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THE PLANT DISEASE REPORTER

Issued By

The Office of Plant Disease Survey
and
Pathological Collections

Supplement 43

Crop Losses from Plant Diseases in the United States in 1924

October 1, 1925

BUREAU OF PLANT INDUSTRY

UNITED STATES DEPARTMENT OF AGRICULTURE

CROP LOSSES FROM PLANT DISEASES IN THE UNITED STATES IN 1924

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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 for plant diseases of some of the major crops. The estimates for 1924, herewith presented, are the eighth 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, 30, and 36.)

Estimated percentage loss to twelve crops from
plant diseases 1919 to 1924.

Crop	Percent loss					
	1919	1920	1921	1922	1923	1924
Wheat	16.96	11.70	9.2	8.9	11.82	8.87
Rye	1.74	1.98	1.4	1.9	2.32	2.04
Barley	5.90	4.60	5.7	4.6	5.69	3.78
Oats	5.90	4.80	8.6	5.6	6.06	6.79
Corn	6.41	6.39	8.8	6.0	10.7	9.43
Potato	19.50	21.70	18.6	21.1	16.20	19.15
Sweet potato	36.23	25.8	28.3	21.49	20.9	17.72
Dry bean	3.70	4.3	14.1	16.1	10.0	-
Cotton	13.59	13.4	15.8	9.2	19.5	12.65
Apple	11.37	16.5	11.3	22.5	13.20	18.68
Peach	12.04	19.4	15.3	18.6	6.0	9.41
Pear	-	-	-	-	7.42	9.37

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*), 1924.

State	: Production:		Estimated reduction in yield due to disease							
	: 1924 :		Scab		Leaf rust		Stem rust		Bunt	
	Bushels	:	Bushels	:	Bushels	:	Bushels	:	Bushels	:
	(000	% :	(000	% :	(000	% :	(000	% :	(000	% :
	omitted)	:	omitted)	:	omitted)	:	omitted)	:	omitted)	:
Me.	130	- :	-	- :	-	- :	-	- :	-	- :
Vt.	60	- :	-	0.5 :	+	0.5 :	1	- :	-	- :
Conn.	-	0.25 :	-	- :	+	0.25 :	+	0 :	0	0 :
N. Y.	6,840	t :	+	1 :	71	6 :	+	t :	+	+
N. J.	1,309	0.5 :	7	t :	+	- :	-	- :	-	- :
Pa.	20,020	5 :	1,180	1 :	236	0.2 :	47	0.5 :	118	0.5 :
Del.	1,616	2 :	34	0.1 :	1	- :	-	0.1 :	2	0.1 :
Md.	8,532	1.5 :	141	2 :	187	t :	+	1.5 :	141	1.5 :
Va.	9,628	1 :	104	1 :	104	0.3 :	31	1.5 :	156	1.5 :
W. Va.	2,574	t :	+	t :	+	t :	+	t :	+	+
N. C.	5,544	1 :	63	3 :	189	1 :	63	1 :	63	1 :
S. C.	1,476	- :	-	1 :	15	- :	-	- :	-	- :
Ga.	850	- :	-	5 :	46	t :	+	1 :	9	1 :
Ohio	37,313	1.5 :	618	- :	-	1 :	412	1.5 :	618	1.5 :
Ind.	31,437	0.5 :	168	t :	+	t :	+	1 :	336	1 :
Ill.	35,758	2 :	794	2.4 :	953	0.75 :	298	2.3 :	913	2.3 :
Mich.	20,014	1 :	211	0.5 :	105	t :	+	3 :	632	3 :
Wis.	2,353	1 :	25	1 :	25	3 :	74	0 :	0	0 :
Minn.	36,513	t :	+	t :	+	1 :	386	t :	+	+
Iowa	8,628	5 :	490	t :	+	t :	+	2 :	196	2 :
Mo.	24,629	- :	-	- :	-	- :	-	- :	-	- :
N. Dak.	134,618	1 :	1,622	t :	+	3 :	4,865	1 :	1,622	1 :
S. Dak.	34,138	0 :	0	0 :	0	1 :	355	1 :	355	1 :
Nebr.	57,115	t :	+	t :	+	0 :	0	t :	+	+
Kans.	153,738	t :	+	t :	+	t :	+	8 :	13,515	8 :
Ky.	4,340	0.5 :	23	t :	+	0 :	0	t :	+	+
Tenn.	3,570	5 :	192	- :	-	- :	-	- :	-	- :
Ala.	80	- :	-	- :	-	t :	+	- :	-	- :
Miss.	32	0 :	0	0 :	0	0 :	0	0 :	0	0 :
La.	-	- :	-	t :	+	t :	+	- :	-	- :
Tex.	25,826	t :	+	1 :	277	1 :	278	0.5 :	139	0.5 :
Okla.	54,874	1 :	617	0 :	0	3 :	1,850	2 :	1,233	2 :
Ark.	678	t :	+	t :	+	t :	+	4 :	31	4 :
Mont.	51,668	0 :	0	t :	+	1 :	549	3 :	1,649	3 :
Wyo.	2,131	0 :	0	0 :	0	0.5 :	10	- :	-	- :
Colo.	21,030	- :	-	0 :	0	0 :	0	0.75 :	162	0.75 :
N. Mex.	2,551	1 :	28	- :	-	1 :	28	1 :	27	1 :
Ariz.	837	0 :	0	- :	-	0 :	0	2 :	17	2 :
Utah	4,413	0 :	0	0.1 :	4	0.5 :	23	0.6 :	27	0.6 :
Nev.	402	0 :	0	- :	-	- :	-	- :	-	- :
Idaho	17,828	0 :	0	0 :	0	t :	+	8 :	1,593	8 :
Wash.	27,300	0 :	0	t :	+	t :	+	6 :	1,761	6 :
Oregon	15,450	0 :	0	t :	+	t :	+	4 :	650	4 :
Calif.	4,770	0 :	0	0 :	0	0 :	0	1.5 :	73	1.5 :
U. S.	872,673	0.66 :	6,317	0.23 :	2,213	0.97 :	9,270	2.72 :	26,038	2.72 :

Estimated reduction in yield of wheat due to loose smut (*Ustilago tritici*), and other diseases, 1924.

State	Estimated reduction in yield due to disease							
	Loose 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.	-	-	-	-	2	1	3	2
Conn.	2	+	-	-	0	0	2.5	+
N. Y.	1	71	1.5	107	0.5	36	4	285
N. J.	1.5	21	t	+	1	14	3	42
Pa.	2	472	6.5	1,535	0	0	15.2	3,588
Del.	0.5	8	1.5	25	0	0	4.2	70
Md.	3	281	1	93	0	0	9	843
Va.	3	311	0.5	52	0	0	7.3	758
W. Va.	2	53	t	+	1	26	3	79
N. C.	3	189	3	189	0	0	12	756
S. C.	1	15	1.5	24	0	0	3.5	54
Ga.	-	-	1	9	0	0	7	64
Ohio	1.5	618	4	1,650	0	0	9.5	3,916
Ind.	5	1,681	-	-	0	0	6.5	2,185
Ill.	0.5	199	2	794	0	0	9.95	3,951
Mich.	0.5	105	-	-	0	0	5	1,053
Wis.	t	+	0.5	12	0	0	5.5	136
Minn.	0.5	193	-	-	4	1,546	5.5	2,125
Iowa	2	196	3	294	0	0	12	1,176
Mo.	-	-	-	-	-	-	-	-
N. Dak.	1.5	2,433	10.5	17,030	0	0	17	27,572
S. Dak.	t	+	2	712	0	0	4	1,422
Nebr.	1	582	t	+	1	583	2	1,165
Kans.	0.5	844	-	-	0.5	845	9	15,204
Ky.	1.5	68	3	137	0	0	5	228
Tenn.	2	76	-	-	0	0	7	268
Ala.	-	-	-	-	-	-	-	-
Miss.	0	0	0	0	-	-	-	-
La.	t	+	-	-	-	-	t	+
Texas	0.5	139	4	1,111	0	0	7	1,944
Okla.	1	616	4	2,466	0	0	11	6,782
Ark.	5	38	2	15	0	0	11	84
Mont.	t	+	1	550	1	550	6	3,298
Wyo.	-	-	-	-	-	-	0.5	10
Colo.	0	0	-	-	1.25	268	2	430
N. Mex.	5	138	-	-	0	0	8	221
Ariz.	-	-	-	-	-	-	2	17
Utah	1.2	55	1	46	0	0	3.4	155
Nev.	-	-	-	-	-	-	-	-
Idaho	2	398	0.5	100	0	0	10.5	2,091
Wash.	t	+	t	+	1	293	7	2,054
Oregon	t	+	t	+	1	163	5	813
Calif.	0	0	1	49	0	0	2.5	122
U. S.	1.02	9,800	2.82	27,000	0.45	4,325	8.87	84,963

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, 1924.

Estimated reduction in yield due to disease												
Produc- tion	Smut	Ergot	Leaf rust	Stem rust	Other	Sum of traces	All					
State	Bushels: :(000 o--: :mited):	Bushels: :(000 o--: :mited):	Bushels: :(000 o--: :mited):	Bushels: :(000 o--: :mited):	Bushels: :(000 o--: :mited):	Bushels: :(000 o--: :mited):	Bushels: :(000 o--: :mited):	Bushels: :(000 o--: :mited):	Bushels: :(000 o--: :mited):	Bushels: :(000 o--: :mited):	Bushels: :(000 o--: :mited):	Bushels: :(000 o--: :mited):
Mass.	60	-	-	-	-	-	-	-	-	-	-	-
Conn.	72	0	-	1.5	1	1.5	1	-	-	0	0	2
N. Y.	935	t	+	1	9	t	+	1.5	14	0.5	5	28
N. J.	1,138	-	t	2	23	-	-	t	+	0.5	6	29
Pa.	3,264	0.5	17	0	17	t	+	5.5	192	0	0	226
Del.	81	-	-	t	+	-	-	1	1	0	0	1
Md.	300	-	-	1	3	-	-	-	-	1	3	6
Va.	537	0	t	t	+	0	0	1	5	0	0	5
W. Va.	112	-	-	-	-	-	-	-	-	-	-	-
N. C.	852	-	-	-	-	-	-	-	-	-	-	-
S. C.	32	-	-	-	-	-	-	1	+	0	0	+
Ga.	184	-	-	1	1	t	+	t	+	1	2	3
Ohio	1,280	-	2	3	41	1	14	1	14	0	0	96
Ind.	3,682	-	-	-	-	-	-	0.5	18	0	0	18
Ill.	2,580	0.3	8	0.5	13	-	-	0.6	16	0	0	63
Mich.	6,006	t	+	2	123	-	62	-	-	0	0	185
Wis.	5,457	t	+	t	+	t	+	4	227	0	0	227
Minn.	11,780	0.5	59	-	+	t	+	-	-	0.5	60	119
Iowa	864	t	+	t	+	t	+	t	+	0	0	36
Mo.	270	-	-	-	-	-	-	-	-	-	-	-
N. Dak.	13,860	t	+	0.5	70	t	+	t	+	0.5	70	140
S. Dak.	2,956	1	31	2	61	0	31	0	0	0	0	123

State	Production 1924	Estimated reduction in yield due to disease										Sum of traces All
		Smut	Ergot	Leaf rust	Stem rust	Other	Bushels	Bushels	Bushels	Bushels	Bushels	
		: Bushels: : (000 o-: : omitted):	: Bushels: : (000 o-: : omitted):	: % : (000 o-: : omitted):	: % : (000 o-: : omitted):	: % : (000 o-: : omitted):	: Bushels: : (000 o-: : omitted):	: Bushels: : (000 o-: : omitted):	: Bushels: : (000 o-: : omitted):	: Bushels: : (000 o-: : omitted):	: Bushels: : (000 o-: : omitted):	
Nebr.	1,914	-	0	-	0	-	0	0	-	-	-	-
Kans.	568	-	-	t	t	t	t	t	t	t	t	+
Ky.	176	0	0.5	t	0	3	0	0	3	0	3.5	6
Tenn.	198	-	-	-	-	-	-	-	-	-	-	-
Ala.	10	-	-	-	-	-	-	-	-	-	-	-
Miss.	0	0	0	t	0	10	0	15	0	10	0	1
La.	-	-	-	t	-	-	-	-	-	-	-	+
Texas	272	-	-	-	-	-	-	-	-	-	-	+
Okla.	513	-	-	t	-	3	-	8	0	15	0	8
Ark.	11	-	-	-	-	t	+	+	+	+	+	+
Mont.	1,750	0	t	t	0	1	0	+	+	+	+	+
Wyo.	264	-	-	-	-	-	-	-	-	-	-	-
Colo.	740	0	0	0	0	0	0	0	0	0	0	0
N. Mex.	40	-	-	-	-	-	-	-	-	-	-	-
Utah	99	-	t	-	-	-	-	-	-	-	-	-
Idaho	154	t	t	0	t	0	+	+	+	+	+	+
Wash.	100	0	0	0	t	t	+	+	+	+	+	+
Oregon	280	0	0	-	t	-	+	+	+	+	+	+
Calif.	0	0	0	0	0	0	0	0	0	0	0	0
U. S.	63,446	0.18:	115 : 0.53:	344 : 0.17:	108 : 0.17:	108 : 0.77:	501 : 0.22:	146 : 2.04:	1,322			

Estimated reduction in yield of barley due to stripe (Helminthosporium gramineum), loose smut (Ustilago nuda), and covered smut (Ustilago hordei), 1924.

State	Production:		Estimated reduction in yield due to disease					
	1924		Stripe		Loose smut		Covered smut	
	Bushels		Bushels		Bushels		Bushels	
	(000	%	(000	%	(000	%	(000	%
	omitted)		omitted)		omitted)		omitted)	
Me.	107	-	-	-	-	-	-	-
N. H.	26	-	-	-	-	-	-	-
Vt.	288	-	-	0.5	1	0.5	1	
Conn.		0	0	1.5	+	0.5	+	
N. Y.	6,900	t	+	2.5	184	1	73	
Pa.	318	t	+	4	13	1.5	5	
Del.		t	+	t	+	1	+	
Md.	175	-	-	-	-	-	-	
Va.	324	0.1	+	3	10	5	18	
S. C.		-	-	1	+	-	-	
Ga.		-	-	1	+	1	+	
Ohio	2,250	0.5	11	-	-	-	-	
Ind.	800	-	-	3	25	t	+	
Ill.	7,781	1.8	149	2	165	t	+	
Mich.	4,743	t	+	0.5	24	t	+	
Wis.	13,536	1.5	209	t	+	t	+	
Minn.	29,248	1.5	447	0.5	149	t	+	
Iowa	4,710	5	286	1	57	3	171	
Mo.	100	-	-	-	-	-	-	
N. Dak.	35,100	1	370	1	369	1	369	
S. Dak.	22,428	2	472	1	236	0	0	
Nebr.	6,275	t	+	t	+	-	-	
Kans.	11,550	-	-	2	242	2	242	
Ky.	120	-	-	2.5	3	5	6	
Tenn.	360	-	-	5	18	-	-	
Ala.		-	-	-	-	3	+	
La.		t	+	-	-	-	-	
Texas	3,220	t	+	0.5	18	0.5	18	
Okla.	4,675	-	-	-	-	-	-	
Mont.	3,100	t	+	1	32	2	63	
Wyo.	900	-	-	-	-	-	-	
Colo.	8,160	0.1	8	0.1	8	0.1	8	
N. Mex.	240	-	-	2	4	-	-	
Ariz.	1,260	0	0	1	13	2	25	
Utah	936	1.5	14	0.2	2	t	+	
Nev.	145	-	-	-	-	-	-	
Idaho	2,958	0.5	15	t	+	1.5	46	
Wash.	2,640	t	+	0	0	1	26	
Oregon	2,425	t	+	t	+	1	24	
Calif.	10,080	t	+	t	+	0.5	51	
U. S.	187,875	1.01	1,981	0.81	1,573	0.59	1,146	

Estimated reduction in yield of barley due to leaf rust (Puccinia simplex), stem rust (Puccinia graminis), and other diseases, 1924.

State	Estimated reduction in yield due to disease						
	Leaf rust		Stem rust		Other diseases		All
	: Bushels:		: Bushels:		: Bushels:		: Bushels
	: %	: (000	: %	: (000	: %	: (000	: %
	: omitted)	:	: omitted)	:	: omitted)	:	: omitted)
Me.	-	:	-	:	-	:	-
N. H.	-	:	-	:	-	:	-
Vt.	-	:	-	:	-	:	2
Conn.	:0.25:	+	:0.25:	+	-	:0	:0:2.5:
N. Y.	:t:	+	:1:	73	:1.5:	110	:0:6:
Pa.	:t:	+	:t:	+	:2:	7	:0:7.5:
Del.	-	:	-	:	-	:0	:0:1:
Md.	-	:	-	:	-	:	-
Va.	:t:	+	:t:	+	:0:	0	:0:8.1:
S. C.	-	:	-	:	:1:	+	:3:
Ga.	:t:	+	-	:	:2:	+	:0:4:
Ohio	-	:	-	:0.5:	12	:1:	23
Ind.	-	:	-	:	-	:1:	8
Ill.	:t:	+	-	:	-	:2:	165
Mich.	:t:	+	:t:	+	:0.5:	24	:0.5:24:1.5:
Wis.	:t:	+	:0.5:	69	-	-	:0.5:69:2.5:
Minn.	:0:	0	:t:	+	-	-	:0:2:
Iowa	:t:	+	:1:	57	:7.5:	428	:0:17.5:
Mo.	-	:	-	:1:	-	:3:	3
N. Dak.	:0:	0	:1:	370	:1:	369	:0:5:
S. Dak.	:0:	0	:2:	472	:0:	0	:0:5:
Nebr.	:0:	0	:0:	0	-	-	-
Kans.	-	:	-	:	:0.5:	60	:0:4.5:
Ky.	:t:	+	:0:	0	:0.5:	1	:0:8:
Tenn.	-	:	-	:	-	:0:	0
Ala.	-	:	-	:	-	:0:	0
La.	:t:	+	-	:	-	:1:	+
Texas	:1:	35	:1:	35	:5.5:	193	:0:8.5:
Okla.	-	:	-	:	-	:	-
Mont.	:t:	+	:0:	0	-	-	:3:
Wyo.	-	:	-	:	-	:	-
Colo.	:0:	0	:0:	0	-	-	:0:0.3:
N. Mex.	-	:	-	:t:	+	-	-
Ariz.	:0:	0	:0:	0	:0:	0	:0:3:
Utah	:t:	+	:t:	+	:0.1:	1	:0:1.8:
Nev.	-	:	-	:	-	-	-
Idaho	:0:	0	:t:	+	:1:	30	:0:3:
Wash.	:0:	0	:t:	+	:t:	+	:0:1:
Oregon	-	:	-	:t:	+	:t:	-
Calif.	:0:	0	:0:	0	:t:	+	:0.5:51:1:
U. S.	:0.01:	35	:0.56:	1,089	:0.72:	1,411	:0.08:155:3.78:7,390

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, 1924.

State	Estimated reduction in yield due to disease											
	Production:	Loose and covered smut:		Stem rust:		Crown rust:		Other diseases:		Sum of traces:		All diseases
	1924	Bushels:		Bushels:		Bushels:		Bushels:		Bushels:		
		(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)
	omitted)	omitted)		omitted)		omitted)		omitted)		omitted)		omitted)
Me.	4,477	-	-	-	-	-	-	-	-	-	-	-
N. H.	702	t	1	7	t	+	-	-	1	7	2	14
Vt.	2,584	2	54	27	2	55	-	-	0	0	5	136
Mass.	272	2	5	+	t	+	-	-	1	3	3	8
R. I.	30	-	-	-	-	-	-	-	-	-	-	-
Conn.	290	2	6	3	1	3	-	-	0	0	4	12
N. Y.	34,056	4	1,481	+	2	740	2	740	0	0	4	2,961
N. J.	2,144	3	67	-	t	+	t	+	1	22	4	89
Pa.	37,080	5.5	2,242	407	1	407	1.5	611	0	0	9	3,687
Del.	210	1	2	-	t	+	1	2	0	0	2	4
Md.	2,074	3	65	+	t	+	-	-	1	21	4	86
Va.	4,394	6	286	+	t	48	1	48	0	0	8	382
W. Va.	4,784	1	48	+	t	+	t	+	1	49	2	97
N. C.	4,544	2.4	114	-	-	-	-	-	0	0	2.4	114
S. C.	7,704	5	405	-	-	-	-	-	0	0	5	405
Ga.	3,978	4	171	-	2	85	1	43	0	0	7	299
Fla.	465	-	-	-	-	-	-	-	-	-	-	-
Ohio	64,657	1.5	1,043	348	0.5	347	4.5	3,128	0	0	7	4,866
Ind.	70,034	2	1,429	-	t	+	-	-	-	-	2	1,429
Ill.	163,680	5.7	11,067	971	0.5	971	9	17,474	0	0	15.7	30,483
Mich.	67,200	3	2,100	700	t	+	-	-	0	0	4	2,800
Wis.	103,600	2.5	2,701	1,080	0.5	540	0.1	108	0	0	4.1	4,429
Minn.	193,500	3	6,078	1,013	t	+	-	-	1	2,026	4.5	9,117
Iowa	248,282	5	13,642	+	t	+	4	10,913	0	0	9	24,555

Estimated reduction in yield of corn due to smut (*Ustilago zeae*), leaf rust (*Puccinia sorghi*), and brown spot (*Physoderma zeae-maydis*), 1924.

State	Production :		Estimated reduction in yield due to disease					
	1924 :		Smut :		Leaf rust :		Brown spot	
	Bushels :		Bushels :		Bushels :		Bushels	
	(000 :	% :	(000 :	% :	(000 :	% :	(000	
	omitted) :		omitted) :		omitted) :		omitted)	
Me.	756	-	-	0	0	0	0	0
N. H.	1,232	t	+	0	0	0	0	0
Vt.	4,230	1	42	0	0	0	0	0
Mass.	2,745	1	29	t	+	0	0	0
R. I.	504	-	-	0	0	0	0	0
Conn.	3,268	3	102	0	0	0	0	0
N. Y.	24,519	2	527	t	+	0	0	0
N. J.	8,024	0.5	43	-	-	0	0	0
Pa.	55,692	5	3,315	t	+	0	0	0
Del.	4,725	0.5	26	-	-	1	52	
Md.	18,538	1.5	314	-	-	-	-	-
Va.	37,086	1.5	615	t	+	0	0	0
W. Va.	15,176	1	158	-	-	-	-	-
N. C.	44,514	2	995	1	497	0.5	249	
S. C.	21,862	1	226	-	-	-	-	-
Ga.	50,203	2	1,167	t	+	3	1,751	
Fla.	12,252	-	-	-	-	-	-	-
Ohio	94,900	3	3,181	-	-	-	-	-
Ind.	116,916	0.4	494	t	+	-	-	-
Ill.	293,600	3.3	11,787	0.5	1,786	1	3,572	
Mich.	43,836	t	+	t	+	0	0	0
Wis.	57,980	t	+	0	0	0	0	0
Minn.	126,336	0.5	638	-	-	0	0	0
Iowa	304,752	3	10,389	t	+	0	0	0
Mo.	170,612	-	-	-	-	-	-	-
N. Dak.	22,740	4	957	t	+	0	0	0
S. Dak.	99,990	t	+	0	0	0	0	0
Nebr.	203,280	2.5	5,240	0	0	0	0	0
Kans.	130,305	3	4,462	t	+	0	0	0
Ky.	80,850	0.5	470	0	0	-	-	-
Tenn.	69,718	-	-	-	-	1	882	
Ala.	42,185	1	453	t	+	0.5	227	
Miss.	29,316	t	+	t	+	t	+	+
La.	18,998	t	+	t	+	0.5	100	
Texas	78,200	0.5	418	t	+	0	0	0
Okla.	65,600	2	1,581	-	-	-	-	-
Ark.	36,300	t	+	t	+	t	+	+
Mont.	9,198	t	+	0	0	0	0	0
Wyo.	2,310	-	-	-	-	0	0	0
Colo.	15,650	t	+	-	-	0	0	0
N. Mex.	4,200	3	131	t	+	0	0	0
Ariz.	930	1	9	0	0	0	0	0
Utah	728	1	7	-	-	0	0	0
Nev.	27	-	-	-	-	0	0	0
Idaho	2,800	t	+	0	0	0	0	0
Wash.	2,345	0.5	11	0	0	0	0	0
Oregon	2,135	t	+	0	0	0	0	0
Calif.	3,850	10	453	0	0	0	0	0
U. S.	2,436,513	1.79	48,240	0.08	2,283	0.25	6,833	

Estimated reduction in yield of corn due to rootrot (*Gibberella saubinetii*), ear rots (*Fusarium* sp.) and other diseases, 1924.

State	Estimated reduction in yield due to disease									
	Root rots		Ear rots		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.	-	-	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-	1	42
Mass.	1	28	t	+	-	-	2	57	4	114
R. I.	-	-	-	-	-	-	-	-	-	-
Conn.	0.5	17	0.5	17	-	-	0	0	4	136
N. Y.	4	1,054	t	+	1	264	0	0	7	1,845
N. J.	4	345	2.5	215	-	-	0	0	7	603
Pa.	5	3,315	6	3,978	0	0	0	0	16	10,608
Del.	1.5	78	5	259	1	52	-	-	9	467
Md.	5	1,047	5	1,047	-	-	0	0	11.5	2,408
Va.	4	1,639	4	1,639	t	+	0	0	9.5	3,893
W. Va.	2	316	1	158	t	+	0	0	4	632
N. C.	3	1,492	4	1,989	-	-	0	0	10.5	5,222
S. C.	1	225	1	225	-	-	0	0	3	676
Ga.	3	1,751	4	2,335	2	1,168	0	0	14	8,172
Fla.	-	-	-	-	-	-	-	-	-	-
Ohio	2.5	2,651	4	4,241	1	1,060	0	0	10.5	11,133
Ind.	5	6,179	t	+	-	-	0	0	5.4	6,673
Ill.	10	35,717	-	-	3	10,715	0	0	17.8	63,577
Mich.	5	2,332	-	-	-	-	1	466	6	2,798
Wis.	3	1,821	1	607	t	+	0.5	304	4.5	2,732
Minn.	t	+	t	+	-	-	0.5	638	1	1,276
Iowa	1	3,463	6	20,779	2	6,926	0	0	12	41,557
Mo.	-	-	-	-	-	-	-	-	-	-
N. Dak.	t	+	t	+	t	+	1	239	5	1,196
S. Dak.	4	4,210	1	1,052	-	-	0	0	5	5,262
Nebr.	0	0	t	+	-	-	0.5	1,047	3	6,287
Kans.	6	8,926	3	4,462	-	-	0	0	12	17,850
Ky.	12	11,281	1.5	1,410	-	-	0	0	14	13,161
Tenn.	10	8,825	10	8,825	-	-	0	0	21	18,532
Ala.	3	1,361	2	907	-	-	0.5	227	7	3,175
Miss.	-	-	-	-	-	-	4	1,221	4	1,221
La.	2	400	2	400	-	-	0.5	100	5	1,000
Texas	1	836	1	836	4	3,346	0	0	6.5	5,436
Okla.	7	5,532	6	4,742	2	1,581	-	-	17	13,436
Ark.	t	+	2	764	3	1,146	0	0	5	1,910
Mont.	-	-	-	-	-	-	-	-	t	+
Wyo.	-	-	-	-	-	-	-	-	-	-
Colo.	-	-	-	-	-	-	-	-	t	+
N. Mex.	-	-	1	44	-	-	0	0	4	175
Ariz.	-	-	0	0	-	-	-	-	1	9
Utah	-	-	-	-	-	-	-	-	1	7
Nev.	-	-	-	-	-	-	-	-	-	-
Idaho	0	0	0	0	0	0	-	-	t	+
Wash.	0	0	0	0	t	+	-	-	0.5	11
Oregon	-	-	t	+	-	-	-	-	t	+
Calif.	5	226	t	+	-	-	0	0	15	679
U. S.	3.91	105,067	2.26	60,931	0.98	26,258	0.16	4,299	9.43	253,911

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), 1924.

: Production:		Estimated reduction in yield due to disease									
: 1924											
State	Bushels	Mosaic	Leaf roll	Late blight	Rhizoctonia	Blackleg	Fusarium wilt				
:	(000	Bushels:	Bushels:	Bushels:	Bushels:	Bushels:	Bushels:	:	:	:	:
:	omitted)	:(000 o-:	:(000 o-:	:(000 o-:	:(000 o-:	:(000 o-:	:(000 o-:	:	:	:	:
:	:	:mited):	:mited):	:mited):	:mited):	:mited):	:mited):	:	:	:	:
Me.	41,175	-	-	-	-	-	-	:	:	:	:
N. H.	2,520	10	173	10	345	t	+	:	:	:	:
Vt.	4,290	5	290	8	463	2	116	:	:	:	:
Mass.	4,340	5	255	1	51	2	102	:	:	:	:
R. I.	420	-	-	-	-	-	-	:	:	:	:
Conn.	3,425	0.25	10	t	+	0.25	10	:	:	:	:
N. Y.	46,520	4	2,722	5	3,403	8	5,445	:	:	:	:
N. J.	11,544	3	417	1.5	209	2	278	:	:	:	:
Pa.	28,792	2	753	-	-	9	3,387	:	:	:	:
Del.	819	0.5	4	t	+	-	-	:	:	:	:
Md.	3,818	5	223	2	89	-	134	:	:	:	:
Va.	19,200	2	419	1	210	t	629	:	:	:	:
W. Va.	4,841	1	80	t	+	25	2,018	:	:	:	:
N. C.	6,195	5	398	1	79	3	238	:	:	:	:
S. C.	3,885	t	+	t	+	1	50	:	:	:	:
Ga.	1,608	5	89	1	18	0	0	:	:	:	:
Fla.	2,900	5	181	t	+	-	-	:	:	:	:
Ohio	11,500	3	426	5	710	1	142	:	:	:	:
Ind.	7,227	-	-	-	-	-	-	:	:	:	:
Ill.	11,960	t	+	t	+	t	+	:	:	:	:
Mich.	38,252	2	1,108	5	2,772	5	4,435	:	:	:	:
Wis.	31,460	t	+	t	+	16	388	:	:	:	:
Minn.	44,352	2	1,152	t	+	1	576	:	:	:	:

POTATO (continued)

Estimated reduction in yield of potato due to tipburn and hopperburn, early blight (Alternaria solani), and other diseases, 1924.

State	Estimated reduction in yield due to disease									
	Production:	Tipburn and:	hopperburn	Early blight	Other diseases	and no data:	Sum of traces:			
	Bushels	Bushels	Bushels	Bushels	Bushels	Bushels	Bushels	Bushels	Bushels	Bushels
	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)
	omitted)	omitted)	omitted)	omitted)	omitted)	omitted)	omitted)	omitted)	omitted)	omitted)
	%	%	%	%	%	%	%	%	%	%
Me.	41,175	-	-	-	-	-	-	-	-	-
N. H.	2,520	-	-	1	-	-	1	35	27	932
Vt.	4,290	-	-	1	5	290	0	0	26	1,507
Mass.	4,340	-	-	t	-	-	2	102	15	765
R. I.	420	-	-	-	-	-	15	74	15	74
Conn.	3,425	0.5	20	0.5	12	484	1	40	15	604
N. Y.	46,620	5	3,403	0.3	3	2,042	0	0	31.5	21,438
N. J.	11,544	3	417	3	3.5	487	0	0	17	2,364
Pa.	28,792	-	-	0.5	-	188	8	3,011	23.5	8,844
Del.	819	0.5	4	1	1.5	13	3	26	6.5	56
Md.	3,818	1.5	67	-	-	-	2	89	14.5	647
Va.	19,200	t	+	t	-	-	1	210	8.5	1,783
W. Va.	4,841	12	969	t	t	+	1	80	40	3,227
N. C.	6,195	3	238	2	3	238	0	0	22	1,747
S. C.	3,885	-	-	15	3	151	4	202	23	1,160
Ga.	1,608	2	36	t	2	36	0	0	10.5	188
Fla.	2,900	-	-	-	-	-	15	544	20	725
Ohio	11,500	5	709	0.5	2	284	0	0	19	2,697
Ind.	7,227	-	-	-	-	-	-	-	t	+
Ill.	11,960	1	125	1.5	1	125	1	125	4.5	563
Mich.	38,252	t	+	t	7	3,880	0	0	31	17,185
Wis.	31,460	t	+	t	1	388	1	388	19	7,379
Minn.	44,552	15	8,640	t	t	+	0	0	23	13,248

State	Estimated reduction in yield due to disease											
	Production:			Tipburn and :			Early blight:			Other diseases:		
	1924	Bushels	(000	hopperburn	Bushels:	%	Bushels:	(000	%	Bushels:	(000	%
	omitted)			omitted)	omitted)		omitted)	omitted)		omitted)	omitted)	
Iowa	10,744	2	269	t	+	5	671	0	0	0	20	2,686
Mo.	10,200	-	-	-	-	-	-	-	-	-	t	+
N. Dak.	11,960	t	+	t	+	5	696	0.5	69	14	14	1,946
S. Dak.	5,822	5	339	t	+	-	-	0	0	14	14	947
Nebr.	7,743	-	-	t	+	10	980	1	98	21	16.5	2,058
Kans.	5,130	0.5	31	t	+	3	184	0	0	16.5	29	1,013
Ky.	5,700	-	-	5	401	-	-	2	161	29	24.5	2,328
Tenn.	3,500	10	463	0.5	23	-	-	2	93	11	11	1,135
Ala.	2,970	-	-	1	33	3	101	1	33	14	14	367
Miss.	1,296	0.5	7	1	15	-	-	2	30	15	15	210
la.	1,904	0	0	t	+	4	90	0	0	15	15	336
Texas	2,223	3	74	1	25	5	124	0	0	10.5	10.5	260
Okla.	3,225	t	+	1	38	2	76	-	-	15	15	569
Ark.	2,664	3	121	1	41	15	605	0	0	34	34	1,372
Mont.	3,256	0	0	0	0	2	72	1	36	10	10	361
Wyo.	1,520	-	-	-	-	-	-	-	-	-	-	-
Colo.	11,040	-	-	-	-	-	-	-	-	-	-	-
N. Mex.	210	10	26	-	-	5	13	0	0	19	19	49
Ariz.	260	0	0	1	3	4	14	0	0	24	24	82
Utah	2,184	t	+	t	+	-	-	1	27	19.6	19.6	532
Nev.	620	-	-	-	-	-	-	-	-	-	-	-
Idaho	10,725	t	+	t	+	3	397	-	-	19	19	2,515
Wash.	6,615	t	+	t	+	-	-	1	77	15	15	1,167
Oregon	3,780	t	+	t	+	2	88	0.5	22	14	14	615
Calif.	7,750	-	-	-	-	-	-	-	-	-	-	-
U. S.	454,784	2.84	15,958	0.48	2,684	2.23	12,529	0.99	5,572	19.15	19.15	107,681

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), 1924.

State	Production		Estimated reduction in yield due to disease					
	1924							
	Bushels (000 omitted)	%	Stem rot		Footrot		Blackrot	
			Bushels (000 omitted)	%	Bushels (000 omitted)	%	Bushels (000 omitted)	%
N. J.	2,431	15	498	-	-	0.2	7	-
Pa.	234	-	-	-	-	-	-	-
Del.	1,300	8	129	-	-	0.5	8	-
Md.	1,170	4	58	-	-	1	15	-
Va.	5,175	5	312	t	+	3	187	-
W. Va.	360	-	-	-	-	-	-	-
N. C.	9,292	2	224	3	336	3	336	-
S. C.	6,230	t	+	t	+	0.5	33	-
Ga.	8,704	0.5	49	0	0	2	194	-
Fla.	3,150	-	-	-	-	-	-	-
Ohio	336	-	-	-	-	-	-	-
Ind.	345	-	-	-	-	-	-	-
Ill.	864	-	-	-	-	-	-	-
Iowa	240	25	97	-	-	9	35	-
Mo.	1,400	-	-	-	-	-	-	-
Kans.	339	7	27	t	+	0.5	2	-
Ky.	1,748	-	-	-	-	-	-	-
Tenn.	3,230	2	99	0	0	8	398	-
Ala.	6,205	2	143	0	0	1	71	-
Miss.	4,400	10	571	t	+	2	115	-
La.	3,900	-	-	0	0	1	42	-
Texas	4,450	0	0	0	0	8	579	-
Okla.	2,430	4	128	-	-	5	160	-
Ark.	2,880	2	87	-	-	5	218	-
N. Mex.	120	-	-	-	-	-	-	-
Ariz.	250	1	2	0	0	1	2	-
Wash.		t	+	0	0	0	0	-
Calif.	678	-	-	-	-	-	-	-
U. S.	71,861	2.78	2,424	0.38	336	2.75	2,402	-

SWEET POTATO (continued)

Estimated reduction in yield of sweet potato due to storage rots, pox (*Gystospora batata*), and other diseases, 1924.

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:	
	%	(000	%	(000	%	(000	%	(000	%	(000
	:omitted):		:omitted):		:omitted):		:omitted):		:omitted):	
N. J.	-	-	0.5	16	1	33	10	332	26.7	886
Pa.	-	-	-	-	-	-	-	-	-	-
Del.	-	-	0.5	8	0.5	8	10	161	19.5	314
Md.	15	219	-	-	-	-	0	0	20	292
Va.	8	499	1	62	-	-	-	-	17	1,060
W. Va.	-	-	-	-	-	-	-	-	-	-
N. C.	6	671	-	-	3	336	0	0	17	1,903
S. C.	5	333	-	-	1	67	0	0	6.5	433
Ga.	5	486	0	0	3	292	0	0	10.5	1,021
Fla.	-	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-	-	-	-
Ill.	-	-	-	-	-	-	-	-	-	-
Iowa	4	15	-	-	t	+	0	0	38	147
Mo.	-	-	-	-	-	-	-	-	-	-
Kans.	3	11	t	+	t	+	0	0	10.5	40
Ky.	-	-	-	-	-	-	-	-	-	-
Tenn.	25	1,242	-	-	-	-	0	0	35	1,739
Ala.	10	713	0	0	-	-	0	0	13	927
Miss.	10	571	t	+	1	57	0	0	23	1,314
La.	2	85	t	+	-	-	5	212	8	339
Texas	25	1,809	0.5	36	5	362	-	-	38.5	2,786
Okla.	10	319	-	-	5	160	-	-	24	767
Ark.	25	1,092	-	-	2	87	-	-	34	1,484
N. Mex.	1	1	-	-	-	-	-	-	1	1
Ariz.	5	14	0	0	0	0	-	-	7	18
Wash.	0	0	0	0	0	0	-	-	t	+
Calif.	-	-	-	-	-	-	-	-	-	-
U. S.	9.25	8,080	0.14	122	1.61	1,402	0.81	705	17.72	15,471

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 dissases, 1924. (Production figures not available.)

	Estimated reduction in yield due to disease							
State	Blight	Fusarium: wilt	Bacterial: wilt	Early blight	Other diseases	Sum of traces & no data	All diseases	
N. H.	-	0	0	t	-	2	2	
Vt.	1	0	0	1	1	0	3	
Mass.	t	0	t	1	10	1	12	
R. I.	t	-	0	-	-	4	4	
Conn.	0.	0.5	0	-	3.5	0	4	
N. Y.	t	1	0	3	10	0	14	
N. J.	10	t	0	t	5	0	15	
Pa.	5	t	0	2	5	-	12	
Del.	35	0.5	0	0.5	15	0	51	
Md.	15	5	0	-	-	5	25	
Va.	15	2	t	1	5	0	23	
W. Va.	5	t	t	5	1	1	12	
N. C.	2	5	3	2	6	0	18	
S. C.	15	-	-	-	30	0	45	
Ga.	8	6	-	5	15	0	34	
Fla.	t	-	-	-	-	-	-	
Ohio	0.5	8	0	t	9	0	17.5	
Ind.	8	1	0	-	-	3	12	
Ill.	1	-	-	4	1	0	6	
Mich.	10	t	0	t	-	2	12	
Wis.	10	1	0	t	t	1	12	
Minn.	1	0	0	-	1	0	2	
Iowa	12	-	-	t	6	0	18	
Mo.	15	-	-	-	-	5	20	
N. Dak.	t	-	0	-	-	2	2	
S. Dak.	t	t	0	t	-	1	1	
Nebr.	0	0	0	t	2	-	2	
Kans.	6	10	0	1	t	0	17	
Ky.	15	4	0	0	-	2	21	
Tenn.	10	20	0	0	10	0	40	
Ala.	4	10	0.5	1	5	0	20.5	
Miss.	t	10	t	2	16	0	28	
La.	0	15	3	t	17	0	35	
Texas	4	3	0	3	10	0	20	
Okla.	-	10	2	t	2	-	14	
Ark.	t	20	t	-	2	0	22	
Mont.	0	1	0	-	2	-	3	
Colo.	t	0	0	0	0	0	t	
N. Mex.	4	-	-	-	17	-	21	
Ariz.	0	-	4.4	0	20	-	24.4	
Utah	-	2.5	-	-	30.2	-	32.7	
Nev.	0	-	0	-	-	25	25	
Idaho	t	0	0	t	27	-	27	
Wash.	0	t	0	0	25	-	25	
Oregon	0	0	0	0	0.5	30	30.5	

Estimated reduction in yield of cotton due to anthracnose (Colletotrichum gossypii), angular leafspot (Bacterium malvacearum), wilt (Fusarium vasinfectum), rootknot (Heterodera radicicola), and other diseases, 1924.

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BEAN

Estimated percentage reduction in yield of bean due to anthracnose (Colletotrichum lindemuthianum), bacterial blight (Bacterium phaseoli), mosaic, rootrots (Fusarium spp.) and other diseases, 1924.
(Production figures not available)

State	Estimated reduction in yield due to disease									
	Anthracnose		Bacterial blight		Mosaic		Rootrots		Other diseases	
	traces		no data		Sum of		All			
	%	%	%	%	%	%	%	%	%	%
N. H.	1	t	-	-	-	-	1	2		
Vt.	2	1	1	-	1	0	5			
Mass.	1	t	t	1	-	1	3			
Conn.	-	-	-	1	0	2	3			
N. Y.	1.5	10	2	5	1.5	0	20			
N. J.	2	-	1	-	-	2	5			
Pa.	2	2	-	-	2	-	6			
Del.	0.5	0.5	-	-	0.5	1	2.5			
Md.	1.5	1.5	t	-	-	2	5			
Va.	2	4	t	1	1	0	8			
W. Va.	5	t	-	t	-	0	6			
S. C.	-	1	-	-	2	1	4			
Ga.	t	4	t	-	10	0	14			
Ohio	2	1	-	-	-	2	5			
Ill.	t	1	-	-	-	1	2			
Mich.	5	5	5	-	0	0	15			
Wis.	1	t	t	t	1	1	3			
Minn.	t	1	5	t	t	1	7			
Iowa	t	2	5	-	-	1	18			
N. Dak.	-	-	-	-	-	t	t			
S. Dak.	1	-	t	-	-	1	2			
Kans.	t	-	0.3	-	-	1	1.3			
Tenn.	t	0	t	t	t	1	1			
Ala.	2	3	-	1	2	0	8			
Miss.	1	1	1	1	2	0	6			
La.	t	t	t	3	-	2	5			
Texas	0	1	0	4	5	0	10			
Okla.	0	5	5	t	1	-	11			
Ark.	-	3	-	-	1	0	4			
Mont.	0	1	3	1	-	-	5			
N. Mex.	2	2	t	5	-	-	9			
Ariz.	0	0.5	0	0	1	0	1.5			
Utah	-	-	2.5	-	-	0	2.5			
Idaho	0	t	5	2	0.5	0	7.5			
Wash.	0	0	2	t	2	0	4			
Oregon	t	0	2	-	-	-	2			

Estimated reduction in yield of grape due to blackrot (Guignardia bidwellii), and other diseases, 1924.

State	Production:		Estimated reduction in yield due to disease							
	1924		Blackrot		Other		Sum of traces		All	
	Tons		diseases		diseases		and no data		diseases	
	(000		Tons		Tons		Tons		Tons	
	omitted)	%	(000	%	(000	%	(000	%	(000	%
			omitted)		omitted)		omitted)		omitted)	
Me.	46	-	-	-	-	-	-	-	-	-
N. H.	84	-	-	-	-	-	-	-	-	-
Vt.	37	-	-	-	-	-	-	-	-	-
Mass.	440	t	+	1	4	-	-	1	4	
R. I.	289	-	-	-	-	-	-	-	-	-
Conn.	1,075	0.5:	5	0.5:	5	-	-	1	10	
N. Y.	80,000	0.1:	80	0.5:	402	0	0	0.6:	482	
N. J.	2,338	-	-	-	-	-	-	-	-	-
Pa.	19,750	-	-	-	-	-	-	-	-	-
Del.	1,400	6	91	2	30	0	0	8	121	
Md.	770	10	88	2	17	0	0	12	105	
Va.	2,349	-	-	-	-	-	-	-	-	-
W. Va.	1,539	5	82	1	16	0	0	6	98	
N. C.	6,525	9	660	2	146	0	0	11	806	
S. C.	1,425	25	488	2	39	0	0	27	527	
Ga.	1,638	10	204	10	205	0	0	20	409	
Ohio	20,400	5	1,121	4	896	0	0	9	2,017	
Ind.	3,185	-	-	-	-	-	-	-	-	-
Ill.	4,900	1	50	2.5:	127	0	0	3.5:	177	
Mich.	51,000	t	+	4	2,125	0	0	4	2,125	
Wis.	279	1	3	1	2	0	0	2	5	
Minn.	88	-	-	-	-	-	-	-	-	-
Iowa	4,658	t	+	3	144	0	0	3	144	
Mo.	5,840	-	-	-	-	-	-	-	-	-
Nebr.	1,068	1	10	t	+	-	-	1	10	
Kans.	2,925	1.	29	-	-	-	-	1	29	
Ky.	1,094	30.	489	3	49	-	-	33	538	
Tenn.	1,496	-	-	5	78	-	-	5	78	
Ala.	825	5	44	1.5:	13	0	0	6.5:	57	
Miss.	281	5	15	2	6	0	0	7	21	
La.	36	-	-	-	-	-	-	-	-	-
Tex.	1,320	6.5:	100	8	123	0	0	14.5:	223	
Okla.	1,875	5	104	5	104	-	-	10	208	
Ark.	1,230	2.5:	32	1	12	0	0	3.5:	44	
Colo.	280	-	-	-	-	-	-	-	-	-
N. Mex.	520	1	5	3	16	0	0	4	21	
Ariz.	350	0	0	1	3	0	0	1	3	
Utah	615	-	-	-	-	-	-	-	-	-
Nev.	170	-	-	-	-	-	-	-	-	-
Idaho	240	-	-	-	-	-	-	-	-	-
Wash.	1,732	0	0	2	35	0	0	2	35	
Oregon	1,350	0	0	1	13	-	-	1	13	
Calif.	1,550,000	-	-	-	-	-	-	-	-	-
U. S.	1,777,462	0.21:	3,700	0.26:	4,610	0	0	0.47:	8,310	

Estimated reduction in yield of apple due to bitter rot (*Glomerella cin-
gulata*), blackrot (*Physalospora cydoniae*), blotch (*Phyllosticta
solitaria*), and cedar rust (*Gymnosporangium*), 1924.

State	: Production: Estimated reduction in yield due to disease									
	: 1924		: Bitter rot		: Blackrot		: Blotch		: Cedar rust	
	: Bushels	:	: Bushels:	:	: Bushels:	:	: Bushels:	:	: Bushels	:
	: (000	: %	: (000	: %	: (000	: %	: (000	: %	: (000	:
	: omitted):	:	: omitted):	:	: omitted):	:	: omitted):	:	: omitted):	:
Me.	: 3,241	: 0	: 0	: -	: -	: 0	: 0	: 0	: 0	:
N. H.	: 1,462	: t	: +	: t	: +	: 0	: 0	: t	: +	:
Vt.	: 924	: 0	: 0	: 1	: 10	: 0	: 0	: t	: +	:
Mass.	: 3,346	: t	: +	: 1	: 37	: 0	: 0	: t	: +	:
R. I.	: 324	: -	: -	: -	: -	: 0	: 0	: -	: -	:
Conn.	: 1,700	: -	: -	: 1	: 18	: 0	: 0	: 0.5	: 9	:
N. Y.	: 23,800	: t	: +	: 1	: 317	: 0	: 0	: t	: +	:
N. J.	: 2,300	: t	: +	: 0.8	: 21	: 1.5	: 41	: t	: +	:
Pa.	: 7,267	: t	: +	: 2	: 182	: t	: +	: 0.5	: 45	:
Del.	: 1,200	: 1	: 16	: 1.5	: 23	: t	: +	: 0.1	: 1	:
Md.	: 1,749	: 1.5	: 32	: 5	: 106	: 1.5	: 32	: 1	: 21	:
Va.	: 15,184	: 1	: 237	: 1	: 237	: t	: +	: 8	: 1,898	:
W. Va.	: 7,000	: t	: +	: 2	: 175	: 2	: 175	: 5	: 438	:
N. C.	: 6,500	: 5	: 445	: 3	: 267	: 3	: 267	: 2	: 178	:
S. C.	: 426	: 2.5	: 12	: 1	: 4	: -	: -	: 1	: 4	:
Ga.	: 1,388	: 4	: 68	: 4	: 68	: t	: +	: 0.5	: 8	:
Ohio	: 8,325	: 1	: 107	: 4	: 430	: 3	: 322	: 0.5	: 53	:
Ind.	: 2,800	: t	: +	: 4	: 128	: 2	: 64	: 0.5	: 16	:
Ill.	: 6,200	: 0.5	: 36	: 1	: 72	: 5	: 361	: 1	: 72	:
Mich.	: 7,333	: 0	: 0	: 1	: 90	: 0	: 0	: 0	: 0	:
Wis.	: 1,378	: 0	: 0	: 0	: 0	: 0	: 0	: t	: +	:
Minn.	: 979	: -	: -	: -	: -	: -	: -	: -	: -	:
Iowa	: 3,000	: -	: -	: 3	: 115	: 3	: 115	: 1	: 39	:
Mo.	: 5,300	: -	: -	: -	: -	: -	: -	: -	: -	:
N. Dak.	: 0	: 0	: 0	: -	: -	: -	: -	: t	: +	:
S. Dak.	: 150	: 1	: 2	: -	: -	: -	: -	: 1	: 2	:
Nebr.	: 1,162	: 0	: 0	: t	: +	: 1	: 15	: 2.5	: 37	:
Kans.	: 2,812	: t	: +	: t	: +	: 5	: 155	: 0.5	: 15	:
Ky.	: 6,075	: t	: +	: t	: +	: 8	: 771	: t	: +	:
Tenn.	: 4,500	: 2	: 114	: 1	: 57	: 10	: 569	: 2	: 114	:
Ala.	: 1,190	: 1	: 14	: 0.5	: 7	: 10	: 141	: t	: +	:
Miss.	: 315	: 2	: 7	: 1	: 3	: 1	: 3	: t	: +	:
La.	: 45	: -	: -	: -	: -	: -	: -	: -	: -	:
Texas	: 365	: 0.1	: +	: 0.1	: +	: 2	: 9	: -	: -	:
Okla.	: 1,575	: 0	: 0	: 5	: 114	: 10	: 228	: 1	: 23	:
Ark.	: 3,630	: t	: +	: 4	: 170	: 1.5	: 64	: 1.5	: 64	:
Mont.	: 574	: 0	: 0	: 0	: 0	: 0	: 0	: 0	: 0	:
Wyo.	: 35	: 0	: 0	: -	: -	: 0	: 0	: 0	: 0	:
Colo.	: 3,024	: 0	: 0	: -	: -	: 0	: 0	: 0	: 0	:
N. Mex.	: 720	: 0	: 0	: -	: -	: 0	: 0	: 0	: 0	:
Ariz.	: 70	: 0	: 0	: 0	: 0	: 0	: 0	: 0	: 0	:
Utah	: 650	: 0	: 0	: -	: -	: 0	: 0	: 0	: 0	:
Nev.	: 35	: 0	: 0	: -	: -	: 0	: 0	: 0	: 0	:
Idaho	: 2,520	: 0	: 0	: 0	: 0	: 0	: 0	: 0	: 0	:
Wash.	: 23,000	: 0	: 0	: 0	: 0	: 0	: 0	: 0	: 0	:
Oregon	: 6,500	: 0	: 0	: -	: -	: 0	: 0	: 0	: 0	:
Calif.	: 7,370	: 0	: 0	: -	: -	: 0	: 0	: 0	: 0	:
U. S.	: 179,443	: 0.49	: 1,090	: 1.20	: 2,651	: 1.51	: 3,332	: 1.38	: 3,037	:

Estimated reduction in yield of apple due to fireblight (Bacillus amylovorus), scab (Venturia inaequalis), and other diseases,
1924.

State	Estimated reduction in yield due to disease							
	Fireblight		Scab		Other diseases		Sum of traces: and no data:	All diseases
	Bushels:		Bushels:		Bushels:		Bushels:	Bushels
	%	(000 %	%	(000 %	%	(000 %	%	(000
	: omitted):	: omitted):	: omitted):	: omitted):	: omitted):	: omitted):	: omitted):	: omitted)
Me.	-	-	-	-	-	-	-	-
N. H.	t	+ : 1	15	-	-	5	78	6
Vt.	1	10 : 3	31	5	51	0	0	10
Mass.	1	37 : 5	186	2	74	1	37	10
R. I.	-	-	-	-	-	8	28	8
Conn.	0.5:	9 : 3	54	1	18	0	0	6
N. Y.	2	635 : 20	6,346	2	635	0	0	25
N. J.	t	+ : 12	326	1	27	0	0	15.3
Pa.	1.5:	136 : 15	1,362	1	91	0	0	20
Del.	1	16 : 10	157	10	157	0	0	23.6
Md.	5	106 : 3.5	74	-	-	0	0	17.5
Va.	t	+ : 18	4,271	8	1,898	0	0	36
W. Va.	t	+ : 6	525	5	437	0	0	20
N. C.	3	267 : 7	624	4	356	0	0	27
S. C.	1	5 : 1	5	1.5	7	0	0	8
Ga.	2.5:	42 : 6	101	1	17	0	0	18
Ohio	2	215 : 10	1,074	2	215	0	0	22.5
Ind.	0.2:	7 : 4	128	-	-	2	64	12.7
Ill.	2	144 : 2.5	180	2	144	0	0	14
Mich.	5	453 : 12	1,086	-	-	1	91	19
Wis.	1.5:	25 : 15	250	1	17	0	0	17.5
Minn.	4	44 : 3	33	3	33	1	11	11
Iowa	5	192 : 10	385	-	-	0	0	22
Mo.	-	-	-	-	-	12	722	12
N. Dak.	6	+ : 1	+	t	+	0	0	7
S. Dak.	7	12 : 4.5	7	t	+	0	0	13.5
Nebr.	2	29 : 5	74	10	148	1	15	21.5
Kans.	1.5:	47 : 1.5	47	1	31	0	0	9.5
Ky.	5	482 : 20	1,928	4	386	0	0	37
Tenn.	5	285 : 1	57	-	-	0	0	21
Ala.	2	28 : 2	28	t	+	0	0	15.5
Miss.	5	18 : t	+	1	4	0	0	10
La.	-	-	-	-	-	-	-	-
Texas	7	31 : 0	0	8	35	0	0	17.2
Okla.	5	114 : 5	114	5	114	0	0	31
Ark.	4	171 : t	+	4	171	0	0	15
Mont.	t	+ : t	+	-	-	1	5	1
Wyo.	-	-	-	-	-	-	-	-
Colo.	t	+ : 0	0	0	0	0	0	t
N. Mex.	t	+ : 2	20	25	246	-	-	27
Ariz.	2	1 : 0	0	4	3	-	-	6
Utah	-	-	-	-	-	-	-	-
Nev.	2	+ : -	-	-	-	4	2	6
Idaho	t	+ : t	+	5	134	1	26	6
Wash.	t	+ : t	+	5	1,210	0	0	5
Oregon	t	+ : t	+	5	342	-	-	5
Calif.	-	-	-	-	-	-	-	-
U. S.	: 1.61:	3,561 : 8.83:	19,488 : 3.17:	7,001 : 0.49:	1,079 : 18.68:	41,239		

: Production:		Estimated reduction in yield due to disease												
State	1924 Bushels (000 omitted)	Leaf curl		Brown rot		Yellow and little peach		Scab		Other diseases		Sum of traces and no data:		All diseases 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):	: % :	
Mo.	910	-	-	-	-	-	-	-	-	-	-	-	-	-
Kans.	231	3	2	0	-	0	0.5	1	0	0	0	4.5	10	10
Ky.	1,134	t	49	t	-	+	-	37	-	-	1	12	98	98
Tenn.	1,826	0.1	97	0	-	0	0.1	2	-	-	1	19	120	120
Ala.	1,425	t	162	0	-	0	1	16	1	16	0	0	194	194
Miss.	996	t	44	0	-	0	1	11	5	55	0	0	110	110
La.	325	0	18	0	-	0	t	+	5	18	0	0	36	36
Texas	3,000	1	51	0	-	0	3	102	6	203	0	0	390	390
Okla.	1,837	1	98	-	-	-	1	20	t	+	0	0	138	138
Ark.	2,800	2	228	-	-	-	3	97	2	65	0	0	455	455
Colo.	920	0	-	0	-	0	0	0	2	18	-	-	18	18
N. Mex.	34	t	1	0	-	0	-	-	25	9	0	0	10	10
Ariz.	45	4	0	0	-	0	0	0	5	2	0	0	4	4
Utah	750	-	-	0	-	0	-	-	-	-	-	-	-	-
Nev.	1	-	-	0	-	0	-	-	-	-	-	-	-	-
Idaho	102	t	0	0	-	0	0	0	1	2	0.5	+	2	2
Wash.	364	t	+	0	-	0	0	0	1	4	0.5	2	6	6
Oregon	189	1	+	0	-	0	0	0	2	3	-	-	5	5
Calif.	11,875	-	-	0	-	0	-	-	-	-	-	-	-	-
U. S.	51,679	1.47	840	4.19	2,392	0.18	101	1.24	707	2.14	1,241	0.19	89	9.41
														5,370

PEAR

Estimated reduction in yield of pear due to fireblight (Bacillus amylovorus), scab (Venturia pyrina), leafblight (Fabraea maculata), and other diseases, 1924

State	Estimated reduction in yield due to disease											
	Production:			Other			Sum of traces:			All		
	1924	Bushels	%	Leafblight	Scab	Fireblight	Other	Leafblight	Scab	Fireblight	Other	Sum of traces
		(000)	%	Bushels	Bushels	Bushels	Bushels	Bushels	Bushels	Bushels	Bushels	Bushels
		omitted		(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)
				omitted	omitted	omitted	omitted	omitted	omitted	omitted	omitted	omitted
Me.	12		-	-	-	-	-	-	-	-	-	-
N. H.	17		t	+	0.5	+	-	-	+	+	+	2.5
Vt.	12		1	+	2	+	-	-	0	0	0	4
Mass.	84		1	1	3	2	t	+	2	1	1	5
R. I.	12		-	-	-	-	-	-	-	+	+	4
Conn.	62		1	1	2	1	1	+	1	0	0	5
N. Y.	2,100		1	21	t	+	-	-	21	0	0	2
N. J.	624		t	+	3	+	3	163	-	0.5	4	23.5
Pa.	629		1	6	-	6	-	-	-	-	-	1
Del.	328		1.5	6	-	6	-	24	10	39	0	17.5
Md.	335		8.5	32	1	-	-	-	2	7	11.5	43
Va.	430		-	-	-	-	-	-	-	-	-	-
W. Va.	84		4	4	1	1	t	+	1	+	6	5
N. C.	273		20	70	-	-	-	-	2	7	22	77
S. C.	114		50	121	1	-	-	-	0	0	53	128
Ga.	232		50	257	t	-	0	5	26	0	55	283
Fla.	55		-	-	-	-	-	-	-	-	-	-
Ohio	326		3	11	3	-	2	-	7	0	8	28
Ind.	180		-	-	-	-	-	-	13	7	7	13
Ill.	410		7	30	t	+	t	+	0	0	7	30
Mich.	810		2	17	5	+	t	+	+	1	7	60
Wis.	15		t	+	t	+	t	0	+	+	1	+
Iowa	40		t	+	-	-	-	-	-	+	+	+

PLUM AND PRUNE

Estimated reduction in yield of plum and prune due to brownrot
(*Sclerotinia cinerea*), and other diseases, 1924.

State	Estimated reduction in yield due to disease			
	Sum of traces :			All diseases
	Brownrot	Other diseases:	and no data :	
	%	%	%	
Vt.	2	-	-	2
Mass.	5	2	-	7
Conn.	2	1	0	3
N. Y.	1	1	0	2
N. J.	15	-	0	15
Pa.	1.5	-	-	1.5
Del.	1	6	0	7
Md.	7	-	-	7
W. Va.	3	2	0	5
Ga.	2	1	0	3
Ohio	11	2	0	13
Ill.	5.5	1	0	6.5
Mich.	15	1	0	16
Wis.	10	t	0	10
Minn.	3	2	0	5
Iowa	25	t	0	25
N. Dak.	1	4	0	5
S. Dak.	2	2	0	4
Nebr.	5	2	0	7
Kans.	3	1	0	4
Ky.	4	2	0	6
Tenn.	5	-	-	5
Ala.	20	-	-	20
Miss.	2	1	0	3
Texas	1	4	0	5
Okla.	5	2	-	7
Ark.	7.5	1	0	8.5
N. Mex.	-	10	0	10
Ariz.	0	4	0	4
Idaho	0	7	0	7
Wash.	t	2	0	2
Oregon	t	3	0	3

CHERRY

Estimated reduction in yield of cherries due to brownrot (Sclerotinia cinerea), leafspot (Coccomyces hiemalis), and other diseases, 1924.

State	Estimated reduction in yield due to disease						
	Brownrot	Leafspot	Other diseases	Sum of traces and no data	All diseases		
	%	%	%	%	%	%	%
Mass.	5	1	-	-			6
Conn.	4	0	1	0			5
N. Y.	2	2	0.3	0			4.3
N. J.	10	5	-	0			15
Pa.	20	-	-	-			20
Del.	0.5	0.5	4	0			5
W. Va.	t	t	t	1			1
Ga.	4	t	1	0			5
Ohio	3	9	1	0			13
Ill.	5	1.5	0	0			6.5
Mich.	5	5	1	0			11
Wis.	1	t	2	0			3
Iowa	5	5	5	0			15
S. Dak.	-	-	t	-			8
Nebr.	3	5	-	0			8
Kans.	1	3	0.5	0			4.5
Ky.	t	4	-	-			4
Tenn.	2	15	-	0			17
Okla.	2	2	1	-			5
Ark.	2.5	4.5	2	0			10
Mont.	0	t	-	t			t
N. Mex.	1	-	15	0			16
Ariz.	0	0	0	0			0
Idaho	0	0	1	0			1
Wash.	t	t	2	0			2
Oregon	t	t	1	1			2

RASPBERRY

Estimated reduction in yield of raspberries due to mosaic and leafcurl (cause unknown), and other diseases, 1924.

State	Estimated reduction in yield due to disease			
	Mosaic and		Sum of traces	
	Leafcurl	Other diseases	and no data	All diseases
	%	%	%	%
Vt.	5	5	0	10
Mass.	15	2	0	17
Conn.	4	2	0	6
N. Y.	15	5	0	20
N. J.	20	6	0	26
Pa.	-	8	10	18
Del.	1	1	0	2
Md.	3	8	0	11
W. Va.	-	4	2	6
Ohio	-	2	4	6
Ind.	-	10	0	10
Ill.	0.75	6	0	6.75
Mich.	10	15	0	25
Wis.	6	10	0	16
Minn.	15	10	0	25
Iowa	8	22	0	30
N. Dak.	2	2	0	4
S. Dak.	t	-	0	t
Kans.	-	15	0	15
Ky.	-	10	0	10
Tenn.	-	10	0	10
Miss.	-	1	-	1
Texas	-	10	-	10
Okla.	-	5	-	5
Ark.	-	25	-	25
Mont.	t	1	t	1
N. Mex.	-	1	0	1
Ariz.	0	0	0	0
Idaho	5	5	0	10
Wash.	10	2	0	12
Oregon	t	2	-	2

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