35.	17,716	
N. H.	1,800	-	-	-	-	-	-	-	-	-	-	-
Vt.	3,255	-	-	-	-	-	-	-	-	-	-	-
Mass.	1,400	1.	24	t	-	+	+	+	+	41.	974	
R. I.	220	-	-	-	-	-	-	-	-	-	-	-
Conn.	1,635	-	-	t	-	+	+	2.	35.	5.5	96	
N. Y.	28,620	10.	5,557	0.5	0.5	278	278	5.5	3,057	48.5	26,954	
N. J.	9,177	-	-	t	t	+	+	-	-	3.1	233	
Pa.	26,400	-	-	t	-	+	+	-	-	-	-	-
Del.	714	1.	8	0.5	0.5	4	4	1.	8.	13.5	111	
Md.	5,246	t	+	0.5	0.5	5	5	2.	132	20.5	1,353	
Va.	19,760	1.	215	1.	1.	215	215	t	+	8.	1,719	
W. Va.	5,989	20.	1,516	t	-	+	+	-	-	21.	1,592	
N. C.	7,368	1.5	140	1.5	-	140	140	4.	373	21.	1,960	
S. C.	3,034	-	-	3.	3.	96	96	-	40.	5.	160	
Ga.	1,241	3.	40	0.5	0.5	7	7	5.	40.	7.5	100	
Fla.	3,045	-	-	t	-	+	+	-	-	-	-	-
Ohio	12,180	-	-	-	-	-	-	-	-	-	-	-
Ind.	5,035	-	-	t	-	+	+	-	-	6.	321	
Ill.	5,376	-	-	-	-	-	-	-	-	-	-	-
Mich.	23,120	5.	1,401	0.5	0.5	140	140	7.	1,962	17.5	4,903	
Wis.	23,920	4.	1,046	t	t	+	+	t	+	8.5	2,222	

Production :		Estimated reduction in yield due to disease									
State	1927 Bushels (000 omitted)	Tipburn and hopperburn		Early blight		Other diseases		All diseases		Bushels (000 omitted)	%
		Bushels (000 omitted)	%	Bushels (000 omitted)	%	Bushels (000 omitted)	%	Bushels (000 omitted)	%		
Minn.	33,128	4,141	10.	+	t	+	t	+	:20.	8,282	
Iowa	6,396	1,323	15.	+	t	+	5.	441	:27.5	2,425	
Mo.	7,055	79	1.	+	t	+	2.	159	:11.	873	
N. D.	11,526	255	2.	+	0.5	64	t	+	:9.5	1,210	
S. D.	7,590	-	-	-	-	-	-	-	-	-	
Nebr.	8,904	-	-	+	t	+	-	-	:1.5	-	
Kans.	5,390	-	-	+	t	+	-	-	:5.	135	
Ky.	4,732	4,056	30.	-	-	-	-	-	:65.	284	
Tenn.	3,432	77	2.	77	2.	77	0.1	4	:11.2	8,788	
Ala.	2,475	-	-	-	-	-	-	-	-	433	
Miss.	2,336	54	4.	7	0.5	14	1.0	14	:31.1	423	
Ia.	2,665	-	-	-	-	-	-	-	-	-	
Texas	2,310	-	-	-	-	-	-	-	-	-	
Okla.	2,925	-	-	117	3.	-	-	-	:25.	975	
Ark.	1,972	-	-	-	-	-	-	-	-	-	
Mont.	5,400	0	0	+	t	+	-	-	:20.5	1,393	
Wyom.	2,414	-	-	-	-	-	-	-	-	-	
Colo.	16,046	955	5.	+	t	+	1.	191	:16.	3,056	
N. Mex.	150	-	-	-	-	-	-	-	-	-	
Ariz.	320	0	0	6	1.5	6	5.	21	:25.	106	
Utah	2,970	-	-	+	t	+	:25.1	1,268	:41.2	2,082	
Nevada	780	-	-	-	-	-	-	-	-	-	
Idaho	24,380	0	0	+	t	+	2.	570	:14.5	4,134	
Wash.	12,430	-	-	+	t	+	1.	149	:10.	1,491	
Oregon	6,240	+	t	+	t	+	t	+	:22.1	1,771	
Calif.	7,956	-	-	-	-	-	-	-	-	-	
U. S.	402,149	21,393	4.3	1,184	0.2	8,424	1.7	8,424	:19.7	98,335	

SWEET POTATO

Estimated reduction in yield of sweet potato due to stem rot (*Fusarium hyperoxysporum* and *F. batatas*), foot rot (*Plenodomus destruens*) black rot (*Ceratostomella fimbriatum*), pox (*Actinomyces* sp.), other diseases and storage rots, 1927.

State	Estimated reduction in yield due to disease											
	Production: 1927	Stem rot:	Foot rot:	Black rot:	Pox:	Other diseases:	All diseases:	Storage rots				
	Bushels (000)	% : (000)	% : (000)	% : (000)	% : (000)	% : (000)	% : (000)	% : (000)	Bushels: (000)	Bushels: (000)	Bushels: (000)	Bushels: (000)
	: omitted)	: omitted)	: omitted)	: omitted)	: omitted)	: omitted)	: omitted)	: omitted)	: omitted)	: omitted)	: omitted)	: omitted)
N. J.	1,090	14	507	-	-	-	-	-	14	307	-	-
Del.	800	3	28	-	-	-	-	-	9	46	2	18
Ind.	1,564	2	33	t	25	1	17	0.5	8	83	20	316
Va.	5,805	3	181	t	60	t	-	-	-	241	5	290
I. Va.	330	0	0	0	0	0	0	0	0	0	0	0
N. C.	10,146	10	1,211	-	242	t	-	-	242	14	1,635	30
S. C.	5,300	t	+	-	101	-	-	-	55	3	154	10
Ga.	10,560	2	219	0	109	t	-	-	55	3.5	333	5
Fla.	2,668	-	-	-	-	-	-	-	-	-	-	-
Ohio	399	-	-	-	-	-	-	-	-	-	-	-
Ind.	224	-	-	-	7	-	-	-	-	3	7	-
Ill.	1,036	-	-	-	-	-	-	-	-	-	-	-
Iowa	270	8	24	0	6	0	0	1	3	11	33	t
Mo.	1,444	2	27	0	+	0	0	0	0	2	27	10
Kans.	400	-	-	-	-	-	-	-	-	-	-	-
Ky.	1,453	-	-	-	50	-	-	-	134	11	184	15
Tenn.	4,704	10	682	-	1,363	1	68	t	+	31	2,113	5
Ala.	7,550	-	-	-	-	-	-	-	-	-	-	-
Miss.	7,728	3	252	t	420	-	-	-	+	8	672	12
La.	9,702	-	-	-	-	-	-	-	-	-	-	-
Texas	11,970	-	-	-	-	-	-	-	-	-	-	-
Okl.	2,438	3	83	2	55	-	-	-	139	12	332	10
Ark.	4,406	3	142	-	95	-	-	-	95	7	332	25
N. Mex.	102	-	-	-	-	-	-	-	-	-	-	-
Ariz.	120	0	0	0	3	0	0	7	9	9	12	8
Calif.	1,080	5	57	-	-	-	-	-	-	5	57	-
U. S.	93,008	4.9	3,246	0.1	55	3.8	2,553	0.1	85	1.1	749	10
											6,688	12.7
												7,681

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

TOMATO

Estimated percentage reduction in yield of tomatoes due to blight (*Septoria lycopersici*), fusarium wilt (*Fusarium lycopersici*), bacterial wilt (*Bacillus solanacearum*), early blight (*Alternaria solani*), western blight (*Curly top*) and other diseases, 1927. (Production figures not available.)

State	Estimated reduction in yield due to disease						
	Blight	Fusarium wilt	Bacterial wilt	Early blight	Western (yellow) blight	Other diseases	All diseases
Mass.	t	-	t	t	0	13.	13.
Conn.	1.	-	-	1.	0	0.5	2.5
N. Y.	1.5	0.5	-	t	0	4.	6.
N. J.	-	-	-	10.	0	-	10.
Del.	2.	t	-	2.	0	2.	6.
Md.	1.	4.	t	7.	0	3.5	15.5
Va.	5.	2.	t	5.	0	2.	14.
W. Va.	t	-	-	t	0	1.	1.
N. C.	2.	5.	2.5	1.	0	4.	14.5
S. C.	1.	1.	2.	t	0	1.	5.
Ga.	t	5.	0.5	5.	0	16.5	27.
Ind.	6.	-	-	1.	0	1.	8.
Wis.	3.	t	0	t	0	t	3.
Minn.	t	t	0.	t	0	5.	5.
Iowa	5.	t	0	0	0	1.	6.
Mo.	10.	2.	0	2.	0	10.	24.
N. D.	-	-	-	-	0	0.75	0.75
Nebr.	0.75	0	0	t	0	t	0.75
Kans.	-	6.	-	-	0	-	6.
Ky.	50.	5.	-	-	0	-	55.
Tenn.	-	10.	-	20.	0	6.5	36.5
Miss.	t	13.	t	2.	0	8.	23.
Okla.	5.	10.	-	0	0	10.	25.
Ark.	2.	15.	-	-	0	-	17.
Colo.	-	2.	-	-	0	t	2.
Ariz.	0	12.	3.	0	35.	5.5	55.5
Utah	-	1.5	-	-	6.	13.5	21.
Idaho	0	0	0	0	5.	2.	7.
Wash.	-	t	t	-	10.	1.	12.
Oregon.	-	-	-	-	25.	5.	30.
Calif.	-	-	-	-	10.	-	10.

BEAN (continued)

State	Production (dry beans) 1927	Estimated reduction in yield due to disease									
		bacterial blight					Other diseases				
		Anthracnose	Bushels	%	Mosaic	Rootrots	Bushels	%	Bushels	%	All diseases
		(000 o--)	(000 o--)	(000 o--)	(000 o--)	(000 o--)	(000 o--)	(000 o--)	(000 o--)	(000 o--)	(000 o--)
		omitted)	omitted)	omitted)	omitted)	omitted)	omitted)	omitted)	omitted)	omitted)	omitted)
Mo.		t	0	0	0	0	0	5	+	5	+
Nebr.	62	t	t	t	t	t	t	t	-	-	-
Ky.		t	t	t	t	t	t	t	+	t	+
Tenn.		10	0.1	+	+	+	+	2	+	12.2	+
Miss.		2	4	+	+	+	+	2.5	+	10.5	+
Okla.		-	10	+	+	+	+	20	+	10	+
Mont.	935	t	5	54	7	76	2	22	-	14	152
Wyo. *	306	-	-	-	-	-	-	-	-	-	-
1,578		0	5	91	-	-	-	8	-	145	236
N. Mex.	975	-	-	-	-	-	-	-	-	-	-
64		0	3	2	6.5	5	1	0.5	+	11	8
Ariz.		-	-	+	8	+	1.5	+	-	10.5	+
Utah.		-	1	+	5	+	2	1	+	8	+
Idaho	1,706	0	0	0	5	+	+	-	-	8	+
Wash.		-	-	-	8	-	-	3	-	13	+
Oregon		-	t	+	10	+	-	-	-	-	-
Calif. *	4,825	-	-	-	-	-	-	-	-	-	-
U. S.	16,782	0.3	30	2.9	330	1.7	191	0.7	81	1.3	145
											785

* Omitted from calculations for total percentage loss.

COTTON

Estimated remuotion in yield of cotton due to anthracnose (*Colletotrichum gossypii*), angular leafspot (*Bacterium malvacearum*), wilt (*Fusarium vasinfectum*), rootknot (*Heterodera radicicola*), and other diseases, 1927.

Estimated reduction in yield due to disease													
State	Production: 1927 Bales (000) omitted)	Angular leafspot			Wilt			Rootknot			Other diseases		
		Bales (000) omitted)	%	t	Bales (000) omitted)	%	t	Bales (000) omitted)	%	t	Bales (000) omitted)	%	t
va.	32		2.	t		+	t		+	t		+	2.
N. C.	857		1.8	1.5		14	2.		19	1.		19	8.3
S. C.	735		t	+	1.	8	2.		15	t		8	4.
Ga.	1,100		t	+	t	+	1.		12	1.		59	7.
Fla. *	17		-	-	-	-	-		-	-		-	-
Ill.			0	0	+	0	0		0	t		+	t
Mo.	104		1.	0	0	0	t		+	1.		1	3.
Tenn.	345		10.	5.		21	1.		4	-		-	16.
Ala. *	1,200		-	-	-	-	-		-	-		-	-
Miss.	1,340		2.5	1.		15	5.5		81	t		-	9.
La.	545		0.2	-		-	4.		23	0.		0	1.
Texas	4,200		t	+	1.	54	2.		108	t		+	18.
Okla.	990		3.	1.		14	8.		198	5.		68	10.
Ark.	980		0.5	1.		11	4.		43	2.		22	2.
N. Mex. *	70		-	-	-	-	-		-	-		-	-
Ariz.	93		0	0.5		1	t		+	t		+	11.5
Calif. *	94		-	-		-	-		-	-		-	-
All	7												
others *													
U. S.	12,789		1.1	1.		144	3.1		413	0.8		112	9.2
												1,233	15.2
													2,046

GRAPE

Estimated reduction in yield of grape due to blackrot,
(*Guignardia bidwellii*), and other diseases, 1927.

Estimated reduction in yield due to disease									
State	Production:	Blackrot				Other diseases		All Diseases	
	1927	Tons		Tons		Tons		Tons	
	Tons	%	Tons	%	Tons	%	Tons	%	
Me.	58	-	-	t	+	-	-	-	
N. H.	91	-	-	-	-	-	-	-	
Vt.	45	-	-	-	-	-	-	-	
Mass.	555	2.	12	5.	30	7.	42		
R. I.	152	-	-	-	-	-	-	-	
Conn.	1,087	-	-	2.	22	2.	22		
N. Y.	51,520	t	+	t	+	t	+		
N. J.	2,535	-	-	-	-	-	-	-	
Pa.	14,850	-	-	-	-	-	-	-	
Del.	1,207	1.5	18	0.5	6	2.	24		
Md.	1,224	8.	103	1.	13	9.	121		
Va.	2,048	9.	206	1.5	34	10.5	240		
W. Va.	720	t	+	-	-	-	-	-	
N. C.	5,135	5.	276	2.	110	7.	386		
S. C.	1,540	2.	32	2.	32	4.	64		
Ga.	1,472	-	-	-	-	-	-	-	
Fla.	610	-	-	-	-	-	-	-	
Ohio	20,000	-	-	-	-	-	-	-	
Ind.	2,580	-	-	-	-	-	-	-	
Ill.	3,440	10.	391	2.	78	12.	469		
Mich.	51,700	t	+	2.	1,055	2.	1,055		
Wis.	250	1.	3	1.	3	2.	6		
Minn.	152	0	0	t	+	t	+		
Iowa	5,329	t	+	t	+	t	+		
Mo.	7,000	t	+	2.	143	2.	143		
Nebr.	1,955	t	+	0.5	10	0.5	10		
Kans.	3,735	1.	37	-	-	1.	37		
Ky.	632	6.	40	-	-	6.	40		
Tenn.	950	10.	107	1.	11	11.	118		
Ala.	627	-	-	-	-	-	-	-	
Miss.	225	5.	13	5.	13	10.	26		
La.	30	-	-	-	-	-	-	-	
Texas	1,260	3.	39	-	-	3.	39		
Okla.	1,732	10.	217	10.	217	20.	434		
Ark.	3,000	1.	31	1.	31	2.	62		
Colo.	314	-	-	-	-	-	-	-	
N. Mex.	458	0	0	-	-	-	-	-	
Ariz.	1,900	0	0	3.	59	3.	59		
Utah	1,320	0	0	-	-	-	-	-	
Nev.	270	0	0	-	-	-	-	-	
Idaho	304	0	0	-	-	-	-	-	
Wash.	3,200	0	0	t	+	0.5	16		
Oregon	3,500	0	0	2.	71	2.	71		
Calif.	2,264,000	0	0	-	-	-	-	-	
U. S. *	2,464,712	-	-	-	-	-	-	-	

* Data insufficient for calculating losses for United States.

Estimated reduction in yield of apple due to bitter rot (*Glomerella cin-
gulata*), blackrot (*Physalospora cydoniac*), blotch (*Phyllosticta
solitaria*), and cedar rust (*Gymnosporangium*), 1927.

State	Production:		Estimated reduction in yield due to disease							
	1927		Bitter rot		Blackrot		Blotch		Cedar rust	
	Bushels		Bushels		Bushels		Bushels		Bushels	
	(000	%	(000	%	(000	%	(000	%	(000	%
	omitted)		omitted)		omitted)		omitted)		omitted)	
Me.	2,236	0	0	t	+	0	0	-	-	-
N. H.	1,100	0	0	-	-	0	0	-	-	-
Vt.	990	0	0	-	-	0	0	-	-	-
Mass.	2,520	t	+	t	+	0	0	t	+	+
R. I.	242	-	-	-	-	0	0	-	-	-
Conn.	1,045	-	-	2.	22	0	0	1.	11	11
N. Y.	13,600	t	+	t	+	0	0	0.1	19	19
N. J.	2,697	t	+	t	+	0.3	9	t	+	+
Pa.	6,300	-	-	-	-	-	-	-	-	-
Del.	1,150	t	+	t	+	t	+	-	-	-
Md.	1,700	1.5	30	5.	101	1.	20	0.5	10	10
Va.	6,000	0.5	21	1.	71	t	+	4.	285	285
W. Va.	5,200	-	-	t	+	t	+	t	+	+
N. C.	1,825	3.5	82	2.5	59	3.5	82	3.	71	71
S. C.	563	-	-	-	-	-	-	1.	4	4
Ga.	595	5.	33	0	0	0	0	0	0	0
Ohio	5,600	-	-	-	-	-	-	-	-	-
Ind.	1,249	-	-	0.5	7	3.	43	-	-	-
Ill.	4,450	t	+	1.	49	5.	245	1.	49	49
Mich.	4,288	0	0	1.	56	0	0	t	+	+
Wis.	1,200	0	0	0	0	t	+	t	+	+
Minn.	854	0	0	t	+	0	0	1.	9	9
Iowa	1,720	0	0	t	+	t	+	t	+	+
Mo.	2,104	t	+	t	+	5.	118	t	+	+
S. D.	200	-	-	-	-	-	-	-	-	-
Nebr.	850	0	0	t	+	0.5	4	0.75	7	7
Kans.	1,925	0	0	-	-	5.	108	-	-	-
Ky.	720	t	+	t	+	3.	25	t	+	+
Tenn.	1,152	5.	75	2.	30	5.	75	0.5	7	7
Ala.	328	-	-	-	-	-	-	-	-	-
Miss.	152	5.	9	t	+	2.	4	0.5	1	1
La.	18	-	-	-	-	-	-	-	-	-
Texas	168	-	-	-	-	1.	2	-	-	-
Okla.	493	-	-	10.	93	20.	186	-	-	-
Ark.	1,015	t	+	5.	56	1.	11	1.	11	11
Mont.	277	0	0	0	0	0	0	0	0	0
Wyo.	40	0	0	0	0	0	0	0	0	0
Colo.	2,592	0	0	0	0	0	0	0	0	0
N. Mex.	456	0	0	0	0	0	0	0	0	0
Ariz.	62	0	0	0	0	0	0	0	0	0
Utah	660	0	0	0	0	0	0	0	0	0
Nev.	18	0	0	0	0	0	0	0	0	0
Ida.	6,000	0	0	0	0	0	0	0	0	0
Wash.	25,343	0	0	0	0	0	0	0	0	0
Oreg.	4,500	0	0	0	0	0	0	0	0	0
Calif.	7,458	0	0	0	0	0	0	0	0	0
U. S.	123,455	0.2	250	0.4	544	0.7	932	0.4	484	484

Estimated reduction in yield of apple due to fireblight (*Bacillus amylovorus*), scab (*Venturia inaequalis*), and other diseases, 1927.

State	Estimated reduction in yield due to disease							
	Fireblight		Scab		Other diseases		All diseases	
	Bushels		Bushels		Bushels		Bushels	
	% (000 omitted)	% (000 omitted)	% (000 omitted)	% (000 omitted)	% (000 omitted)	% (000 omitted)	% (000 omitted)	% (000 omitted)
Me.	-	20.	-	559	-	20.	-	559
N. H.	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-
Mass.	t	5.	137	3.	82	8.	219	
R. I.	-	-	-	-	-	-	-	-
Conn.	0.5	6	22	-	-	5.5	61	
N. Y.	t	25.	4,830	4.5	869	29.6	5,718	
N. J.	-	7.5	223	1.3	39	9.1	271	
Pa.	-	-	-	-	-	-	-	-
Del.	0.5	6	24	2.	24	4.5	54	
Md.	4.	81	61	1.1	22	16.1	325	
Va.	t	1.5	107	9.	641	15.8	1,125	
W. Va.	t	t	+	-	-	t	+	
N. C.	4.	94	94	2.	47	22.5	529	
S. C.	1.	4	8	-	-	4.	16	
Ga.	0.	0	-	5.	33	10.	66	
Ohio	-	-	-	-	-	-	-	-
Ind.	-	8.	114	1.	14	12.5	178	
Ill.	2.	98	+	t	+	9.	441	
Mich.	1.	56	1,114	1.	56	23.	1,262	
Wis.	1.	14	214	t	+	16.	228	
Minn.	2.	18	18	0.3	3	5.3	48	
Iowa	t	+	92	1.	18	6.	110	
Mo.	1.	24	+	5.	118	11.	260	
S. D.	-	-	-	-	-	-	-	-
Nebr.	t	+	9	-	-	2.25	20	
Kans.	2.	43	-	4.	87	11.	238	
Ky.	t	+	65	1.	8	12.	98	
Tenn.	0.5	7	105	3.	45	23.	344	
Ala.	-	-	-	-	-	-	-	-
Miss.	6.	11	+	-	-	13.5	25	
La.	-	-	-	-	-	-	-	-
Texas	5.	9	-	-	-	6.	11	
Okla.	2.	19	47	10.	93	47.	438	
Ark.	2.	23	11	-	-	10.	112	
Mont.	1.	3	32	1.	3	12.	38	
Wyo.	-	-	-	-	-	-	-	-
Colo.	t	+	+	t	+	t	+	
N. Mex.	-	-	-	-	-	-	-	-
Ariz.	2.	1	0	7.7	5	9.7	6	
Utah	0.2	1	0	3.	20	3.2	21	
Nev.	-	-	0	-	-	-	-	-
Ida.	t	+	0	3.	186	3.	186	
Wash.	t	+	+	1.	257	1.5	386	
Oreg.	0.1	5	9	2.	92	2.3	106	
Calif.	t	+	64	6.	480	6.8	544	
U. S.	0.4	523	7,959	2.4	3,242	10.3	14,063	

Production:		Estimated reduction in yield due to disease											
State	1927 Bushels (000 omitted)	Yellow and											
		Leaf curl			Brown rot			Little peach			Scab		
		Bushels: :(000 o- :mitted):	% :	+	Bushels: :(000 o- :mitted):	% :	+	Bushels: :(000 o- :mitted):	% :	+	Bushels: :(000 o- :mitted):	% :	+
Nebr.	82	t											
Kans.	259	-											
Ky.	160	7.	12.	29	0	0	0	0	2.	5	4.	10	25.
Tenn.	638	5.	10.	78	0	0	0	0	1.	8	2.	15	18.
Ala.	540	-											
Miss.	279	1.	15.	51	0	0	0	0	1.	3	1.	3	13.
La.	86	-											
Texas	800	-											
Okla.	760	2.	10.	100	0	0	0	0	2.	20	10.	100	24.
Ark.	1,628	3.	13.	59	0	0	0	0	1.	20	10.	136	17.
Colo.	892	t											
N. Mex.	40	-											
Ariz.	45	0											
Utah	561	-											
Nev.	2	-											
Idaho	144	t											
Wash.	250	t											
Oregon	160	0.5	1.	2	0	0	0	0	0	0	0	0	1.5
Calif.	20,500	3.											
U. S.	45,463	2.	1,016	4.7	2,379	0.1	57	0.3	177	3.	1,526	1.2	5,159

PEAR

Estimated reduction in yield of pear due to blight, (*Bacillus amylovorus*), scab (*Venturia pyrina*), leafblight (*Fabrea maculata*), and other diseases, 1927.

State	Production: 1927	Estimated reduction in yield due to disease									
		Blight					Other diseases				
		Bushels: (000)	%	Bushels: (000)	%	Scab (000)	Bushels: (000)	%	Leafblight (000)	Bushels: (000)	%
Me.	13	-	t	-	-	+	-	-	-	-	-
N. H.	14	-	-	-	-	-	-	-	-	-	-
Vt.	12	-	-	-	-	-	-	-	-	-	-
Mass.	81	1	1	1	t	1	+	2	2	4	4
R. I.	12	-	-	-	-	-	-	-	-	-	-
Conn.	54	1	0.5	1	1	+	1	-	-	3	2
N. Y.	1,872	38	0.7	13	-	-	-	-	-	2.7	51
N. J.	420	-	-	-	-	-	-	-	-	-	-
Pa.	400	-	-	-	-	-	-	-	-	-	-
Del.	128	2	t	+	t	+	0.5	1	2	3	3
Md.	193	18	1	2	5	11	-	14	31	4	4
Va.	130	3	t	+	0	0	1	3	11	9	11
W. Va.	12	-	-	-	-	-	-	-	-	-	-
N. C.	100	11	-	-	-	-	-	-	-	-	-
S. C.	68	8	-	-	1	-	-	-	-	-	-
Ga.	104	-	-	-	-	-	-	-	-	-	-
Fla.	44	-	-	-	-	-	-	-	-	-	-
Ohio	250	-	-	-	-	-	-	-	-	-	-
Ind.	140	-	-	-	-	-	-	-	-	-	-
Ill.	312	20	0	0	t	+	0	6	20	26	+
Mich.	702	22	0.5	4	t	+	+	3.5	+	+	+
Wis.	-	+	2	+	0	0	t	2	-	-	-

State	Estimated reduction in yield due to disease											
	Production:			Blight			Scab			Leaf-blight		
	1927	Bushels	(000 omitted)	%	Bushels	(000 omitted)	%	Bushels	(000 omitted)	%	Bushels	(000 omitted)
Iowa	41	10.	+	0	+	0	t	+	t	+	10.	+
Mo.	270	10.	31	t	+	0	0	0	2.	6	12.	37
Nebr.	36	t	+	-	-	-	-	-	-	-	-	-
Kans.	258	4.	11	-	-	-	-	-	-	-	4.	11
Ky.	34	-	-	-	-	-	-	-	-	-	-	-
Tenn.	125	25.	42	0	0	1.	2.	-	-	-	26.	44
Ala.	83	-	-	-	-	-	-	-	-	-	-	-
Miss.	120	15.	22	-	-	-	-	-	2.	3	17.	25
La.	50	-	-	-	-	-	-	-	-	-	-	7
Texas	345	2.	7	-	-	-	-	-	-	-	2.	-
Okla.	130	25.	68	20.	54	2.	5	5	5.	14	52.	141
Ark.	70	-	-	-	-	-	-	-	-	-	-	-
Colo.	40	t	+	-	-	-	-	-	-	-	t	+
N. Mex.	28	-	-	-	-	-	-	-	-	-	-	-
Ariz.	12	3.5	+	0	0	0	0	5.	5.	1	8.5	1
Utah	60	8.	5	-	-	-	-	-	-	-	8.	5
Nev.	2	-	-	-	-	-	-	-	-	-	-	-
Idaho	56	t	+	0	0	0	0	0	0	0	t	+
Wash.	1,578	t	+	t	+	0	0	t	t	+	0.5	8
Oregon	1,900	0.2	4	0	0	0	0	0	0.5	10	0.7	14
Calif.	7,333	4.	319	1.	80	-	-	-	3.	239	8.	638
U. S.	18,072	3.3	633	0.8	154	0.1	20	1.4	277	5.7	1,092	

PLUM AND PRUNE

Estimated percentage reduction in yield of plum and
prune due to brownrot (*Sclerotinia fructicola*),
and other diseases, 1927.

Estimated reduction in yield due to disease			
State	Brownrot	Other diseases	All diseases
	%	%	%
Mass.	5.	2.	7.
Conn.	4.	-	4.5
N. Y.	0.5	t	0.5
Del.	1.	0.5	1.5
Md.	7.	1.	8.
Va.	4.	1.	5.
N. C.	5.	-	5.
Ill.	25.	t	25.
Mich.	1.	0.5	1.5
Wis.	5.	t	5.
Minn.	25.	2.	27.
Iowa	5.	t	5.
Mo.	20.	t	20.
N. D.	t	10.	10.
Terin.	10.	2.	12.
Miss.	5.	1.	6.
Okla.	10.	10.	20.
Idaho	-	2.	2.
Wash.	t	t	1.
Oregon	10.	-	10.

CHERRY

Estimated percentage reduction in yield of cherry due
to brownrot (Sclerotinia fructicola), leafspot
(Coccomyces hiemalis), and other diseases,
1927.

State	Estimated reduction in yield due to disease				
	Brownrot		Leafspot		All
	diseases		diseases		diseases
	%		%		%
Mass.	5.	:	t	:	11.
Conn.	1.5	:	-	:	2.5
N. Y.	0.5	:	3.5	:	4.
Del.	0.5	:	1.	:	2.
Md.	1.	:	10.	:	22.
Va.	3.	:	1.	:	5.
N. C.	2.	:	-	:	2.
Mich.	1.	:	4.	:	5.
Wis.	t	:	1.	:	2.
Iowa	-	:	5.	:	13.
Mo.	t	:	50.	:	50.
Ky.	t	:	-	:	-
Tenn.	2.	:	15.	:	17.
Miss.	t	:	t	:	-
Okla.	10.	:	20.	:	35.
Ark.	t	:	5.	:	6.
Mont.	0	:	0.5	:	2.
Colo.	-	:	-	:	-
Utah	-	:	-	:	2.
Idaho	0	:	0	:	2.
Wash.	t	:	t	:	1.
Oregon	5.	:	0.2	:	5.2

RASPBERRY

Estimated reduction in yield of raspberry due to mosaic and leafcurl
(cause unknown), and other diseases, 1927.

State	Estimated reduction in yield due to disease		
	Mosaic and		
	Leafcurl	Other diseases	All diseases
	%	%	%
Me.	10.	-	10.
Mass.	23.	2.	25.
Conn.	5.	1.	6.
Del.	t	0.5	0.5
Md.	3.	6.	9.
Va.	t	6.	6.
Ind.	-	8.	8.
Ill.	0	12.	12.
Mich.	10.	5.	15.
Wis.	5.	5.	10.
Minn.	10.	8.	18.
Iowa.	t	13.	13.
Mo.	t	2.	2.
N. D.	-	1.	1.
Tenn.	-	2.	2.
Okla.	10.	10.	20.
Ark.	-	25.	25.
Mont.	t	-	t
Idaho	t	t	t
Wash.	10.	2.	12.
Oregon	0	2.	2.