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THE PLANT DISEASE REPORTER

Issued By

The Plant Disease Survey

Supplement 36

Crop Losses from Plant Diseases in the United States in 1923

December 30, 1924

BUREAU OF PLANT INDUSTRY

UNITED STATES DEPARTMENT OF AGRICULTURE

CROP LOSSES FROM PLANT DISEASES IN THE UNITED STATES IN 1923Plant Disease Reporter
Supplement 36

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INTRODUCTORY STATEMENT

Through its system of state collaborators the Plant Disease Survey for a number of years has made estimates of losses from plant diseases of some of the major crops. The estimates for 1923, herewith presented, are the seventh of the series that have been issued by the office. The methods followed in preparing these estimates have been the same as those used in previous years. (See Plant Disease Bulletin, Supplements 6, 12, 24, and 30.)

Estimated percentage loss to twelve crops from
plant diseases 1919 to 1923.

Crop	Percent loss					
	1919	1920	1921	1922	1923	
Wheat	16.96	11.70	9.2	8.7	11.82	
Rye	1.74	1.98	1.4	1.9	2.32	
Barley	5.90	4.60	5.7	4.6	5.69	
Oats	5.90	4.80	8.6	5.6	6.06	
Corn	6.41	6.39	8.8	6.0	10.7	
Potato	19.50	21.70	18.6	21.1	16.20	
Sweet potato	36.23	25.8	28.3	21.49	20.9	
Dry bean	3.70	4.3	14.1	16.1	10.0	
Cotton	13.59	13.4	15.8	9.2	19.5	
Apple	11.37	16.5	11.3	22.5	13.20	
Peach	12.04	15.4	15.3	18.6	6.0	
Pear					7.42	

WHEAT

Estimated reduction in yield of wheat due to scab (*Gibberella saubineti*),
leaf rust (*Puccinia triticina*), stem rust (*Puccinia graminis*),
and bunt (*Tilletia laevis* and *T. tritici*), 1923.

Estimated reduction in yield due to disease										
Production:										
State	1923		Scab		Leaf rust		Stem rust		Bunt	
	Bushels		Bushels		Bushels		Bushels		Bushels	
	(000	%	(000	%	(000	%	(000	%	(000	%
	omitted)		omitted)		omitted)		omitted)		omitted)	
Me.	156	-	-	-	-	-	-	-	-	-
Vt.	84	0	0	1	1	1	1	-	-	-
Mass.		0	0	-	-	1	+	t	+	+
Conn.		0	0	-	-	-	-	-	-	-
N. Y.	8,159	t	+	1	83	t	+	.03	3	3
N. J.	1,480	0.5	7	0.2	3	0.5	8	t	+	+
Pa.	24,338	2	526	1.5	395	t	+	t	+	+
Del.	1,908	0.1	2	0.2	4	-	-	0.1	2	2
Md.	10,426	1	112	1.5	169	t	+	1.5	169	169
Va.	11,145	t	+	1	118	0.2	24	1	118	118
W. Va.	2,964	1	31	1	31	t	+	t	+	+
N. C.	6,038	1	73	3	218	1	72	3	218	218
S. C.	1,925	-	-	2	42	-	-	-	-	-
Ga.	1,739	0	0	1	99	-	-	1	20	20
Ohio	42,783	0.5	252	4	2,015	2	1,008	0.1	50	50
Ind.	34,248	t	+	2	753	t	+	1	376	376
Ill.	62,506	2.2	1,601	3	2,183	1.5	1,091	4	2,911	2,911
Mich.	16,576	t	+	t	+	2	345	0.5	86	86
Wis.	1,970	t	+	t	+	1	20	t	+	+
Minn.	20,735	0.3	79	t	+	15	3,932	t	+	+
Iowa	14,352	4	624	1.5	234	1	156	0.5	78	78
Mo.	37,947	2	791	1	395	-	-	t	+	+
N. Dak.	58,660	1	761	1	762	12	9,142	t	+	+
S. Dak.	26,906	10	3,495	1	349	10	3,495	1	349	349
Nebr.	31,338	t	+	1	341	4	1,365	-	-	-
Kans.	83,804	0	0	1	913	1	913	t	+	+
Ky.	7,688	1	83	1	84	0	0	t	+	+
Tenn.	4,508	4	196	2	98	1	49	t	+	+
Ala.	200	t	+	5	11	t	+	-	-	-
Miss.	60	t	+	1	+	t	+	-	-	-
La.		0	0	*	-	*	-	0	0	0
Texas	16,370	t	+	1	174	2	348	0.5	87	87
Okla.	36,300	-	-	-	-	-	-	-	-	-
Ark.	770	1	9	4	37	1	7	3	28	28
Mont.	52,486	0	0	-	-	18	11,809	-	-	-
Wyo.	2,785	0	0	-	-	t	+	-	-	-
Calif.	18,000	0	0	1	203	10	2,033	0.5	102	102
N. Mex.	1,300	0	0	-	-	-	-	-	-	-
Ariz.	1,092	0	0	-	-	t	+	-	-	-
Utah	6,566	0	0	0.3	20	1.5	102	t	+	+
Nev.	507	0	0	-	-	1	5	-	-	-
Idaho	30,115	0	0	t	+	1	346	8	2,770	2,770
Wash.	61,743	0	0	t	+	t	+	6	3,941	3,941
Oregon	26,807	0	0	t	+	0	0	-	-	-
Colif.	16,157	0	0	t	+	t	+	-	-	-
U. S.	785,741	0.97	8,642	1.09	9,735	4.07	36,273	1.27	11,308	11,308

State	Estimated reduction in yield due to disease							
	Loore smut		Other diseases		Sum of traces and no data		All diseases	
	Bushels		Bushels		Bushels		Bushels	
	%	(000 omitted)	%	(000 omitted)	%	(000 omitted)	%	(000 omitted)
Me.	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	0	0	2	2
Mass.	t	+	-	-	1	+	2	+
Conn.	-	-	-	-	2.5	+	2.5	+
N. Y.	0.7	59	1.1	92	0	0	2.83	237
N. J.	1	15	0.8	12	-	-	3	45
Pa.	3	790	1	263	0	0	7.5	1,974
Del.	0.8	15	1.5	29	0	0	2.7	52
Md.	3	338	0.5	57	0	0	7.5	845
Va.	3	354	0.5	59	0	0	5.7	673
W. Va.	3	95	-	-	1	32	6	189
N. C.	5	364	4	291	0	0	17	1,236
S. C.	2	42	-	-	4	83	8	167
Ga.	3	59	3	59	0	0	12	237
Ohio	1.5	756	7	3,528	0	0	15.1	7,609
Ind.	3	1,129	-	-	3	1,129	9	3,387
Ill.	1.9	1,383	1.5	1,091	0	0	14.1	10,260
Mich.	1.5	259	-	-	0	0	4	690
Wis.	1	20	t	+	1	21	3	61
Minn.	0.4	105	5	1,310	0	0	20.7	5,426
Iowa	1	156	t	+	0	0	8	1,248
Mo.	1	395	-	-	0	0	4	1,581
N. Dak.	2	1,524	7	5,333	0	0	23	17,522
S. Dak.	t	+	1	349	0	0	23	8,037
Nebr.	t	+	-	-	3	1,023	8	2,729
Kans.	1.2	1,095	5	4,564	0	0	8.2	7,485
Ky.	1.4	118	5	420	0	0	8.4	705
Tenn.	t	+	1	49	0	0	8	392
Ala.	2	4	2	4	0	0	9	19
Miss.	1	1	3	2	0	0	5	3
La.	t	+	-	-	6	+	6	+
Texas	0.5	87	2	349	0	0	6	1,045
Okla.	-	-	-	-	7	2,732	7	2,732
Ark.	3	28	5	46	0	0	17	157
Mont.	-	-	-	-	2	1,312	20	13,121
Wyo.	-	-	-	-	2	56	2	56
Colo.	t	+	0	0	0	0	11.5	2,338
N. Mex.	-	-	-	-	-	-	-	-
Ariz.	t	+	-	-	-	-	+	+
Utah	1.2	81	-	-	-	-	3	203
Nev.	-	-	-	-	-	-	1	5
Idaho	2	692	2	692	0	0	13	4,500
Wash.	t	+	t	+	-	-	6	3,941
Oregon	-	-	-	-	10	2,978	10	2,978
Calif.	t	+	-	-	8	1,405	8	1,405
U. S.	1.12	9,964	2.09	18,599	1.21	10,771	11.82	105,292

RYE

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, 1923.

State	Production	Estimated reduction in yield due to disease											
		Smut		Ergot		Leaf rust		Stem rust		Other diseases		Sum of traces	
		Bushels:	%	Bushels:	%	Bushels:	%	Bushels:	%	Bushels:	%	Bushels:	%
		(000 o- mitted)		(000 o- mitted)		(000 o- mitted)		(000 o- mitted)		(000 o- mitted)		(000 o- mitted)	
Mass.	54	+	t	+	6	3	1	1	-	-	1	+	8
Conn.	90	0	t	+	1	1	1	1	-	-	1	+	3
N. Y.	945	1	t	+	1	10	0.1	1	1	9	0	0	2.2
N. J.	1,157	2	0.3	4	0.7	8	0.1	1	0.5	6	-	-	1.8
Pa.	3,655	-	-	-	-	-	-	-	-	-	2	74	2
Del.	86	-	-	-	0.2	+	-	-	1	1	0	0	1.2
Md.	269	+	-	-	1	3	t	+	t	+	1	2	2
Va.	504	+	t	+	1	5	-	-	3	16	-	-	4
W. Va.	100	+	t	+	t	+	t	+	t	+	2	2	2
N. C.	603	-	-	-	-	-	-	-	-	-	3	18	3
S. C.	74	-	-	-	0.5	+	-	-	2	2	1	+	3.5
Ga.	180	+	-	-	1	1	-	-	1	2	0	0	2
Ohio	1,302	-	0.5	8	3	49	2	33	15	246	0	0	20.5
Ind.	4,186	-	-	-	t	+	-	-	-	-	2	85	2
Ill.	3,450	1	t	+	1	35	t	+	0.5	18	0	0	2.5
Mich.	6,538	t	t	+	t	+	t	+	-	-	1	66	1
Wis.	5,062	t	0.3	16	t	+	0.1	5	t	+	1	51	1.4
Minn.	12,312	1	t	+	t	+	t	+	1	126	0.5	63	2.5
Iowa	923	t	3	+	t	+	t	+	-	-	1	9	4
Ko.	325	-	-	-	*	-	-	-	-	-	2	7	2
N. Dak.	10,046	t	0.5	51	t	+	0.5	51	t	+	0.5	53	1.5
S. Dak.	3,496	-	0.5	18	*	0	1	35	-	-	0.5	18	2

State	Production Bushels (000 omitted)	Estimated reduction in yield due to disease												All diseases Bushels % (000 c- mitted)
		Smut			Ergot			Leaf rust			Stem rust			Sum of traces and no data: Bushels % (000 o- mitted)
		Bushels: % (000 o- mitted)	Bushels: % (000 o- mitted)	Bushels: % (000 o- mitted)	Bushels: % (000 o- mitted)	Bushels: % (000 o- mitted)	Bushels: % (000 o- mitted)	Bushels: % (000 o- mitted)	Bushels: % (000 o- mitted)	Bushels: % (000 o- mitted)	Bushels: % (000 o- mitted)	Bushels: % (000 o- mitted)	Bushels: % (000 o- mitted)	
Nebr.	1,584	-	-	-	-	-	-	-	-	-	-	-	-	2
Kans.	348	0	0	0	0	0	0	0	0	0	0	0	0	32
Ky.	234	0	0	0	0	0	0	0	0	0	0	0	0	2
Tenn.	200	0	0	0	0	0	0	0	0	0	0	0	0	2
Ala.	12	0	0	0	0	0	0	0	0	0	0	0	0	7
Miss.	0	0	0	0	0	0	0	0	0	0	0	0	0	15
La.	0	0	0	0	0	0	0	0	0	0	0	0	0	+
Texas	204	0	0	0	0	0	0	0	0	0	0	0	0	+
Okla.	444	0	0	0	0	0	0	0	0	0	0	0	0	+
Ark.	9	0	0	0	0	0	0	0	0	0	0	0	0	2
Mont.	2,112	0	0	0	0	0	0	0	0	0	0	0	0	4
Wyo.	312	0	0	0	0	0	0	0	0	0	0	0	0	1
Colo.	876	0	0	0	0	0	0	0	0	0	0	0	0	21
N. Mex.	24	0	0	0	0	0	0	0	0	0	0	0	0	3
Utah	125	0	0	0	0	0	0	0	0	0	0	0	0	+
Nev.	266	0	0	0	0	0	0	0	0	0	0	0	0	1
Idaho	190	0	0	0	0	0	0	0	0	0	0	0	0	+
Wash.	555	0	0	0	0	0	0	0	0	0	0	0	0	2
Oregon	0	0	0	0	0	0	0	0	0	0	0	0	0	+
Calif.	0	0	0	0	0	0	0	0	0	0	0	0	0	5
U. S.	62,852	164	19	126	115	128	69	443	81	521	232	1497		

BARLEY

Estimated reduction in yield of barley due to stripe (Helminthosporium gramineum), loose smut (Ustilago nuda), and covered smut (Ustilago hordei), 1923.

State	Production :		Estimated reduction in yield due to disease							
	1923 :		Stripe :		Loose smut :		Covered smut :			
	Bushels :		Bushels:		Bushels :		Bushels :		Bushels	
	(000 :	% :	(000 o- :	% :	(000 o- :	% :	(000 o- :	% :	(000 o-	% :
	omitted)		mited):		mited)		mited)		mited)	
Me.	90	-	-	-	-	-	-	-	-	-
N. H.	26	-	-	-	-	-	-	-	-	-
Vt.	261	-	-	1	2	1	3			
Mass.		-	-	2	+	-	-			
Conn.		-	-	1	+	1	+			
N. Y.	5,092	t	+	2	107	0.7	37			
Pa.	269	-	-	-	-	1.5	4			
Del.		t	+	t	+	1.5	+			
Md.	132	t	+	2	3	2	3			
Va.	270	t	+	4	11	2	6			
Ga.		-	-	3	+	1	+			
Ohio	1,998	-	-	0.5	10	-	-			
Ind.	690	1	7	5	37	1	8			
Ill.	6,612	3	210	2.5	174	0	0			
Mich.	3,600	-	-	-	-	-	-			
Wis.	13,252	t	+	-	-	t	+			
Minn.	24,050	1	263	1	263	0.2	53			
Iowa	4,572	5	279	1	55	1	56			
Mo.	162	-	-	-	-	-	-			
N. Dak.	23,818	1	256	1	256	1	256			
S. Dak.	20,025	1	215	1	215	t	+			
Nebr.	9,492	t	+	-	-	-	-			
Kans.	21,467	0	0	3	685	2	457			
Ky.	189	-	-	2.5	5	6	13			
Tenn.	391	-	-	1	4	1	4			
Miss.		-	-	2	+	1	+			
La.		t	+	-	-	-	-			
Texas	2,592	t	+	0.5	13	0.5	14			
Okla.	2,838	-	-	-	-	-	-			
Mont.	2,474	-	-	-	-	-	-			
Wyo.	868	-	-	-	-	-	-			
Colo.	6,409	2	139	0.5	35	0.5	35			
N. Mex.	209	-	-	-	-	-	-			
Ariz.	1,260	-	-	-	-	-	-			
Utah	893	-	-	-	-	-	-			
Nev.	152	-	-	-	-	-	-			
Idaho	3,999	t	+	t	+	1	41			
Wash.	3,884	t	+	0	0	t	+			
Oregon	3,080	-	-	-	-	-	-			
Calif.	33,069	-	-	-	-	-	-			
U. S.	198,185	.65	1,369	.89	1,875	.47	990			

ated reduction in yield of barley due to leaf rust (Puccinia simplex), stem rust (Puccinia graminis), and other diseases, 1923.

[illegible]

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, 1923.

State	Estimated reduction in yield due to disease									
	Production: 1923	Loose and covered smut	Stem rust	Crown rust	Other diseases	Sum of traces: and no data	All diseases			
	Bushels: (000)	Bushels: (000)	Bushels: (000)	Bushels: (000)	Bushels: (000)	Bushels: (000)	Bushels: (000)	%	Bushels: (000)	%
	omitted)	%	omitted)	%	omitted)	%	omitted)	%	omitted)	%
Me.	4,625	-	-	-	-	-	-	-	-	-
N. H.	675	-	-	-	-	-	-	-	-	-
Vt.	3,080	3	100	49	3	100	0	7.5	249	7.5
Mass.	315	8	28	7	2	7	0	12	42	12
R. I.	32	-	-	-	-	-	5	5	1	5
Conn.	290	2	6	3	1	3	0	4	12	4
N. Y.	32,747	4	1,393	+	2	697	+	6.02	2,097	6.02
N. J.	1,632	2.5	42	3	0.8	14	9	4	68	4
Pa.	33,930	3	1,082	-	1	361	722	6	2,165	6
Del.	182	1.5	3	-	0.2	+	2	2.7	5	2.7
Md.	1,753	3	55	+	t	+	+	4	73	4
Va.	3,586	5	193	-	1	38	38	7	269	7
W. Va.	4,704	1	48	+	t	+	+	2	96	2
N. C.	5,082	1.8	94	-	-	-	-	2.8	146	2.8
S. C.	10,728	5	570	-	-	-	-	6	684	6
Ga.	9,378	5	515	-	3	309	103	9	927	9
Fla.	396	t	+	-	-	-	-	+	+	+
Ohio	52,302	t	+	0.5	278	278	2,781	6	3,337	6
Ind.	48,692	3	1,554	-	2	1,036	-	6	3,108	6
Ill.	135,100	5.5	8,120	t	2.5	3,691	738	8.5	12,549	8.5
Mich.	48,896	2	1,063	5	2,657	531	-	8	4,251	8
Wis.	92,166	3	2,880	0.5	480	480	+	4	3,840	4
Minn.	153,254	5	8,204	1	1,641	164	820	6.6	10,829	6.6

Estimated reduction in yield due to disease													
Production:													
State	1923 Bushels (000) omitted	Loose and covered snuts:		Stem rust:		Crown rust:		Other diseases:		Sum of traces:		All diseases	
		Bushels: (000) omitted	%	Bushels: (000) omitted	%	Bushels: (000) omitted	%	Bushels: (000) omitted	%	Bushels: (000) omitted	%	Bushels: (000) omitted	%
Iowa	203,004	1	2,136	1	2,137	1	2,137	2	4,274	0	0	5	10,684
Mo.	34,500	-	-	-	-	-	-	-	-	3	1,067	3	1,067
N. Dak.	54,924	2	1,277	5	3,193	5	3,193	2	1,278	0	0	14	8,941
S. Dak.	78,336	1	833	4	3,334	1	833	t	+	0	0	6	5,000
Nebr.	81,048	-	-	t	+	t	+	t	+	2	1,654	2	1,654
Kans.	34,922	4	1,486	t	+	t	+	2	743	0	0	6	2,229
Ky.	4,725	10	525	0	0	t	+	-	-	0	0	10	525
Tenn.	4,305	0.5	22	-	-	-	-	1.5	65	0	0	2	87
Ala.	4,792	3	152	t	+	3	153	-	-	0	0	6	305
Miss.	2,280	3	77	0	0	6	153	2	51	0	0	11	281
La.	1,232	t	+	0	0	20	328	5	82	0	0	25	410
Texas	47,040	2	1,012	1	506	2	1,011	2	1,011	0	0	7	3,540
Okla.	24,000	-	-	-	-	-	-	-	-	3	742	3	742
Ark.	6,187	8	660	2	165	15	1,237	-	-	0	0	25	2,062
Mont.	22,209	3	686	0	0	0	0	-	-	0	0	3	686
Wyo.	5,950	-	-	-	-	-	-	-	-	2	121	2	121
Colo.	6,336	t	+	2	129	0	0	0	0	0	0	2	129
N. Mex.	1,160	-	-	-	-	-	-	-	-	2	23	2	23
Ariz.	570	2	11	t	+	-	-	-	-	0	0	2	11
Utah	3,062	4.5	144	t	+	-	-	-	-	0	0	4.5	144
Nev.	106	-	-	-	-	-	-	-	-	2	2	2	2
Idaho	7,820	3	247	t	+	-	-	2	164	0	0	5	411
Wash.	11,970	0.5	60	t	+	0	0	t	+	t	+	0.5	60
Oregon	10,530	-	-	-	-	-	-	-	-	-	-	-	-
Calif.	5,265	-	-	-	-	-	-	-	-	-	-	-	-
U. S.	1,299,823	2.55	35,278	1.05	14,582	1.21	16,754	.93	12,881	.32	4,367	6.06	83,862

Estimated reduction in yield of corn due to smut (*Ustilago zeae*), leaf rust (*Puccinia sorghi*), and brown spot (*Physoderma zeae-maydis*), 1923.

State	Production :		Estimated reduction in yield due to disease					
	1923		Smut	Leaf rust	Brown spot			
	Bushels		Bushels		Bushels		Bushels	
	(000	%	(000	%	(000	%	(000	
	omitted)		omitted)		omitted)		omitted)	
Me.	684	-	-	-	0		0	
N. H.	1,092	-	-	-	0		0	
Vt.	3,276	1	33	t	0		0	
Mass.	2,537	0.5	13	t	0		0	
R. I.	456	-	-	-	0		0	
Conn.	3,116	3	98	-	0		0	
N. Y.	24,559	2	522	t	0		0	
N. J.	9,440	0.5	50	-	-		-	
Pa.	61,640	3	2,101	t	0		0	
Del.	6,057	1	64	0	0		0	
Md.	25,231	1.5	427	t	0		0	
Va.	53,563	2	1,164	t	0		0	
W. Va.	20,128	1	208	t	0		0	
N. C.	58,568	2	1,331	1	665	2	1,331	
S. C.	32,670	1	340	-	-	1	340	
Ga.	49,215	2.5	1,374	0	0	2	1,100	
Fla.	10,250	-	-	-	-		-	
Ohio	159,859	3	5,449	t	+	t	+	
Ind.	192,616	0.4	819	-	-	t	+	
Ill.	337,312	3	12,728	0	0	0.5	2,121	
Mich.	58,167	1	587	t	+	0	0	
Wis.	83,361	0.5	441	0	0	0	0	
Minn.	154,692	0.5	781	0	0	0	0	
Iowa	430,240	3	15,551	-	-	0	0	
Mo.	196,860	2	4,280	-	-	-	-	
N. Dak.	28,207	5	1,484	t	+	0	0	
S. Dak.	145,176	2	3,089	t	+	0	0	
Nebr.	272,052	-	-	-	-	-	-	
Kans.	122,149	4	5,817	t	+	0	0	
Ky.	87,866	0.5	480	0	0	-	-	
Tenn.	73,941	0.5	389	t	+	t	+	
Ala.	48,988	2	1,089	t	+	1	544	
Miss.	33,742	t	+	t	+	0.5	180	
La.	24,702	t	+	1	317	1	317	
Texas	96,440	t	+	t	+	-	-	
Okla.	37,536	-	-	-	-	-	-	
Ark.	39,039	3	1,346	0	0	1	449	
Mont.	9,490	-	-	-	-	0	0	
Wyo.	4,050	-	-	-	-	0	0	
Colo.	37,250	1.5	567	0	0	0	0	
N. Mex.	3,624	3	112	-	-	0	0	
Ariz.	990	t	+	-	-	0	0	
Utah	772	1	7	-	-	0	0	
Nev.	23	-	-	-	-	0	0	
Idaho	3,066	t	+	-	-	0	0	
Wash.	2,738	t	+	0	0	0	0	
Oregon	2,485	-	-	-	-	0	0	
Calif.	4,480	-	-	-	-	0	0	
U. S.	3,054,395	1.8	62,741	t	982	0.2	6,382	

Estimated reduction in yield due to disease									
State	Root rots		Ear rots		Other diseases	Sum of traces and no data		All diseases	
	Bushels:	Bushels:	Bushels:	Bushels:	Bushels:	Bushels:	Bushels:	Bushels:	
	%	(000	%	(000	%	(000	%	(000	
	:omitted):	:omitted):	:omitted):	:omitted):	:omitted):	:omitted):	:omitted):		
Me.	-	-	-	-	-	-	-	-	
N. H.	-	-	-	-	-	-	-	-	
Vt.	-	-	-	-	-	-	-	-	
Mass.	2	53	t	+	-	1	26	3.5	
R. I.	-	-	-	-	-	5	24	5	
Conn.	1	33	1	33	t	+	0	5	
N. Y.	1	261	3	784	t	+	0	6	
N. J.	4	404	2	202	t	+	0	6.5	
Pa.	4	2,802	4	2,802	1	700	0	12	
Del.	3	193	1.5	97	0.5	32	0	6	
Md.	7	1,996	3	855	t	+	0	11.5	
Va.	2	1,164	3	1,747	1	582	0	8	
W. Va.	1	207	1	207	t	+	0	3	
N. C.	4	2,662	3	1,997	-	-	0	12	
S. C.	-	-	-	-	2	681	0	4	
Ga.	2	1,100	2	1,100	2	1,100	0	10.5	
Fla.	-	-	-	-	-	-	10	1,138	
Ohio	1	1,817	5	9,083	3	5,449	0	12	
Ind.	5	10,234	0.5	1,023	-	-	0	5.9	
Ill.	13	55,158	2	8,486	2	8,486	0	20.5	
Mich.	t	+	t	+	0	0	0	1	
Wis.	t	+	5	4,410	-	-	0	5.5	
Minn.	0.1	156	0.2	313	0.2	313	0	1	
Iowa	t	+	9	46,652	3	15,551	2	10,367	
Mo.	t	+	3	6,419	-	-	3	6,419	
N. Dak.	t	+	t	+	t	+	0	5	
S. Dak.	3	4,633	-	-	-	-	1	1,544	
Nebr.	-	-	-	-	-	-	8	23,656	
Kans.	4	5,817	5	7,270	3	4,362	0	16	
Ky.	-	-	6	5,762	-	-	2	1,920	
Tenn.	3	2,335	1	778	0.5	389	0	5	
Ala.	-	-	5	2,722	-	-	2	1,088	
Miss.	4	1,443	1	361	-	-	1	361	
La.	5	1,583	15	4,750	-	-	0	22	
Texas	-	-	2	2,052	2	2,052	2	2,052	
Okla.	-	-	-	-	-	-	4	1,564	
Ark.	0	0	4	1,795	5	2,243	0	13	
Mont.	-	-	-	-	-	-	2	193	
Wyo.	-	-	-	-	-	-	2	82	
Colo.	0	0	0	0	0	0	0	1.5	
N. Mex.	-	-	-	-	-	-	0	3	
Ariz.	-	-	-	-	-	-	2	20	
Utah	-	-	-	-	-	-	0	1	
Nev.	0	0	0	0	0	-	1	+	
Idaho	0	0	0	0	-	-	1	30	
Wash.	0	0	0	0	t	+	t	+	
Oregon	0	0	0	0	-	-	1	25	
Calif.	-	-	-	-	-	-	-	-	
U. S.	2.7	94,051	3.3	111,700	1.2	41,940	1.5	50,509	

State	Estimated reduction in yield due to disease											
	Production: 1923 Bushels (000 o- mitted):	Mosaic :Bushels: %:(000 o- mitted):	Leaf roll :Bushels: %:(000 o- mitted):	Late blight :Bushels: %:(000 o- mitted):	Rhizoctonia :Bushels: %:(000 o- mitted):	Black leg :Bushels: %:(000 o- mitted):	Fusarium wilt :Bushels: %:(000 o- mitted):					
Iowa	6,804 : 5	567 : -	- : 0	0 : 4	454 : 1	113 : -	-					
Mo.	9,300 : 5	489 : -	- : 0	0 : -	- : -	- : -	-					
N. Dak.	13,114 : t	+ : t	+ : 0	0 : 3	458 : 4	610 : 1	152					
S. Dak.	7,744 : -	- : -	- : 0	0 : 1	81 : -	- : t	+					
Nebr.	8,880 : 2	201 : -	- : 0	0 : t	+ : -	- : -	-					
Kans.	5,160 : 0.1	6 : -	- : 0	0 : 12	761 : 3	190 : -	-					
Ky.	4,930 : 10	795 : 15	1,193 : 0	0 : 5	397 : 0	0 : 2	159					
Tenn.	2,880 : 10	341 : 0.5	17 : 0	0 : 0.1	4 : 0	0 : -	-					
Ala.	3,520 : 10	407 : -	- : t	+ : -	- : -	- : 0.5	20					
Miss.	1,110 : 5	66 : -	- : 0	0 : 0	0 : 0	0 : 0.5	7					
La.	1,638 : 15	308 : t	+ : 0	0 : 1	20 : 0	0 : 0	0					
Texas	1,925 : 1	21 : -	- : 0	0 : 1	22 : -	- : 3	64					
Okla.	2,772 : -	- : -	- : 0	0 : -	- : -	- : -	-					
Ark.	1,947 : 10	237 : -	- : 0	0 : 0	0 : t	+ : 2	48					
Mont.	3,960 : -	- : -	- : 0	0 : 0	0 : -	- : -	-					
Wyo.	1,710 : -	- : -	- : 0	0 : 0	0 : -	- : -	-					
Colo.	13,530 : -	- : -	- : 0	0 : t	+ : t	+ : -	-					
N. Mex.	150 : -	- : 2	4 : 0	0 : t	+ : -	- : 10	19					
Ariz.	240 : -	- : -	- : 0	0 : 1	2 : -	- : 5	13					
Utah	2,688 : 10	349 : -	- : 0	0 : 2.5	87 : 1.5	52 : t	140					
Nev.	870 : 8	84 : -	- : 0	0 : 6	63 : -	- : 3	31					
Idaho	11,725 : 10	1,536 : 3	461 : 0	0 : 5	768 : 0.5	77 : 2	307					
Wash.	8,060 : 10	959 : 2	192 : t	+ : 2	192 : t	- : t	+					
Oregon	4,180 : -	- : -	- : t	+ : -	- : -	- : -	-					
Calif.	9,880 : 12	1,624 : -	- : t	+ : 6	812 : -	- : 1	135					
U. S.	414,472 : 3.4	17,020 : 2.8	13,674 : 1	623 : 2.6	12,976 : 5	2,698 : 8	3,851					

POTATO (continued)

Estimated reduction in yield of potato due to tipburn and hopperburn, early blight (Alternaria solani), and other diseases, 1923.

State	Estimated reduction in yield due to disease									
	Production:	Tipburn and	Early blight	Other diseases	and no data	All diseases				
	Bushels	hopperburn	Bushels	Bushels	Bushels	Bushels	%	%	%	Bushels
	(000	Bushels	(000	(000	(000	(000				(000
	omitted)	omitted)	omitted)	omitted)	omitted)	omitted)				omitted)
Me.	31,992	-	-	-	-	-	-	-	-	-
N. H.	2,405	-	-	+	-	-	1	18	29	527
Vt.	4,320	-	0.5	25	-	-	1	13.5	49	674
Mass.	4,550	-	-	-	-	-	1	16.5	55	899
R. I.	330	-	-	-	-	-	-	5	-	17
Conn.	3,565	-	t	+	10	412	1	13.5	41	556
N. Y.	39,729	5	0	0	5	2,759	0	28	0	15,450
N. J.	7,600	-	t	+	-	-	5	16.5	455	1,501
Pa.	26,145	3	t	+	3	1,053	0	25.5	0	8,948
Del.	800	1	0.5	4	1.5	13	2	8	17	69
Md.	3,520	1.5	0.5	23	2	94	1	17	47	802
Va.	14,136	1	1	163	1	164	0	13.5	0	2,206
W. Va.	5,880	10	t	+	1	71	6	17	425	1,204
N. C.	3,956	4	5	316	5	316	0	37.5	0	2,373
S. C.	3,136	t	10	392	3	118	7	20	274	784
Ga.	1,540	-	1	16	-	-	-	6	-	98
Fla.	1,748	-	1	20	2	39	1	11.5	20	227
Ohio	12,348	6	t	+	1	158	1	22	158	3,482
Ind.	7,875	2	t	+	-	-	3	11	265	973
Ill.	9,568	0.5	1.5	149	t	+	2	4	199	398
Mich.	35,796	t	t	+	2	842	1	15	421	6,316
Wis.	26,112	2	t	+	1	281	1	7	281	1,965
Minn.	38,304	5	t	+	1	435	1	12	435	5,223

State	Estimated reduction in yield due to disease									
	Production: 1923 Bushels (000 omitted)	Tipburn and hopperburn Bushels (000 omitted)	Early blight Bushels (000 omitted)	Other diseases Bushels (000 omitted)	Sum of traces and no data Bushels (000 omitted)	All diseases Bushels (000 omitted)				
Iowa	6,804	1,361	t	15	1,701	340	40	40	40	4,536
Mo.	9,300	-	t	-	-	-	5	5	5	489
N. Dak.	13,114	+	t	5	762	152	14	14	14	2,134
S. Dak.	7,744	245	t	-	-	81	5	5	5	407
Nebr.	8,880	-	-	-	-	1,009	12	12	12	1,210
Kans.	5,160	127	t	0.5	32	63	18.6	18.6	18.6	1,179
Ky.	4,930	159	2	-	159	159	38	38	38	3,021
Tenn.	2,830	68	0.5	0.5	17	68	15.6	15.6	15.6	532
Ala.	3,520	-	t	2	81	41	13.5	13.5	13.5	549
Miss.	1,110	-	-	10	133	13	16.5	16.5	16.5	219
La.	1,633	20	1	-	-	41	20	20	20	409
Texas	1,925	21	1	3	64	0	10	10	10	213
Okla.	2,772	+	-	-	-	241	8	8	8	241
Ark.	1,947	71	2	0	0	23	18	18	18	427
Mont.	3,960	-	-	-	-	-	-	-	-	-
Wyo.	1,710	-	-	-	-	-	-	-	-	-
Colo.	13,530	+	t	-	-	-	t	t	t	42
N. Mex.	150	19	-	-	-	-	22	22	22	15
Ariz.	240	-	t	-	-	-	6	6	6	802
Utah	2,688	140	1	-	-	-	23	23	23	178
Nev.	870	-	-	-	-	-	17	17	17	3,641
Idaho	11,725	-	0.2	3	461	0	23.7	23.7	23.7	1,535
Wash.	8,060	+	0	2	192	+	16	16	16	+
Oregon	4,180	-	-	-	-	-	t	t	t	+
Calif.	9,880	-	-	8	1,083	-	27	27	27	3,654
U. S.	414,472	11,162	.3	2.3	1,438	11,281	1.1	1.1	1.1	80,125

SWEET POTATO

Estimated reduction in yield of sweet potato due to stem rot (Fusarium hyperoxysporum and F. batatatis), foot rot (Plenodomus destruens), and black rot (Sphaeronema fimbriatum), 1923.

State	Production :		Estimated reduction in yield due to disease					
	1923 :							
	Bushels :		Stem rot :	Foot rot :	Black rot			
	(000 :		Bushels :	Bushels :	Bushels :	Bushels		
	omitted) :	% :	(000 :	% :	(000 :	% :	(000	
			omitted): :	omitted): :	omitted): :	omitted)		
N. J.	2,196	30	1,080	-	-	2	72	
Pa.	260	-	-	-	-	-	-	
Del.	1,008	8	92	0	0	0.5	5	
Md.	1,170	4	56	-	-	1	13	
Va.	5,280	5	318	t	+	3	191	
W. Va.	390	-	-	0	0	-	-	
N. C.	10,500	1	120	2	241	3	362	
S. C.	9,118	-	-	-	-	5	501	
Ga.	11,508	t	+	0	0	1	142	
Fla.	2,940	t	+	-	-	t	+	
Ohio	336	t	+	-	-	-	-	
Ind.	354	1	3	0	0	1	3	
Ill.	880	t	+	0	0	0.5	4	
Iowa	280	7	24	-	-	9	31	
Mo.	1,512	5	80	-	-	t	+	
Kans.	321	15	59	t	+	1.5	6	
Ky.	2,060	t	+	0	0	15	686	
Tenn.	3,850	0.5	21	0	0	3	129	
Ala.	11,752	1	136	-	-	2	274	
Miss.	9,898	t	+	2	235	2	235	
La.	7,020	t	+	0	0	1	88	
Texas	6,880	-	-	0	0	10	1,027	
Okla.	2,700	-	-	-	-	-	-	
Ark.	3,800	2	172	0	0	2	172	
N. Mex.	134	-	-	-	-	2	2	
Ariz.	340	-	-	-	-	-	-	
Calif.	690	-	-	-	-	-	-	
U. S.	97,177	1.8	2,167	0.4	476	3.2	3,943	

SWEET POTATO (continued)

Estimated reduction in yield of sweet potato due to storage rots, pox (*Cystospora batata*), and other diseases, 1923.

State	Estimated reduction in yield due to disease									
	Storage rots:		Pox:		Other diseases:		Sum of traces and no data:		All diseases:	
	Bushels:	Bushels:	Bushels:	Bushels:	Bushels:	Bushels:	Bushels:	Bushels:	Bushels:	Bushels:
	% (000 omitted):	% (000 omitted):	% (000 omitted):	% (000 omitted):	% (000 omitted):	% (000 omitted):	% (000 omitted):	% (000 omitted):	% (000 omitted):	% (000 omitted):
N. J.	-	5	180	2	72	0	0	39	1,404	
Pa.	-	-	-	-	-	-	-	-	-	-
Del.	1	0.5	15	1.5	17	0	0	11.5	130	
Md.	-	0.5	7	-	-	10	138	15.5	214	
Va.	8	1	63	t	+	0	0	17	1,081	
W. Va.	-	-	-	-	-	-	-	-	-	-
N. C.	5	-	-	2	241	0	0	13	1,568	
S. C.	2	-	-	1	100	1	100	9	901	
Ga.	10	-	-	-	-	8	1,136	19	2,699	
Fla.	1	-	-	-	-	-	-	1	29	
Ohio	-	0	0	-	-	2	6	2	6	
Ind.	1	0	0	0	0	0	0	3	10	
Ill.	0	0	0	0	0	0	0	0.5	4	
Iowa	-	-	-	-	-	3	10	19	65	
Mo.	-	-	-	-	-	8	139	13	225	
Kans.	3	t	+	t	+	0	0	19.5	77	
Ky.	40	-	-	-	-	0	0	55	2,517	
Tenn.	5	-	-	0.5	21	1.5	64	10.5	451	
Ala.	10	-	-	1	136	0	0	14	1,913	
Miss.	10	-	-	2	236	0	0	16	1,885	
La.	15	t	+	4	351	0	0	20	1,755	
Texas	20	1	102	2	205	0	0	33	3,388	
Okla.	-	-	-	-	-	15	476	15	476	
Ark.	25	2	172	25	2,160	0	0	56	4,836	
N. Mex.	-	-	-	-	-	-	-	2	2	
Ariz.	-	-	-	-	-	-	-	-	-	
Calif.	-	-	-	-	-	-	-	-	-	
U. S.	10.5	0.4	529	2.9	3,539	1.7	2,069	20.9	25,636	

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*), and other diseases, *BACTERIUM* 1923. (Production figures not available.)

State	Estimated percentage reduction in yield due to disease							Sum of	All
	Blight	Fusarium:	Bacterial:	Early	Other	traces &	no data		
		wilt	wilt	blight	diseases				diseases
Me.	t	-	0	-	-	-	-	+	
N. H.	t	-	0	-	-	1	1		
Vt.	0.5	-	0	0.5	-	0	1		
Mass.	t	-	0	t	-	1	1		
R. I.	t	-	0	-	-	-	+		
Conn.	t	-	0	-	6	2	8		
N. Y.	0.5	t	0	5	-	6	11.5		
N. J.	-	3	0	t	5	2	10		
Pa.	-	t	0	2	6	2	10		
Del.	25	1	-	t	1	0	27		
Md.	15	5	-	-	-	2	22		
Va.	20	2	t	2	5	0	29		
W. Va.	10	t	t	10	3	1	24		
N. C.	3	5	3	3	15	0	29		
S. C.	30	t	-	-	10	2	42		
Fla.	t	t	-	-	-	-	+		
Ohio	t	12	0	t	5	1	18		
Ind.	6	4	0	0.1	1.1	0	11.2		
Ill.	0.5	12	0	4	1	0	17.5		
Mich.	10	t	0	0	1	0	11		
Wis.	1	t	0	t	1	1	3		
Minn.	1	t	0	t	1	1	3		
Iowa	t	4	0	t	1	1	6		
Mo.	t	-	-	t	5	1	6		
N. Dak.	t	t	0	t	-	2	2		
S. Dak.	-	-	0	-	1	1	2		
Kans.	1	5	0	-	2	1	9		
Ky.	12	5	0	t	20	0	37		
Tenn.	5	5	-	1	3	2	16		
Ala.	10	8	-	1	8	0	27		
Miss.	0	10	t	5	12	0	27		
La.	t	20	5	5	5	0	35		
Texas	4	4	-	1	3	0	12		
Okla.	-	-	-	t	-	-	+		
Ark.	1	25	0	-	1	0	27		
Colo.	t	0	0	0	-	2	2		
N. Mex.	3	5	0	-	2	0	10		
Utah	-	2	0	-	-	-	2		
Nev.	-	-	0	-	15	0	15		
Idaho	-	-	0	-	12	0	12		
Wash.	0	0	0	0	10	0	10		

Estimated reduction in yield of cotton due to anthracnose (*Colletotrichum gossypii*), angular leaf spot (*Bacterium malvacearum*), wilt (*Fusarium vasinfectum*), root knot (*Heterodera radicicola*), and other diseases, 1923.

State	Production: 1923 Bales (000 omitted)	Estimated reduction in yield due to disease										All diseases
		Anthracnose: Bales :(000 o- :mitted):	Angular leaf spot: Bales :(000 o- :mitted):	Wilt Bales :(000 o- :mitted):	Root knot Bales :(000 o- :mitted):	Other diseases :(000 o- :mitted):	Sum of traces and no data: :(000 o- :mitted):	Bales :(000 o- :mitted):				
Va.	50	1	t	1	+	t	+	1	1	+	4	2
N. C.	1,020	36	1	3	36	2	23	5	0	0	14	166
S. C.	795	9	5	2	18	-	-	4	1	9	13	118
Ga.	590	1	2	3	20	-	-	-	8	55	14	96
Fla.	12	1	2	3	+	-	-	-	6	1	12	1
Mo.	115	-	*	-	-	-	-	-	-	-	-	-
Tenn.	220	5	2	1	2	t	+	2	0	0	10	24
Ala.	600	5	1	3	20	t	+	1	0	0	10	67
Miss.	615	4	t	3	21	t	+	5	1	7	13	91
La.	365	7	1	2	8	-	-	2	1	4	13	54
Texas	4,290	1	8	2	117	1	59	15	0	0	27	1,587
Okla.	620	1	5	3	21	-	-	-	4	29	13	93
Ark.	620	1	5	5	38	2	15	5	0	0	18	136
Ariz.	83	0	*	-	-	-	-	-	5	4	5	4
Calif.	49	0	-	-	-	-	-	-	-	-	-	-
Other states	37	-	-	-	-	-	-	-	-	-	-	-
U. S.	10,081	1.8	5.0	2.4	301	0.8	97	8.6	1,071	0.9	109	2,439

DRY BEAN

Estimated reduction in yield of dry beans due to anthracnose (*Colletotrichum lindemuthianum*), bacterial blight (*Bacterium phaseoli*), mosaic, root rots (*Fusarium spp.*), and other diseases, 1923.

State	Estimated reduction in yield due to disease									
	Production: 1923	Anthracnose	Bacterial blight	Mosaic	Root rots	Other	Sum of traces			
	Bushels (000 omitted)	Bushels: :(000 o- :mitted):	Bushels: :(000 o- :mitted):	Bushels: :(000 o- :mitted):	Bushels: :(000 o- :mitted):	Bushels: :(000 o- :mitted):	Bushels: :(000 o- :mitted):	Bushels: :(000 o- :mitted):	Bushels: :(000 o- :mitted):	All diseases and no data : Bushels : % : (000 o- :mitted):
N. Y.	1,690	t	122	3	7	143	1	20	0	0 : 17 : 346
Mich.	6,532	5	768	t	-	-	t	+	0	0 : 15 : 1,152
Wis.	90	t	1	t	t	+	t	+	1	1 : 2 : 2
Colo.	1,360	t	+	-	-	-	-	-	-	- : t : +
N. Mex.	345	2	4	t	1	4	10	40	0	0 : 14 : 56
Ariz.	39	0	-	-	-	-	-	-	-	- : - : -
Idaho	990	-	-	5	-	-	1	10	-	- : 6 : 63
Calif.	4,694	0	-	-	-	-	3	145	-	- : 3 : 145
U. S.	15,740	2.2	895	0.7	0.8	147	1.2	215	t	1 : 10 : 1,764

BEAN

Estimated reduction in yield of beans due to anthracnose (Colletotrichum lindemuthianum), bacterial blight (Bacterium phaseoli), mosaic, root rots (Fusarium spp.), and other diseases, 1923, in states other than those for which production figures are available. (See page 337)

State	Estimated reduction in yield due to disease								All
	Anthrac-	Bacterial	Mosaic	Root rots	Other	traces &	Sum of		
	nose	blight			diseases	no data			
	%	%	%	%	%	%			
N. H.	t	-	-	-	-	-	4	4	
Vt.	2	1	1	-	-	-	1	5	
Mass.	2	t	t	2	-	-	1	5	
R. I.	-	-	t	-	-	-	5	5	
Conn.	0.5	-	0.5	-	-	-	4	5	
N. J.	-	-	-	-	-	-	8	3	
Pa.	2	4	1	2	t	-	0	0	
Del.	1	0.5	-	-	0.5	-	1	3	
Md.	1	1.5	t	t	-	-	1	5.5	
Va.	2	8	t	7	1	-	0	18	
W. Va.	4	t	t	t	1	-	1	6	
N. C.	-	-	-	-	-	-	5	5	
S. C.	-	2	-	2	3	-	0	7	
Fla.	t	-	t	-	2	-	3	5	
Ohio	3	1	-	-	-	-	2	6	
Ind.	1	-	4	t	-	-	1	6	
Ill.	0	t	0	0	t	-	1	1	
Minn.	t	1	1	t	t	-	1	3	
Iowa	t	-	5	-	-	-	1	6	
Mo.	t	-	-	-	-	-	4	4	
N. Dak.	t	-	-	-	-	-	t	+	
S. Dak.	t	-	-	-	-	-	t	+	
Ky.	15	5	-	10	-	-	0	30	
Tenn.	2	1	1	1.5	0.5	-	-	6	
Ala.	4	3	t	-	1	-	0	8	
Miss.	2	-	2	0.5	2	-	0	6.5	
La.	1	3	1	5	2	-	0	12	
Texas	0	1	t	2	6	-	0	9	
Okla.	0	-	t	-	-	-	3	3	
Ark.	2	0	2	0	0	-	0	4	
Utah	-	-	3	-	-	-	-	3	
Wash.	0	0	2	t	2	-	0	4	

Estimated reduction in yield of apple due to bitter rot (*Glomerella cin-
gulata*), black rot (*Physalospora cydoniae*), blotch (*Phyllosticta
solitaria*), and cedar rust (*Gymnosporangium*), 1923.

State	Estimated reduction in yield due to disease									
	Production:	Bitter rot	Black rot	Blotch	Cedar rust					
	1923	Bushels:	Bushels:	Bushels:	Bushels:					
	Bushels	% :	(000	% :	(000	% :	(000	% :	(000	Bushels
	(000	omitted):	omitted):	omitted):	omitted):	omitted):	omitted):	omitted):	omitted):	(000
	omitted)	:	:	:	:	:	:	:	:	
Me.	2,300	: 0 :	0 :	- :	- :	0 :	0 :	- :	- :	
N. H.	800	: 0 :	0 :	t :	+	0 :	0 :	t :	+	
Vt.	592	: 0 :	0 :	1 :	6 :	0 :	0 :	- :	- :	
Mass.	3,015	: t :	+	0.5:	16 :	0 :	0 :	t :	+	
R. I.	450	: - :	- :	0.5:	2 :	0 :	0 :	t :	+	
Conn.	1,700	: - :	- :	1 :	18 :	0 :	0 :	0.5:	9	
N. Y.	24,000	: t :	+	1 :	289 :	0 :	0 :	1 :	289	
N. J.	2,203	: 0.5:	12 :	0.5:	12 :	0.5:	12 :	t :	+	
Pa.	10,855	: t :	+	t :	+	0.5:	60 :	t :	+	
Del.	1,200	: 1.5:	24 :	1 :	16 :	t :	+	t :	+	
Md.	2,300	: 1 :	27 :	5 :	139 :	1 :	28 :	0.5:	14	
Va.	9,800	: 0.5:	61 :	1 :	122 :	0.5:	62 :	2 :	245	
W. Va.	8,320	: 0.5:	50 :	2 :	202 :	1 :	101 :	2 :	202	
N. C.	2,700	: 5 :	193 :	5 :	193 :	3 :	116 :	2 :	77	
S. C.	274	: 5 :	16 :	3 :	10 :	1 :	3 :	1 :	3	
Ga.	864	: 5 :	48 :	- :	- :	0.5:	5 :	0.5:	5	
Ohio	12,395	: 1 :	159 :	5 :	798 :	5 :	798 :	0.3:	48	
Ind.	5,035	: 1 :	56 :	2 :	112 :	2 :	112 :	t :	+	
Ill.	7,370	: 1 :	87 :	1 :	86 :	5.5:	477 :	1 :	87	
Mich.	13,159	: 0 :	0 :	t :	+	0 :	0 :	0 :	0	
Wis.	2,340	: 0 :	0 :	0 :	0 :	0 :	0 :	t :	+	
Minn.	1,520	: 0 :	0 :	t :	+	0 :	0 :	0.5:	9	
Iowa	3,750	: - :	- :	3 :	139 :	3 :	139 :	3 :	139	
Mo.	7,072	: 4 :	323 :	- :	- :	3 :	243 :	- :	-	
S. Dak.	212	: 0 :	0 :	- :	- :	0 :	0 :	- :	-	
Nebr.	880	: 0 :	0 :	- :	- :	- :	- :	- :	-	
Kans.	2,166	: t :	+	t :	+	12 :	321 :	0.5:	13	
Ky.	2,625	: 8 :	447 :	t :	+	- :	- :	- :	-	
Tenn.	1,311	: 15 :	293 :	1 :	19 :	10 :	196 :	1 :	20	
Ala.	731	: 1 :	8 :	1.5:	13 :	10 :	89 :	t :	+	
Miss.	120	: 3 :	4 :	3 :	4 :	3 :	4 :	t :	+	
La.	31	: t :	+	t :	+	t :	+	t :	+	
Texas	270	: 1 :	3 :	1 :	3 :	4 :	12 :	- :	-	
Okla.	1,240	: t :	+	- :	- :	6 :	80 :	- :	-	
Ark.	3,025	: 1 :	35 :	0.3:	11 :	3 :	105 :	1 :	35	
Mont.	990	: 0 :	0 :	- :	- :	0 :	0 :	0 :	0	
Wyo.	35	: 0 :	0 :	- :	- :	0 :	0 :	0 :	0	
Colo.	3,010	: 0 :	0 :	- :	- :	0 :	0 :	0 :	0	
N. Mex.	1,400	: 0 :	0 :	- :	- :	0 :	0 :	0 :	0	
Ariz.	128	: 0 :	0 :	0 :	0 :	0 :	0 :	0 :	0	
Utah	1,119	: 0 :	0 :	0 :	0 :	0 :	0 :	0 :	0	
Nev.	56	: 0 :	0 :	0 :	0 :	0 :	0 :	0 :	0	
Idaho	5,600	: 0 :	0 :	0 :	0 :	0 :	0 :	0 :	0	
Wash.	31,357	: 0 :	0 :	0 :	0 :	0 :	0 :	0 :	0	
Oregon	8,000	: 0 :	0 :	- :	- :	0 :	0 :	0 :	0	
Calif.	8,450	: 0 :	0 :	- :	- :	0 :	0 :	0 :	0	
U. S.	196,770	: 0.81:	1,846	: 0.97:	2,210	: 1.31:	2,963	: 0.53:	1,195	

Estimated reduction in yield of apple due to fire blight (Bacillus amylovorus), scab (Venturia inaequalis), and other diseases, 1923

State	Estimated reduction in yield due to disease									
	Fire blight		Scab		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.	-	-	-	-	-	-	-	-	-	-
N. H.	t	4	1	8	-	-	1	8	2	16
Vt.	2	13	5	33	-	-	1	6	9	58
Mass.	0.5	15	1	31	2	63	0	0	4	125
R. I.	0.5	2	2	10	2	10	1	4	6	28
Conn.	0.5	9	3	54	1	18	0	0	6	108
N. Y.	8	2,313	5	1,446	2	578	0	0	17	4,915
N. J.	0.5	12	0.5	12	5.5	131	0	0	8	191
Pa.	3	364	4	485	3	364	-	-	10.5	1,273
Del.	0.5	8	3	49	20	324	0	0	24	421
Md.	5	139	3	84	2	56	0	0	17.5	487
Va.	1	122	3	368	12	1,470	0	0	20	2,450
W. Va.	1	101	1	100	10	1,008	0	0	17.5	1,764
N. C.	4	154	8	309	3	116	0	0	30	1,156
S. C.	1	3	1	3	2	6	0	0	14	44
Ga.	1	9	3	29	-	-	-	-	10	96
Ohio	3	478	6	957	2	319	0	0	22.3	3,557
Ind.	1	56	4	225	0.3	17	0	0	10.3	578
Ill.	1.5	130	3.5	303	1.5	130	0	0	15	1,300
Mich.	5	708	1	141	-	-	1	141	7	990
Wis.	2	49	2	49	1	25	0	0	5	123
Minn.	4	70	3	53	6	105	0	0	13.5	237
Iowa	1	46	7	324	2	92	0	0	19	879
Mo.	0.5	40	-	-	-	-	5	404	12.5	1,010
S. Dak.	-	-	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-	-	-
Kans.	3	80	1.5	40	2	54	0	0	19	508
Ky.	5	279	30	1,676	-	-	10	558	53	2,960
Tenn.	2	39	2	39	2	39	0	0	33	645
Ala.	1	9	4	36	t	+	0	0	17.5	155
Miss.	4	6	t	+	1	1	0	0	14	19
La.	t	+	-	-	1	+	1	+	2	+
Texas	3	9	-	-	5	16	0	0	14	43
Okla.	t	+	-	-	-	-	2	27	8	107
Ark.	3	105	0.5	18	5	175	0	0	13.8	484
Mont.	-	-	-	-	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-	-	-	-
Colo.	t	+	-	-	-	-	-	-	t	+
N. Mex.	8	127	-	-	4	63	0	0	12	190
Ariz.	-	-	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-	-	-
Nev.	3	1	-	-	2	1	0	0	5	2
Idaho	5	303	0.5	30	2	121	0	0	7.5	454
Wash.	1	339	0.5	170	6	2,033	0	0	7.5	2,542
Oregon	-	-	-	-	-	-	-	-	-	-
Calif.	-	-	-	-	-	-	-	-	t	+
U. S.	2.71	6,138	3.12	7,082	3.24	7,335	0.51	1,148	13.26	29,917

PLUM AND PRUNE

Estimated reduction in yield of plum and prune due to brown rot
(Sclerotinia cinerea), and other diseases, 1923.

State	Estimated reduction in yield due to disease				
	Sum of traces :				All diseases %
	Brown rot	Other diseases	and no data		
	%	%	%		
N. H.	1	-	0		1
Vt.	2	-	0		2
Mass.	0.5	1	0		1.5
Conn.	1	1	0		2
N. Y.	2	1.5	0		3.5
N. J.	0.5	1.5	-		2
Pa.	1.5	1	-		2.5
Del.	0.5	0.5	0		1
Md.	-	-	1		1
Va.	2	-	0		2
W. Va.	4	2	0		6
N. C.	-	-	3		3
S. C.	1	2	0		3
Ohio	11	2	0		13
Ind.	-	-	4		4
Ill.	5	2	0		7
Mich.	t	-	0		+
Wis.	5	-	0		5
Minn.	3.5	7	0		10.5
Iowa	22	-	-		22
N. Dak.	1	5	0		6
Ky.	10	-	10		20
Tenn.	20	1	0		21
Miss.	-	1	0		1
La.	t	-	-		+
Texas	-	2	0		2
Okla.	-	-	2		2
Ark.	10	5	0		15
N. Mex.	2	-	0		2
Idaho	-	1	1		2
Wash.	1	3	4		8

CHERRY

Estimated reduction in yield of cherries due to brown rot (Sclerotinia cinerea), leaf spot (Coccomyces hiemalis), and other diseases, 1923.

State	Estimated reduction in yield due to disease						All diseases
	Brown rot	Leaf spot	Other diseases	Sum of traces and no data			
	%	%	%	%		%	
N. H.	1	-	-	-	:	1	
Mass.	0.5	0.5	-	0	:	1	
Conn.	1	-	1	0	:	2	
N. Y.	2	0.5	0.5	0	:	3	
N. J.	t	1	0.5	-	:	1.5	
Pa.	2	0.3	0.7	-	:	3	
Del.	0.5	0.2	5	0	:	5.7	
Va.	2	3	-	0	:	5	
W. Va.	2	t	t	0	:	2	
Ohio	1	8	1	0	:	10	
Ind.	1	5	-	0	:	6	
Ill.	2	1.5	t	0	:	3.5	
Mich.	t	2	0	0	:	2	
Wis.	t	1	1	0	:	2	
Iowa	3	4	-	-	:	7	
Kans.	2	4	-	0	:	6	
Ky.	5	20	3	0	:	28	
Tenn.	1	5	1	0	:	7	
Ark.	3	4	2	0	:	9	
N. Mex.	2	-	-	0	:	2	
Idaho	0	-	1	0	:	1	
Wash.	3	t	2	0	:	5	

GRAPE

Estimated reduction in yield of grape due to black rot (Guignardia bidwellii), and other diseases, 1923.

State	Estimated reduction in yield due to disease			
	Black rot		Sum of traces :	
	%	%	and no data	All diseases
	%	%	%	%
N. H.	t	-	0	+
Vt.	-	-	t	+
Mass.	t	t	0	+
R. I.	t	-	0	+
Conn.	0.5	0.5	0	1
N. Y.	t	1	0	1
N. J.	-	-	1	1
Pa.	t	t	1	1
Del.	4	2	0	6
Md.	4	4	0	8
Va.	5	2	0	7
W. Va.	10	t	0	10
N. C.	10	2	0	12
S. C.	15	2	0	17
Ohio	7	2	0	9
Ind.	3	-	0	3
Ill.	3.5	2.5	0	6
Wis.	1	t	0	1
Minn.	1	5	0	6
Iowa	4	2	0	6
Kans.	2	2	0	4
Ky.	-	20	-	20
Tenn.	5	10	0	15
Ala.	8	1	0	9
Miss.	5	5	0	10
La.	t	-	t	+
Texas	10	10	0	20
Ark.	2	1	0	3
N. Mex.	1	2	3	6
Utah	-	5	5	10
Wash.	0	2	0	2

RASPBERRY

Estimated reduction in yield of raspberries due to mosaic and leaf curl (cause unknown), and other diseases, 1923.

State	Estimated reduction in yield due to disease				
	Mosaic and		Sum of traces		
	Leaf curl	Other diseases:	and no data	All diseases	
	%	%	%	%	%
Vt.	1	-	0		1
Mass.	10	1	0		11
Conn.	4	1	0		5
N. Y.	20	5	0		25
N. J.	15	5	-		20
Pa.	15	15	0		30
Del.	1	0.5	0		1.5
Md.	2	-	-		2
Va.	-	5	0		5
W. Va.	-	2	0		2
Ohio	3	18	0		21
Ind.	3	10	0		13
Ill.	t	6	0		6
Mich.	10	10	0		20
Wis.	1	5	0		6
Minn.	4.5	6	0		10.5
Iowa	-	16	-		16
N. Dak.	t	2	0		2
Kans.	-	10	0		10
Ky.	-	-	55		55
Tenn.	t	5	0		5
Miss.	-	t	0		+
Texas	-	10	0		10
Ark.	0	7	0		7
N. Mex.	-	1	0		1
Utah	20	-	0		20
Idaho	2	2	0		4
Wash.	5	10	0		15

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