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THE PLANT DISEASE REPORTER

Issued By

The Plant Disease Survey

Supplement 30

Crop Losses from Plant Diseases in the United States in 1922

December 1, 1923

BUREAU OF PLANT INDUSTRY

UNITED STATES DEPARTMENT OF AGRICULTURE

THE YEAR 1912

1912

THE YEAR 1912

1912

THE YEAR 1912

1912

THE YEAR 1912

WHEAT

Estimated reduction in yield of wheat due to scab (Fusarium sp.), leaf rust (Puccinia triticina), stem rust (Puccinia graminis), bunt (Tilletia laevis and T. tritici), loose smut (Ustilago tritici), and other diseases, 1922.

Production:		Estimated reduction in yield due to diseases																	
State	Bushels (000 omitted)	Scab			Leaf rust			Stem rust			Bunt			Loose smut			Other 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)	%	:
Me.	275	-	-	:	-	-	:	-	-	:	-	-	:	-	-	:	-	-	:
Vt.	189	-	-	:	-	-	:	-	-	:	-	-	:	-	-	:	-	-	:
Mass.	-	-	t	:	-	t	:	-	t	:	-	t	:	-	t	:	-	t	:
Conn.	-	-	t	:	-	t	:	-	t	:	-	t	:	-	t	:	-	t	:
N. Y.	9,014	149	3	:	299	t	:	-	t	:	-	t	:	100	4	:	398	3.5	:
N. J.	1,540	15	-	:	-	-	:	-	-	:	-	-	:	-	-	:	-	1	:
Pa.	25,444	1,462	4	:	1,170	t	:	-	t	:	-	t	:	877	1	:	293	13	:
Del.	1,766	19	2	:	37	t	:	-	t	:	-	t	:	9	2	:	37	5.5	:
Md.	9,537	331	5	:	551	0.5	:	-	1.5	:	-	1.5	:	331	0.5	:	55	13.5	:
Va.	10,375	58	5	:	581	t	:	-	1	:	-	1	:	314	1.5	:	174	13.7	:
W. Va.	2,760	110	18	:	663	t	:	-	t	:	-	t	:	110	1	:	37	25	:
N. C.	5,508	-	-	:	-	0	:	-	0	:	-	0	:	-	-	:	-	-	:
S. C.	1,320	-	10	:	148	0	:	-	0	:	-	1	:	15	-	:	-	11	:
Ga.	1,520	-	5	:	84	-	:	-	1	:	-	1	:	33	1	:	17	3	:
Ohio	35,644	2,510	5	:	2,510	2	:	-	1,004	t	:	-	15	15	:	-	17	3	:
Ind.	29,798	+	10	:	3,453	0.7	:	-	242	t	:	-	1,004	15	:	-	7,531	23	:
Ill.	55,432	1,360	10	:	6,802	0.5	:	-	340	2	:	-	1,036	t	:	-	+	13.7	:
Mich.	14,326	-	2	:	298	2	:	-	298	t	:	-	1,360	1	:	-	680	13.5	:
Wis.	3,006	+	1	:	32	5.1	:	-	164	t	:	-	+	-	:	-	-	4	:
Minn.	27,036	+	0.5	:	148	5	:	-	1,477	t	:	-	+	0.5	:	-	+	6.6	:
Iowa	16,867	0	t	:	+	1	:	-	174	t	:	-	+	2	:	-	739	8.5	:
Mo.	38,818	+	-	:	-	0	:	-	0	-	:	-	-	1	:	-	0	3	:
N. D.	123,234	+	1	:	1,433	10	:	-	14,330	t	:	-	-	1	:	-	392	-	:
S. D.	40,012	+	t	:	+	3	:	-	1,237	t	:	-	+	t	:	-	2,866	14	:

Estimated reduction in yield due to diseases

Production:		Estimated reduction in yield due to diseases															
State	Bushels (000 omitted)	Scab		Leaf rust		Stem rust		Bunt		Loose smut		Other diseases		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)	%		
Nebr.	59,838:	t	-	+	0.5:	301	-	-	-	-	-	-	-	-	0.5+	301	
Kans.	122,887:	t	+	1	0.3:	379	t	+	0.5:	632	-	1	1,264	+	8	3,539	
Ky.	7,475:	1	10	90	0	0	-	-	4	360	+	2	180	+	17	1,531+	
Tenn.	4,484:	1	15	54	t	+	1	54	t	+	+	-	-	+	17	918	
Ala.	218:	t	3	+	t	+	0	0	1	2	+	-	-	+	4	9	
Miss.	60:	0	2	0	t	+	0	0	t	+	+	-	-	+	2	1	
Tex.	9,992:	0	1	0	10	1,190	-	-	5	595	-	-	-	-	16	1,004	
Okla.	31,350:	0	5	0	-	-	-	-	0.5:	167	0.9:	301	-	-	6.4	2,145	
Ark.	1,118:	0	5	0	0	0	2	25	3	37	-	-	-	-	10	124	
Mont.	40,370:	0	t	0	0	0	-	-	t	+	+	-	-	+	+	+	
Wyo.	3,060:	0	t	0	0	0	-	-	-	+	-	-	-	+	+	+	
Colo.	21,776:	0	t	0	t	+	t	+	t	+	0:	0	-	+	+	+	
N. M.	21,885:	0	-	0	-	-	-	-	-	-	-	-	-	-	-	-	
Ariz.	1,274:	0	-	0	1	13	-	-	t	+	-	-	-	+	1	13	
Utah	5,682:	0	t	0	1	70	-	-	1	59	t:	+	-	+	2	180	
Nev.	550:	0	0	0	-	-	-	-	-	-	-	-	-	+	+	180	
Idaho	24,275:	0	0	0	t	+	8	2,271	1.5:	426	5	1,420	+	-	14.5+	4,117	
Wash.	32,444:	0	0	0	0	0	5	1,708	t	+	t	+	+	+	5	1,700	
Oreg.	17,744:	0	t	0	0	0	-	-	t	+	-	-	-	+	t	+	
Cal.	15,308:	0	t	+	t	+	0.5:	82	t	+	6	982	+	+	6.5+	1,064+	

U. S.	856,211	.6	6,158	2.5	23,107	2.3	21,274	.6	5,798	1.1	10,484	1.8	16,974	8.9	83,795
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Estimated reduction in yield due to diseases

Production:

State	1922 Bushels (000 omitted)	Smut		Ergot		Leaf rust		Stem rust		Other diseases		All diseases	
		: Bushels : (000 : omitted)	%	: Bushels : (000 : omitted)	%	: Bushels : (000 : omitted)	%	: Bushels : (000 : omitted)	%	: Bushels : (000 : omitted)	%	: Bushels : (000 : omitted)	%
Nebr.	2,106	-	-	-	-	-	t	-	-	-	t	-	t
Kans.	852	-	-	-	-	-	t	-	1	9	1	9	+
Ky.	230	0	t	+	t	+	0	0	-	-	t	-	+
Tenn.	180	0	0	0	t	+	t	+	t	+	t	+	+
Ala.	5	-	-	-	0.5	+	t	-	-	-	0.5	-	+
Miss.	---	-	-	-	t	+	t	+	-	-	t	-	+
Tex.	117	-	-	-	-	-	-	-	-	-	-	-	+
Okla.	310	-	-	-	t	+	0	0	0.5	2	0.5	2	+
Ark.	12	-	-	-	-	-	t	+	-	-	t	-	+
Mont.	1,827	-	-	-	-	-	-	-	-	-	-	-	-
Wyo.	294	-	-	-	-	-	-	-	-	-	-	-	-
Colo.	873	0	0	0	*	-	t	-	0	0	t	-	+
N. M.	8	-	-	-	-	-	0	0	-	-	-	-	-
Utah	120	-	*	-	0	0	t	+	-	-	t	+	+
Idaho	165	0	0	0	0	0	0	0	-	-	-	-	-
Wash.	169	0	0	0	0	0	0	0	-	-	-	-	-
Oreg.	444	-	-	-	0	0	0	0	-	-	-	-	-
Calif.	---	0	0	0	t	+	0	0	-	-	t	-	+
U. S.	95,497	226	0.3	302	0.2	214	0.2	147	1.	965	1.9	1,854	+

Estimated reduction in yield of barley due to stripe (Helminthosporium gramineum), loose smut (Ustilago nuda), covered smut (Ustilago hordei), leaf rust (Puccinia simplex), stem rust (Puccinia graminis), and other diseases, 1922.

[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, 1922.

Production:		Estimated reduction in yield due to diseases									
State	1922	Loose and		Stem rust		Grown rust		Other diseases		All diseases	
		Bushels	%	Bushels	%	Bushels	%	Bushels	%	Bushels	%
		(000 omitted)		:000 omitted:		:000 omitted:		:000 omitted:		:000 omitted:	
Me.	4,940	-	-	-	-	-	-	-	-	-	-
N. H.	684	7	-	-	-	-	-	-	1	7	200
Vt.	3,132	133	-	-	-	67	-	-	6	3+	3+
Mass.	340	3	t	+	t	+	-	-	1	+	+
R. I.	31	+	-	-	-	-	-	-	1	+	+
Conn.	308	6	-	-	1	3	-	-	3	+	9+
N. Y.	31,770	1,374	t	+	2.5	859	1	-	343	7.5+	2,570+
N. J.	2,232	46	-	-	-	-	-	-	2	46	46
Pa.	41,242	1,289	t	+	t	+	1	-	430	4	1,719+
Del.	161	2	t	+	t	+	1	-	2	4	4+
Md.	1,740	73	t	+	t	+	t	-	+	73+	73+
Va.	3,320	177	t	+	1	35	-	-	+	212+	212+
W. Va.	4,600	192	t	+	t	+	t	-	+	192+	192+
N. C.	3,738	-	0	0	-	-	-	-	-	-	-
S. C.	9,744	263	-	-	-	-	-	-	527	7.5	790
Ca.	8,532	226	t	+	3	271	-	-	-	5.5+	497+
Fla.	481	-	-	-	-	-	-	-	-	-	-
Ohio	39,744	908	+0.5	202	1	403	-	-	-	1.5	605+
Ind.	28,770	6,112	t	+	2	606	-	-	-	5	1,514+
Ill.	110,010	1,030	t	+	4	4,889	1	-	1,222	10	12,223+
Mich.	19,434	1,047	2	1,030	-	-	-	-	-	4	2,060
Wis.	101,558	1,047	1	1,047	1	1,047	t	-	+	3	3,141+
Minn.	142,746	3,021	2	3,021	t	+	1.5	-	2,266	5.5+	8,308+
Iowa	222,851	4,691	1	2,346	1	2,346	1	-	2,346	5	11,729
Mo.	17,872	553	t	+	-	-	-	-	-	3	553+

Estimated reduction in yield due to diseases

Production:

State	1922 Bushels (000 omitted)	Loose and covered smuts %	Stem rust Bushels %	Crown rust Bushels %	Other diseases Bushels %	All diseases Bushels %
N. D.	78,804	2	4,354	435	1,742	8,273
S. D.	74,400	2	767	+	-	2,301+
Nebr.	56,106	-	+	+	-	+
Kans.	28,386	3	+	+	1,543	2,466+
Ky.	4,282	-	0	+	476	476+
Tenn.	4,351	3	0	+	-	135+
Ala.	5,540	3	+	3	-	324+
Miss.	2,660	3	0	10	-	398
La.	1,249	t	0	10	43	187+
Tex.	33,465	5	-	15	-	8,366
Okl.	20,000	1.5	-	t	+	457
Ark.	6,336	6	+	8	151	1,207-
Mont.	19,200	-	0	-	-	-
Wyo.	5,056	-	0	-	-	-
Colo.	4,625	t	+	0	0	-
N. M.	930	-	-	-	-	-
Ariz.	620	4	+	-	-	26+
Utah	3,354	5	+	-	-	177+
Nev.	112	-	-	-	-	-
Idaho	6,156	5	+	0	342	624+
Wash.	9,959	0.5	0	0	-	40
Oreg.	6,675	0.5	+	5	34	68+
Calif.	5,250	t	55	3	164	219+
U. S.	1,215,496	2.3	12,522	18,466	11,631	72,297

Estimated reduction in yield of corn due to smut (*Ustilago zeae*), leaf rust (*Puccinia sorghi*), brown spot (*Physoderma zeae-maydis*), root and ear rots (*Fusarium* spp.) and other diseases, 1922.

State	Production :		Estimated reduction in yield due to diseases							
	1922 :									
	Bushels :		Smut :		Leaf rust :		Brown spot			
	(000	% :	Bushels	% :	Bushels	% :	Bushels	% :	Bushels	
	omitted)	:	(000	:	(000	:	(000	:	(000	
	:	:	omitted)	:	omitted)	:	omitted)	:	omitted)	
Me.	1,312	t	+	-	-	-	0	-	0	
N. H.	1,032	t	+	-	-	-	0	-	0	
Vt.	3,444	2	70	-	-	-	0	-	0	
Mass.	2,600	t	+	t	+	0	-	0	0	
R. I.	560	-	-	-	-	0	-	0	0	
Conn.	3,465	1.5	55	-	-	0	-	0	0	
N. Y.	28,329	3	934	t	+	0	-	0	0	
N. J.	9,912	1.5	157	-	-	-	-	-	-	
Pa.	69,212	3	2,359	t	+	0	-	0	0	
Del.	5,439	0.5	30	t	+	-	-	-	-	
Md.	25,400	2	587	t	+	t	-	+	+	
Va.	53,312	1	573	0	0	-	-	0	0	
W. Va.	20,536	2	432	t	+	0	-	0	0	
N. C.	50,520	-	-	-	-	-	-	-	-	
S. C.	29,899	2.5	787	-	-	-	-	-	-	
Ga.	52,620	2	1,108	-	-	-	-	-	-	
Fla.	10,500	1	106	-	-	-	-	-	-	
Ohio	149,097	3	5,083	t	+	1	-	1,694	-	
Ind.	170,305	0.3	590	-	-	-	-	-	-	
Ill.	313,074	2	6,996	-	-	0.5	-	1,749	-	
Mich.	60,716	2	1,239	t	+	-	-	-	-	
Wis.	98,300	t	+	t	+	0	-	0	0	
Minn.	131,307	t	+	-	-	-	-	-	-	
Iowa	455,535	2	9,692	t	+	0	-	0	0	
Mo.	175,275	-	-	-	-	-	-	-	-	
N. D.	18,700	3	578	t	+	0	-	0	0	
S. D.	110,038	3	3,403	0	0	0	-	0	0	
Nebr.	182,400	-	-	-	-	-	-	-	-	
Kans.	98,391	5	5,528	-	+	t	-	+	+	
Ky.	88,066	0.5	452	0	0	-	-	-	-	
Tenn.	75,440	2	1,640	0	0	t	-	+	+	
Ala.	50,932	1	542	-	-	-	-	-	-	
Miss.	51,065	2	1,216	t	+	1	-	608	-	
La.	29,002	t	+	1	341	1	-	341	-	
Tex.	114,580	2	2,338	-	-	-	-	-	-	
Okla.	57,600	-	-	-	-	-	-	-	-	
Ark.	45,825	3	1,494	t	+	t	-	+	+	
Mont.	5,475	-	-	-	-	0	-	0	0	
Wyo.	1,560	-	-	-	-	0	-	0	0	
Colo.	18,320	2	374	-	-	0	-	0	0	
N. M.	2,475	-	-	-	-	0	-	0	0	
Ariz.	1,170	*-	-	-	-	0	-	0	0	
Utah	780	1.5	12	-	-	0	-	0	0	
Nev.	21	-	-	-	-	0	-	0	0	
Idaho	1,976	t	+	0	0	0	-	0	0	
Wash.	2,747	t	+	0	0	0	-	0	0	
Oreg.	2,277	t	+	-	-	0	-	0	0	
Calif.	4,176	5	240	t	+	0	-	0	0	
U.S.	2,830,712	1.6	48,615	t	341	.1	-	4,392	-	

Estimated reduction in yield of corn due to smut (*Ustilago zeae*), leaf rust (*Puccinia sorghi*), brown spot (*Thyrsoderma zeae-maydis*), root and ear rots (*Fusarium* spp.) and other diseases, 1922.

:Production:		Estimated reduction in yield due to diseases							
State :	1922 :	Root rots :		Ear rots :		Other diseases:		All diseases	
:Bus. (000 :	% :	:Bus. (000 :	% :	:Bus. (000 :	% :	:Bus. (000 :	% :	:Bus. (000 :	% :
: omitted) :	:	: omitted) :	:	: omitted) :	:	: omitted) :	:	: omitted) :	:
Me. :	1,312 :	- :	- :	- :	- :	- :	- :	t :	- :
N. H. :	1,032 :	- :	- :	- :	- :	- :	- :	t :	- :
Vt. :	3,444 :	- :	- :	- :	- :	- :	- :	2 :	70 :
Mass. :	2,600 :	0.5 :	13 :	0.5 :	13 :	- :	- :	1 +:	26+ :
R. I. :	560 :	- :	- :	- :	- :	- :	- :	- :	- :
Conn. :	3,465 :	1 :	36 :	0.5 :	18 :	2 :	73 :	5 :	182 :
N. Y. :	28,329 :	4 :	1,245 :	2 :	623 :	- :	- :	9 +:	2,802+ :
N. J. :	9,912 :	3 :	313 :	0.6 :	63 :	- :	- :	5.1 :	533 :
Pa. :	69,212 :	5 :	3,933 :	3 :	2,353 :	1 :	787 :	12 :	9,438 :
Del. :	5,439 :	6 :	365 :	3 :	182 :	1 :	61 :	10.5 :	638 :
Md. :	25,400 :	10 :	2,936 :	1.5 :	441 :	- :	- :	13.5 :	3,964 :
Va. :	53,312 :	2 :	1,147 :	3 :	1,720 :	1 :	573 :	7 :	4,013 :
W. Va. :	20,536 :	1 :	216 :	2 :	432 :	t :	+	5 +:	1,080+ :
N. C. :	50,520 :	- :	- :	- :	- :	- :	- :	- :	- :
S. C. :	29,899 :	1.5 :	472 :	- :	- :	1 :	315 :	5 :	1,574 :
Ga. :	52,620 :	- :	- :	3 :	1,662 :	- :	- :	5 :	2,770 :
Fla. :	10,500 :	- :	- :	- :	- :	- :	- :	1 :	106 :
Ohio :	149,097 :	2 :	3,389 :	4 :	6,777 :	2 :	3,389 :	12 +:	20,332+ :
Ind. :	176,305 :	6 :	11,793 :	4 :	7,862 :	- :	- :	10.3 +:	20,245 :
Ill. :	313,074 :	7 :	24,486 :	- :	- :	1 :	3,498 :	10.5 :	36,729 :
Mich. :	60,716 :	t :	+	- :	- :	- :	- :	2 +:	1,239+ :
Wis. :	98,300 :	0.5 :	496 :	0.5 :	496 :	t :	+	1 +:	992+ :
Minn. :	131,307 :	- :	- :	- :	- :	1 :	1,326 :	1 +:	1,326+ :
Iowa :	455,535 :	- :	- :	4 :	19,384 :	- :	- :	6 +:	29,076+ :
Mo. :	175,275 :	- :	- :	- :	- :	- :	- :	- :	- :
N. D. :	18,700 :	t :	+	t :	+	- :	- :	3 +:	578+ :
S. D. :	110,038 :	- :	- :	- :	- :	- :	- :	3 :	3,403 :
Nebr. :	182,400 :	- :	- :	- :	- :	- :	- :	- :	- :
Kans. :	98,391 :	1 :	1,106 :	3 :	3,317 :	2 :	2,211 :	11 +:	12,162+ :
Ky. :	88,060 :	- :	- :	2 :	1,806 :	- :	- :	2.5 :	2,258 :
Tenn. :	75,440 :	5 :	4,100 :	1 :	820 :	- :	- :	8 +:	6,560+ :
Ala. :	50,932 :	5 :	2,709 :	- :	- :	- :	- :	6 :	3,251 :
Miss. :	51,065 :	7 :	4,255 :	5 :	3,040 :	1 :	608 :	16 :	9,727 :
La. :	29,002 :	5 :	1,706 :	8 :	2,730 :	- :	- :	15 +:	5,118+ :
Tex. :	114,580 :	- :	- :	- :	- :	- :	- :	2 :	2,338 :
Okla. :	57,600 :	- :	- :	- :	- :	- :	- :	- :	- :
Ark. :	45,825 :	1 :	498 :	3 :	1,494 :	1 :	498 :	8 +:	3,984+ :
Mont. :	5,475 :	- :	- :	- :	- :	- :	- :	- :	- :
Wyo. :	1,560 :	- :	- :	- :	- :	- :	- :	- :	- :
Colo. :	18,320 :	0 :	0 :	0 :	0 :	0 :	0 :	2 :	374 :
N. M. :	2,475 :	- :	- :	- :	- :	- :	- :	- :	- :
Ariz. :	1,170 :	- :	- :	- :	- :	- :	- :	- :	- :
Utah :	781 :	- :	- :	- :	- :	- :	- :	1.5 +:	12 :
Nev. :	21 :	- :	- :	- :	- :	- :	- :	- :	- :
Idaho :	1,976 :	t :	+	0 :	0 :	- :	- :	t +:	+
Wash. :	2,747 :	0 :	0 :	0 :	0 :	- :	- :	t +:	+
Oreg. :	2,277 :	- :	- :	- :	- :	- :	- :	t +:	+
Calif. :	4,176 :	5 :	240 :	3 :	144 :	- :	- :	13 :	624 :
U. S. :	2,890,712 :	2.1 :	65,454 :	1.8 :	55,383 :	4 :	13,339 :	6 :	187,524 :

POTATO

Estimated reduction in yield of potatoes due to mosaic, leaf roll, late blight (*Phytophthora infestans*), Rhizoctonia (*Rhizoctonia solani*), and black leg (*Bacillus atrosepcticus*), 1922.

Production:		Estimated reduction in yield due to diseases											
State	Bushels (000 omitted)	Mosaic		Leaf roll		Late blight		Rhizoctonia		Black leg			
		Bushels	%	Bushels	%	Bushels	%	Bushels	%	Bushels	%		
		:000 omitted:	:	:000 omitted:	:	:000 omitted:	:	:000 omitted:	:	:000 omitted:	:	:000 omitted:	
Me.	21,600	5	1,242	1	248	5	1,242	1	248	1	248	+	248
N. H.	1,400	5	99	5	99	15	296	1	20	t	20	-	+
Vt.	3,000	10	451	2.5	113	15	677	1	45	*	45	+	+
Mass.	2,610	10	360	5	180	10	360	.5	18	t	18	+	+
R. I.	270	6	18	-	-	6	18	-	-	*	-	-	-
Conn.	3,360	1	45	1	45	6	272	.5	23	.5	23	+	23
N. Y.	37,400	5	2,812	5	2812	7	3,937	5	2,812	t	2,812	+	+
N. J.	16,435	1	188	1.5	282	3	563	t	+	*	+	-	+
Pa.	28,512	2	920	15	6,898	5	2,299	3	1,380	2	1,380	+	920
Del.	960	*	-	1	10	+	+	-	-	*	-	-	+
Md.	5,151	2	120	2	120	2	120	2	120	t	120	+	+
Va.	16,585	3	585	2	390	t	+	3	585	2	585	+	390
W. Va.	4,851	*	-	-	-	2	126	t	+	t	+	+	+
N. C.	4,512	-	-	-	-	-	-	-	-	-	-	-	+
S. C.	2,508	t	+	t	+	2	55	-	-	t	-	+	+
Ga.	1,700	-	-	-	-	1	18	-	-	-	-	-	+
Fla.	2,600	*	-	-	-	*	-	t	+	-	+	-	+
Ohio	11,214	*	-	7	1050	t	-	3	467	-	467	-	+
Ind.	5,624	.5	32	5	320	0	0	t	+	t	+	+	+
Ill.	7,497	t	+	-	-	0	0	t	+	-	+	-	+
Mich.	37,842	3	1,747	5	2,911	2	1,164	5	2,911	t	2,911	+	+
Wis.	40,672	t	+	t	+	t	+	2	924	t	924	+	+
Minn.	43,740	1	512	1	512	0	0	2	1,023	2	1,023	+	1,023
Iowa	8,460	*	-	-	-	0	0	2	238	-	238	+	+
Mo.	5,400	5	338	-	-	0	0	5	338	t	338	+	+
N. D.	17,820	t	+	-	-	0	0	3	604	2	604	+	403

State	Production: 1922	Estimated reduction in yield due to diseases									
		Mosaic		Leaf roll		Late blight		Rhizoctonia		Black leg	
		% : Bushels :000 omitted	% : Bushels :000 omitted	% : Bushels :000 omitted	% : Bushels :000 omitted	% : Bushels :000 omitted	% : Bushels :000 omitted	% : Bushels :000 omitted	% : Bushels :000 omitted	% : Bushels :000 omitted	% : Bushels :000 omitted
S. D.	8,580	-	-	-	-	-	-	-	-	1	110
Nebr.	11,676	-	-	0	-	0	-	-	-	-	-
Kans.	4,160	.5	-	0	-	0	15	-	-	2	105
Ky.	4,720	10	26	0	3,078	0	4	411	0	0	0
Tenn.	2,560	3	84	5	-	141	-	-	1	28	28
Ala.	3,840	-	-	-	-	-	-	-	0	0	0
Miss.	1,360	10	158	0	-	0	-	-	-	0	0
Ia.	1,755	25	627	0	-	0	t	-	0	0	0
Tex.	2,418	t	+	0	-	0	-	-	-	-	-
Okla.	2,720	-	-	0	-	0	-	-	-	-	+
Ark.	2,380	10	305	0	-	0	t	-	-	-	-
Mont.	5,796	-	-	0	-	0	-	-	+	2	118
Wyo.	2,530	-	-	0	-	0	-	-	-	-	-
Colo.	18,460	-	-	0	-	0	-	-	-	-	-
N. M.	200	-	-	0	-	0	-	-	-	-	-
Ariz.	510	t	+	0	-	0	-	-	-	-	-
Utah	4,137	7	351	0	-	0	5	29	*	-	-
Nev.	920	-	-	0	-	0	4	201	2.5	-	125
Idaho	15,910	10	-	0	658	0	-	-	-	-	-
Wash.	9,425	10	2,195	0	-	0	8	1,756	.5	-	110
Oreg.	5,145	10	1,224	t	+	t	8	979	t	+	+
Calif.	10,260	-	686	-	-	-	8	549	t	-	-
U. S.	451,185	2.8	16,151	3.5	19,766	2	2.9	11,288	.6	3,603	

POTATO (Continued)

475

Estimated reduction in yield of potatoes due to Fusarium wilt (Fusarium oxysporum), tip-burn and hopper-burn, early blight (Macrosporium solani), and other diseases, 1922.

State	Estimated reduction in yield due to diseases									
	Production		Fusarium wilt		Tip-burn and		Early blight		Other diseases	
	Bushels	:000 omitted:	%	Bushels	%	Bushels	%	Bushels	%	Bushels
Me.	21,600	0	0	0	-	-	-	-	13	3,228
N. H.	1,400	0	0	0	-	-	-	3	29	573+
Vt.	3,000	0	0	0	2	90	135	-	33.5	1,511
Mass.	2,610	t	t	+	t	+	2	72	27.5+	990+
R. I.	270	-	-	-	-	-	-	-	12	36+
Conn.	3,360	-	-	-	10	454	91	5	227	1,180
N. Y.	37,400	1.5	844	5	5	2,812	+	5	33.5+	18,841+
N. J.	16,435	*	-	1	t	188	+	6	127	2,348+
Pa.	28,512	3	1,380	4	1	1,839	460	3	38	17,476
Del.	960	-	-	4	4	42	16	1	10	78
Md.	5,151	.5	30	1	1.5	60	30	4	14	843+
Va.	16,585	-	-	1	.5	195	195	3	15	2,925+
W. Va.	4,851	-	-	20	t	1,260	+	1	23	1,449+
N. C.	4,512	-	-	1	-	-	-	-	-	-
S. C.	2,508	t	+	1	t	27	+	5	8	218+
Ga.	1,700	-	-	-	1	-	18	1.5	3.5	62
Fla.	2,600	*	-	-	-	-	-	-	-	-
Ohio	11,214	5	779	12	t	1,869	+	1	28	4,361+
Ind.	5,624	.5	32	5	t	320	+	1	12	768+
Ill.	7,497	-	-	3	1	237	79	1	5	395+
Mich.	37,842	2	-	10	3	5,822	1,747	5	35	20,377+
Wis.	40,672	0	1,164	5	t	2,311	+	5	12	5,546+
Minn.	43,740	.5	0	6	t	3,069	+	2	14.5+	7,418
Iowa	8,460	6	256	15	t	1,787	+	6	29	3,455+
Mo.	5,400	-	-	10	-	675	-	-	20	1,351+
N. D.	17,820	2	403	-	.5	-	101	4	11.5+	2,316+

State	Production 1922	Estimated reduction in yield due to diseases									
		Fusarium wilt		Tip-burn and hopper-burn		Early blight		Other diseases		All diseases	
	Bushels :000 omitted:	%	Bushels :000 omitted:	%	Bushels :000 omitted:	%	Bushels :000 omitted:	%	Bushels :000 omitted:	%	Bushels :000 omitted:
S. D.	8,580	2	220	10	1,100	t	+	6	660	22	2,420+
Nebr.	11,676	-	-	-	-	-	-	4	487	4	487
Kans.	4,160	-	-	*	-	0.5	-	3	158	21	1,105+
Ky.	4,720	1	103	2	205	7	718	-	-	54	5,541
Tenn.	3,560	-	-	-	-	-	-	-	-	9	253
Ala.	3,840	-	-	-	-	-	-	-	-	-	-
Miss.	1,360	1	16	1	16	1	16	1	16	14	222
Ill.	1,755	0	0	2	50	t	+	3	75	30+	752
Tex.	2,418	1	25	*	-	t	+	4	102	5	127+
Okla.	2,720	-	-	-	-	-	-	-	275	22+	671+
Ark.	2,380	t	+	3	91	0	0	9	-	2	118
Mont.	5,796	-	-	-	-	-	-	-	-	-	-
Wyo.	2,530	-	-	-	-	-	-	-	-	-	-
Colo.	18,460	-	-	-	-	-	-	-	-	-	-
N. M.	200	-	-	-	-	-	-	-	-	-	-
Ariz.	510	-	-	-	-	-	-	-	-	-	-
Utah	4,137	3.5	175	-	-	0.5	25	6	34	11	63+
Nev.	920	-	-	-	-	-	-	-	-	17.5	877
Idaho	15,910	1	219	t	+	t	+	5	1,097	27.5+	6,035+
Wash.	9,425	t	+	-	-	0	0	5	612	23	2,815+
Oreg.	5,145	t	+	t	+	t	+	7	480	25	1,715+
Calif.	10,260	-	-	-	-	-	-	-	-	-	-
U. S.	451,185	1.1	6,361	4.3	24,519	.6	3,657	3.3	18,797	21.1	120,943

Estimated reduction in yield of sweet potatoes due to stem rot (*Fusarium hypoxysporum* and *F. batatas*), foot rot (*Plenodomus destruens*), black rot (*Sphaeronema fimbriatum*), storage rots, pox (*Cystospora batata*), and other diseases, 1922.

Production:		Estimated reduction in yield due to diseases														
State	1922 Bushels (000 omitted)	Stem rot		Foot rot		(Field losses)		Storage rots		Pox		Other 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):	%			
N. J.	3,500	20	1,037	t	+	2	104	9	467	0.5	26	1	52	32.5	1,686	+
*Pa.	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Del.	1,720	6	115	-	-	5	10	-	-	1.5	29	2	38	10	192	-
Md.	1,530	4.5	74	t	+	1	16	-	-	0.5	8	1	16	7	114	+
Va.	6,210	5	388	-	-	5	388	10	776	t	+	-	-	20	1,552	+
*W. Va.	402	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*N. C.	12,430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S. C.	9,568	t	+	t	+	0.5	50	2	200	-	-	2	200	4.5	450	+
Ga.	12,616	0.5	74	-	-	2	295	10	1,476	-	-	2	295	14.5	2,440	-
*Fla.	2,720	*	-	-	-	*	-	-	-	-	-	-	-	-	-	-
Ohio	360	t	+	-	-	-	-	-	-	-	-	-	-	t	+	+
Ind.	375	1	4	-	-	t	+	4	16	-	-	-	-	5	20	+
Ill.	855	-	-	-	-	*	-	1	9	-	-	-	-	1	9	-
Iowa	440	7	45	0	0	5	32	20	130	-	-	-	-	32	207	-
Mo.	1,330	10	148	-	-	-	-	-	-	-	-	-	-	10	148	-
Kans.	416	15	79	t	+	2	11	2	11	2	11	t	+	21	112	+
Ky.	2,020	t	+	-	-	15	551	30	1,102	0	0	-	-	45	1,653	+
Tenn.	4,180	0.5	24	-	-	10	483	3	145	-	-	t	+	13.5	652	+
*Ala.	13,490	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miss.	11,445	12	2,251	-	-	5	938	20	3,752	*	-	2	375	39	7,316	-
La.	7,820	t	+	0	0	1	95	15	1,431	t	+	2	191	18	1,717	+
Tex.	8,715	-	-	-	-	3	331	10	1,103	1	110	7	772	21	2,316	-
*Okla.	2,052	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ark.	3,760	2	92	0	0	1	46	12	550	t	+	3	138	18	826	+
N. M.	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ariz.	300	t	+	-	-	t	+	-	-	-	-	5	16	5	16	+
*Calif.	880	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U. S.	109,544	#4.4	4,331	:-	-	#3.4	3,350	11.5	11,168	#	2	184	#2.1	2,093	21.49	21,126

* - Prod. omitted from figures from which percentage loss for U.S. is calculated.

- Does not include losses for (Pa., W. Va., N.C., Fla., Ala., Okla., N.M., Calif.) states marked *.

Estimated percentage reduction in yield of tomatoes due to Septoria blight (*Septoria lycopersici*), Fusarium wilt (*Fusarium lycopersici*), bacterial wilt (*Bacillus solanacearum*), early blight (*Macrosporium solani*), and other diseases, 1922. (Production figures not available.)

Estimated percentage reduction in yield due to diseases						
State :	Septoria blight	Fusarium wilt	Bacterial wilt	Early blight	Other diseases	All diseases
Me. :	-	-	0	-	-	-
N. H. :	-	-	0	t	1	1 +
Vt. :	t	-	0	-	-	t
Mass. :	t	t	0	t	5	5 +
R. I. :	-	-	0	-	-	-
Conn. :	2	1	0	.5	1	4.5
N. Y. :	2	2	0	10	15	29
N. J. :	5	1	-	3	20	29
Pa. :	2	1	0	-	6	9
Del. :	45	0.5	-	-	10	55.5
Md. :	30	*	t	t	10	40 +
Va. :	30	t	t	2	5	37 +
W. Va. :	10	t	t	10	13	33 +
N. C. :	-	-	-	-	-	-
S. C. :	10	3	1	-	11	25
Ga. :	3	2	*	-	6	11
Fla. :	-	-	*	-	-	-
Ohio :	t	12	-	*	5	17 +
Ind. :	3	4	*0	*	7	14
Ill. :	t	10	-	4	3	17 +
Mich. :	5	t	0	t	1	6 +
Wis. :	t	*0	0	t	t	t
Minn. :	t	0	0	t	1	1 +
Iowa :	-	-	0	*	10	10
Mo. :	2	20	-	-	10	32
N. D. :	-	-	0	-	-	-
S. D. :	-	-	0	-	2	2
Nebr. :	-	-	-	-	-	-
Kans. :	3	7	-	*	1	11
Ky. :	60	6	-	0	5	71
Tenn. :	3	10	-	2	5	20
Ala. :	-	-	-	-	-	-
Miss. :	t	15	-	3	12	30 +
La. :	0	20	1	1	10	32
Tex. :	2	8	t	1	3	14 +
Okla. :	-	-	-	-	-	-
Ark. :	t	20	-	t	5	25 +
Mont. :	-	-	0	-	-	-
Wyo. :	-	-	0	-	-	-
Colo. :	-	-	0	-	-	-
N. M. :	-	-	-	-	5	5
Ariz. :	0	1	1	-	4	6
Utah :	0	*	0	-	1	4
Nev. :	-	-	0	-	3	3
Idaho :	0	0	0	0	10	10
Wash. :	0	0	0	*0	6	6
Orég. :	-	0	0	-	6	6
Calif. :	-	-	0	-	5	5

DRY BEANS

Estimated reduction in yield of dry beans due to anthracnose (*Colletotrichum lindemuthianum*),
bacterial blight (*Bacterium phaseoli*), mosaic, root rots, and other diseases,
1922

State	Production: 1922 Bushels (000 omitted)	Estimated reduction in yield due to diseases											
		Anthracnose			Bacterial blight			Mosaic			Root rots		
		%	Bushels (000 omitted)	%	Bushels (000 omitted)	%	Bushels (000 omitted)	%	Bushels (000 omitted)	%	Bushels (000 omitted)	%	Bushels (000 omitted)
N. H.	-	:25	+	*	-	-	-	-	-	-	-	:25	+
Vt.	-	:5	+	:10	+	*	-	-	1	-	+	:16	+
Mass.	-	:3	+	:1	+	:t	+	+	1	+	+	:5	+
Conn.	-	:1	+	:3	+	:5	+	+	5	+	+	:5	+
N. Y.	1,302	:3	45	:4	59	:2	30	:3	45	:0.5	7	:12.5	186
Pa.	-	:6	+	:4	+	:2	+	+	+	+	+	:15	+
Del.	-	:5	+	:1	+	*	-	-	-	:0.5	+	:2	+
Md.	-	-	-	:1.5	+	:t	+	+	+	+	+	:1.5	+
Va.	-	:2	+	:1	+	:t	-	+	+	+	+	:4	+
W. Va.	-	:4	+	:t	+	-	-	+	+	1	+	:5	+
S. C.	-	:t	+	:2	+	-	-	+	+	2	+	:4	+
Ga.	-	:1	+	:1	+	-	-	-	-	5	+	:7	+
Ohio	-	:4	+	:2	+	-	-	-	-	2	+	:8	+
Ind.	-	-	-	:2	+	:3	+	+	-	-	-	:5	+
Ill.	-	:t	+	:t	+	-	-	+	+	-	+	:5	+
Mich.	4,809	:2	117	:10	587	:1	59	:5	293	:t	+	:18	1,056+
Wis.	76	:1	1	:1	1	:t	+	+	0	:t	+	:2	2+
Minn.	-	:t	+	:2	+	:2	+	+	+	-	+	:4	+
Iowa	-	:5	+	:2.5	+	:2	+	+	-	-	-	:5	+
Mo.	-	:3	+	:0	+	-	-	-	-	-	-	:3	+
N. D.	-	:t	+	:0	+	-	-	-	-	-	-	:t	+
S. D.	-	:5	+	-	+	-	-	-	-	-	-	:5	+
Tenn.	-	:2	+	:2	+	:1	+	+	-	-	-	:5	+
Miss.	-	:5	+	:3	+	:1	+	+	1	+	+	:11	+

: Production:		: Estimated reduction in yield due to diseases														
State	: Bushels (000 omitted)	: Anthracnose			: Bacterial blight			: Mosaic			: Root rots			: Other diseases		
		: Bushels			: Bushels			: Bushels			: Bushels			: Bushels		
		%	: (000 o- :mitted)	%	: (000 o- :mitted)	%	: (000 o- :mitted)	%	: (000 o- :mitted)	%	: (000 o- :mitted)	%	: (000 o- :mitted)	%	: (000 o- :mitted)	
La.	-	1	+	3	+	t	+	t	+	2	+	6	+	+		
Tex.	-	4	-	t	+	-	-	-	-	15	+	15	+	+		
*Colo.	405	*	-	*	-	-	-	-	-	-	-	-	-	-		
*N. M.	135	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ariz.	24	-	+	1	+	-	-	-	-	5	+	6	+	+		
Utah	-	-	-	2	-	1	+	-	-	-	-	1	+	+		
Idaho	364	0	0	0	0	5	19	-	-	t	+	5	+	19+		
Wash.	-	0	0	0	0	2	+	-	-	5	+	7	+	+		
Oreg.	-	*	-	t	+	10	+	-	-	-	-	10	+	+		
*Calif.	4,778	-	-	-	-	-	-	-	-	-	-	-	-	-		
U. S.	11,893	#2	163	#8.3	647	#1.4	108	#4.3	338	#0.1	7	#16.1	1,263			

* - No loss estimates received; not included in calculations for U. S. Loss.

- Does not include losses in states marked *.

COTTON

Estimated reduction in yield of cotton due to anthracnose (*Colletotrichum gossypii*), angular leaf spot (*Bacterium malvacearum*), Fusarium wilt (*Fusarium vasinfectum*), root knot (*Heterodera radicicola*), and other diseases, 1922.

Production:		Estimated reduction in yield due to disease											
1922		Anthracnose		Angular leaf spot		Fusarium wilt		Root knot		Other diseases		All diseases	
State	Bales (000)	Bales	%	Bales	%	Bales	%	Bales	%	Bales	%	Bales	%
omitted	omitted	omitted	omitted	omitted	omitted	omitted	omitted	omitted	omitted	omitted	omitted	omitted	omitted
Va.	25	1	4	+	1	+	+	+	+	-	-	2	+
*N. C.	852	-	-	-	-	-	-	-	-	-	-	-	-
S. C.	530	1	6	+	5	29	-	-	-	2	2	11	8
Ga.	725	1	8	24	2	16	2	16	2	2	2	16	10
*Fla.	25	-	-	-	-	-	-	-	-	-	-	-	-
*Mo.	149	-	-	-	-	-	-	-	-	-	-	-	-
Tenn.	400	2	9	4	-	-	-	4	5	-	-	22	8
*Ala.	835	-	-	-	-	-	-	-	-	-	-	-	-
Miss.	1,010	2	22	11	5	55	-	-	-	-	-	-	-
La.	357	3	11	4	2	8	+	+	1	1	4	7	+
*Tex.	3,290	-	-	-	-	-	-	-	-	-	-	-	-
*Okla.	635	-	-	-	-	-	-	-	-	-	-	-	-
Ark.	1,040	.5	6	12	5	59	-	25	3	-	-	35	11.5
Ariz.	42	-	-	7.5	4	-	-	-	5	-	-	2	12.5
*Calif.	85	-	-	-	-	-	-	-	-	-	-	-	-
*Others	15	-	-	-	-	-	-	-	-	-	-	-	-
U. S.	9,967	1.4	62	54	3.7	167	1.9	39	2	90	9.2	417	417

* - No loss estimates are available for these states; their production is not included in the total from which the percentage loss in the U. S. is calculated.

APPLE

Estimated reduction in yield of apples due to bitter rot (*Glomerella cingulata*), black rot (*Physalospora cydoniae*), blotch (*Phyllosticta solitaria*), and cedar rust (*Gymnosporangium juniperi-virginianae*), 1922.

Production: Estimated reduction in yield due to diseases

State	1922	Bitter rot	Black rot	Blotch	Cedar rust
	Bus. (000 : omitted)	%	Bus. (000 : omitted)	%	Bus. (000 : omitted)
Me.	1,250	0	0	0	0
N. H.	775	t	+	0	t
Vt.	960	-	-	0	-
Mass.	3,010	-	.5	16	0
R. I.	200	-	-	0	0
Conn.	1,300	.5	7	2	0
N. Y.	36,000	t	+	2.5	1,468
N. J.	2,610	-	-	1	27
Pa.	11,400	t	+	1.5	269
Del.	980	1	23	3	70
Md.	1,800	1	21	5	107
Va.	8,360	1	133	1	133
W. Va.	5,625	.5	33	2	134
N. C.	5,570	-	-	-	-
S. C.	383	5	21	-	-
Ga.	1,135	5	68	2	27
Ohio	7,298	1	97	7	677
Ind.	4,148	.25	12	3	139
Ill.	9,720	t	+	2	242
Mich.	11,850	-	-	0	0
Wis.	2,024	0	0	t	+
Minn.	1,020	0	0	t	+
Iowa	4,410	-	-	2	106
Mo.	9,400	3.5	341	-	-
N. D.	-	-	-	0	0
S. D.	263	-	-	0	0
Nebr.	1,620	-	-	-	-
Kans.	3,280	-	-	10	418
Ky.	5,070	-	-	10	874
Tenn.	4,250	15	1,931	5	360
Ala.	1,098	-	-	-	-
Miss.	216	3.5	9	-	6
La.	37	t	+	t	+
Tex.	2,640	-	-	.5	14
Okla.	1,140	-	-	-	-
Ark.	2,400	1	27	25	7
Mont.	610	0	0	0	0
Wyo.	45	0	0	0	0
Colo.	4,250	0	0	0	0
N. M.	750	0	0	0	0
Ariz.	77	0	0	0	0
Utah	1,085	0	0	0	0
Nev.	35	0	0	0	0
Idaho	3,900	0	0	0	0
Wash.	25,678	0	0	0	0
Oreg.	6,300	0	0	0	0
Calif.	7,656	0	0	0	0
U. S.	203,628	.7	1,873	1.5	3,941
					4,142
					4,129

APPLE (Continued)

Estimated reduction in yield of apples due to fire blight (*Bacillus amylovorus*), scab (*Venturia inaequalis*), and other diseases, 1922.

State : Production:		Estimated reduction in yield due to diseases							
: 1922		: Fire blight :		: Scab :		: Other diseases :		: All diseases	
: Bus. (000		: % :		: Bus. (000 :		: % :		: Bus. (000 :	
: omitted)		: omitted)		: omitted)		: omitted)		: omitted)	
Me.	1,250	-	-	-	-	-	-	-	-
N. H.	775	t	+	15	137	-	-	15	157
Vt.	360	5	54	6	65	-	-	11	110
Mass.	3,010	-	-	5	159	-	-	5.5	175
R. I.	200	-	-	-	-	-	-	-	-
Conn.	1,300	2	30	5	74	2	30	12	178
N. Y.	36,000	6	3,570	22	13,091	5	2,375	39.5+	23,504+
N. J.	2,610	-	-	-	-	-	-	2	54
Pa.	11,400	2.5	449	30	5,386	-	-	36.5+	6,553+
Del.	980	-	-	2	47	50	1,167	58	1,354
Md.	1,800	2	43	4	86	1	21	16	342
Va.	8,360	1	133	15	1,990	7	929	37	4,910
W. Va.	5,625	1	67	6	402	5	335	16	1,071+
N. C.	5,570	-	-	-	-	-	-	-	-
S. C.	383	1	4	t	+	3	13	9	38+
Ga.	1,135	3	41	6	81	-	-	16	217
Ohio	7,298	1	97	8	773	2	193	24.5	2,368
Ind.	4,148	.1	5	4	185	1.1	51	10.55	490
Ill.	9,720	1	121	7	845	3	362	19.5+	2,355+
Mich.	11,850	-	-	16	2,257	-	-	16	2,257
Wis.	2,024	5	112	5	112	t	+	10	224+
Minn.	1,020	.5	5	5	54	-	-	5.5+	59
Iowa	4,410	2	106	10	531	-	-	17	903
Mo.	9,400	-	-	-	-	-	-	3.5	341
N. D.	-	5	+	2	+	-	-	7	+
S. D.	263	10	31	2	6	2	6	14	43+
Nebr.	1,620	-	-	-	-	-	-	-	-
Kans.	3,280	1	42	5	209	5	209	21.5	899
Ky.	5,070	15	1,311	15	1,311	1	87	42	3,670
Tenn.	4,250	t	+	12	864	1	72	41	2,953+
Ala.	1,098	-	-	-	-	-	-	-	-
Miss.	216	5	13	-	-	-	-	14.5+	37+
La.	37	t	+	-	-	-	-	+	+
Tex.	2,640	2	55	-	-	-	-	4.5	124
Okla.	1,140	-	-	-	-	-	-	-	-
Ark.	2,400	2	53	.5	13	3.5	94	10.25+	274+
Mont.	610	-	-	-	-	-	-	-	-
Wyo.	45	-	-	-	-	-	-	-	-
Colo.	4,250	-	-	-	-	-	-	-	-
N. M.	750	-	-	-	-	-	-	-	-
Ariz.	77	1	1	-	-	5	4	6	5
Utah	1,085	.5	5	-	-	*	-	.5	5
Nev.	35	-	-	-	-	-	-	-	-
Idaho	3,900	2	82	t	+	3	123	5	205
Wash.	25,678	t	+	.3	85	9	2,548	9.3+	2,633+
Oreg.	6,300	t	+	5	346	4	277	9	623+
Calif.	7,656	-	-	-	-	-	-	-	-
U. S.	203,628	2.4	6,430	11.1	29,109	3.6	9,496	22.5	59,120

Estimated reduction in yield of peaches due to leaf curl (*Erioscaus deformans*), brown rot (*Sclerotinia cinerea*), scab (*Cladosporium carpophilum*), and other diseases, 1922.

State	Production : 1922	Estimated reduction in yield due to diseases									
		Leaf curl		Brown rot		Scab		Other diseases		All diseases	
		%	Bushels : :000 omitted:	%	Bushels : :000 omitted:	%	Bushels : :000 omitted:	%	Bushels : :000 omitted:	%	Bushels : :000 omitted:
N. H.	32	-	-	-	-	-	-	-	-	-	-
Mass.	200	2	4 : 10	t	23	-	-	-	-	12	27+
R. I.	28	-	-	-	-	-	-	-	-	-	-
Conn.	262	1	3 : 10	2	31	6	2	2	6	15	46
N. Y.	3,400	6	253 : 10	1.5	422	63	2	2	85	19.5	823
N. J.	2,000	-	-	-	20	-	-	-	-	1	20
Pa.	1,560	2	40 : 10	2	199	40	7.5	2	149	21.5	428
Del.	320	-	-	-	4	11	5.5	3	20	10	35
Md.	495	1.5	8 : 4	2	22	11	3	3	17	10.5	58
Va.	764	0	0 : 8	3	71	27	3	2	27	14	125
W. Va.	715	t	+ : 10	t	81	+	2	2	16	12	97+
N. C.	1,008	-	-	-	-	-	-	-	-	-	-
S. C.	345	t	+ : 49	-	963	-	8	-	157	57	1,120+
Ga.	4,900	.5	28 : 5	3	283	170	5	-	283	13.5	764
Fla.	130	-	-	-	-	-	-	-	-	-	-
Ohio	1,584	5	95 : 7	3	134	57	2	2	38	17	324
Ind.	650	.5	3 : 1	-	7	-	3	-	20	4.5	30
Ill.	1,100	2	23 : 1.5	t	18	+	2	2	23	5.5+	64+
Mich.	1,440	2	32 : 3	2	47	32	2	2	32	9	143
Iowa	200	2	4	-	-	-	-	-	-	2	4
Mo.	2,300	6	147	-	-	-	-	-	-	6	147
Nebr.	81	-	-	-	-	-	-	-	-	-	-
Kans.	630	10	79 : 5	5	39	39	-	-	-	20	157
Ky.	1,218	6	348 : 35	30	2,030	1,740	8	-	464	79	4,582
Tenn.	2,002	-	-	1	107	21	-	-	-	6	128
Ala.	810	-	-	-	-	-	-	-	-	-	-
Miss.	375	-	- : 15	1.5	67	7	-	-	-	16.5	74

: Production:		Estimated reduction in yield due to diseases									
State:	1922	Leaf curl		Brown rot		Scab		Other diseases		All diseases	
		%	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:
Ia.	180	0	0	20	49	2	5	5	12	27	66
Tex.	1,920	-	-	.1	20	1	20	-	-	2	40
Okla.	2,070	-	-	-	-	-	-	-	-	-	-
Ark.	2,040	2	52	10	258	3	77	6	155	21	542
Colo.	1,160	-	-	-	-	-	-	-	-	-	-
N. M.	93	-	-	-	-	-	-	-	-	-	-
Ariz.	128	6	9	-	-	-	-	5	7	11	16
Utah	885	-	-	-	-	-	-	-	-	-	-
Nev.	6	-	-	-	-	-	-	-	-	-	-
Idaho	244	t	+	0	0	0	0	t	+	+	+
Wash.	1,125	.5	6	.1	1	0	0	5	60	5.6	67
Oreg.	300	3	11	2	7	-	-	10	35	15	53
Calif.	17,500	-	-	-	-	-	-	15	3,088	15	3,088
U. S.	56,705	1.6	1,145	7	4,903	3.3	2,326	6.7	4,694	18.6	13,068

Estimated reduction in yield of pears due to fire blight (Bacillus amylovorus), scab (Venturia pyrina), leaf blight (Pabraea maculata), and other diseases, 1922.

: Production:		Estimated reduction in yield due to diseases									
State	Bushels (000 omitted)	Fire blight		Scab		Leaf blight		Other diseases		All diseases	
		%	Bushels :000 omitted	%	Bushels :000 omitted	%	Bushels :000 omitted	%	Bushels :000 omitted	%	Bushels :000 omitted
Me.	14	-	-	-	-	-	-	-	-	-	-
N. H.	24	t	-	-	-	-	-	-	-	t	+
Vt.	10	3	+	5	-	-	-	-	-	8	+
Mass.	84	-	-	-	-	-	-	-	-	-	-
R. I.	12	-	-	-	-	-	-	-	-	-	-
Gonn.	60	5	3	1	1	1	-	-	-	7	-
N. Y.	3,200	18	758	6	253	-	-	-	-	24	1,611
N. J.	405	-	-	-	-	-	-	-	-	-	-
Pa.	576	-	-	12	79	-	-	-	-	12	79
Del.	158	3	5	-	-	-	9	-	-	8	14
Md.	256	8	24	1	3	5	15	t	+	14	42+
Va.	270	-	-	-	-	-	-	-	-	-	-
W. Va.	38	5	2	t	+	t	+	t	+	5	2+
N. C.	110	-	-	-	-	-	-	-	-	-	-
S. C.	104	50	109	-	-	-	-	2	4	52	113
Ca.	202	-	-	-	-	-	-	-	-	-	-
Fla.	50	-	-	-	-	-	-	-	-	-	-
Ohio	450	3	14	2	9	t	+	-	-	5	23+
Ind.	300	-	-	-	-	-	-	-	-	-	-
Ill.	510	5	27	t	+	t	+	2	11	7	38+
Mich.	672	10	75	-	-	-	-	-	-	10	75
Wis.	19	t	+	t	+	0	0	t	+	+	+
Iowa	75	-	-	-	-	-	-	-	-	-	-
Mo.	450	-	-	-	-	-	-	-	-	-	-
S. D.	---	15	+	1	+	-	-	-	-	15	+

State	Production 1922 Bushels :000 omitted	Estimated reduction in yield due to diseases									
		Fire blight		Scab		Leaf blight		Other diseases		All diseases	
		%	Bushels :000 omitted	%	Bushels :000 omitted	%	Bushels :000 omitted	%	Bushels :000 omitted	%	Bushels :000 omitted
Nebr.	27	-	-	-	-	-	-	-	-	-	-
Kans.	245	-	-	-	-	-	-	-	-	-	-
Ky.	150	65	279	-	-	-	-	-	-	65	279+
Tenn.	180	t	+	t	+	+	+	+	+	+	+
Ala.	176	-	-	-	-	-	-	-	-	-	-
Miss.	190	-	-	-	-	-	-	-	-	-	-
Ia.	48	40	32	-	-	-	-	-	-	40	32
Tex.	390	-	-	-	-	-	-	-	-	-	-
Okla.	197	-	-	-	-	-	-	-	-	-	-
Ark.	100	50	150	-	-	-	-	-	-	60+	150
Mont.	9	-	-	-	-	-	-	-	-	-	-
Colo.	519	-	-	-	-	-	-	-	-	-	-
N. M.	18	-	-	-	-	-	-	-	-	-	-
Ariz.	18	1	+	-	-	-	-	5	+	6	+
Utah	98	-	-	-	-	-	-	-	-	-	-
Nev.	4	-	-	-	-	-	-	-	-	-	-
Idaho	72	2	1	0	0	0	0	t	+	2	1+
Wash.	1,708	t	+	.5	9	0	0	8	149	8.5+	158+
Creg.	1,250	2	26	1	13	-	-	1	13	4	52+
Calif.	5,205	15	919	-	-	-	-	-	-	15	919
U. S.	14,818	13.6	2,424	2.1	367	.1	25	1	177	16.8	2,993

Note: Production in states from which no loss estimates were received has been omitted from total on which percentage loss in United States is based.

PLUM and PRUNE

Estimated reduction in yield of plums and prunes due to brown rot (*Sclerotinia cinerea*), and other diseases, 1922.

State	Estimated reduction in yield due to diseases		
	Brown rot	Other diseases	All diseases
	%	%	%
Me.	-	-	-
N. H.	-	-	-
Vt.	15	-	-
Mass.	-	-	-
R. I.	-	-	-
Conn.	15	2	17
N. Y.	12	-	-
N. J.	-	-	-
Pa.	15	5	20
Del.	2	.5	2.5
Md.	6	3	9
Va.	-	-	-
W. Va.	5	5	10
N. C.	-	-	-
S. C.	5	2	7
Ga.	-	-	-
Fla.	-	-	-
Ohio	10	3	13
Ind.	-	-	-
Ill.	5	2	7
Mich.	-	-	-
Wis.	5	1	6
Minn.	1.5	.5	2
Iowa	20	-	-
Mo.	-	-	-
N. D.	*-	-	-
S. D.	-	-	-
Nebr.	-	-	-
Kans.	5	1	6
Ky.	-	-	-
Tenn.	30	-	30
Ala.	-	-	-
Miss.	-	-	-
La.	-	-	-
Tex.	10	-	-
Okla.	-	-	-
Ark.	20	t	20 +
Mont.	-	-	-
Wyo.	-	-	-
Colo.	-	-	-
N. M.	-	-	-
Ariz.	-	5	5
Utah	-	-	-
Nev.	-	-	-
Idaho	0	3	3
Wash.	t	5	5
Oreg.	*-	-	-
Calif.	-	-	-

CHERRY

Estimated reduction in yield of cherries due to brown rot (Sclerotinia cinerea), leaf spot (Coccomyces hiemalis), and other diseases, 1922.

State	Estimated reduction in yield due to diseases			
	Brown rot:	Leaf spot:	Other diseases:	All diseases
	%	%	%	%
Mass.	-	*-	-	-
Conn.	15	*-	2	17
N. Y.	8	6	-	-
Pa.	10	9	-	-
Del.	2	1	-	3
Md.	3	8	1	12
Va.	-	*-	-	-
W. Va.	5	t	5	10+
Ohio	2	25	-	27
Ind.	t	5	-	5
Ill.	1	t	1	2+
Mich.	-	20	-	20
Wis.	t	5	t	5
Iowa	-	6	-	6
Mo.	-	*-	-	-
Kans.	2	5	-	7
Ky.	10	15	-	25
Tenn.	5	-	t	5+
Ark.	4	5	t	9+
Idaho	-	-	1	1
Wash.	.5	0	5	5.5

GRAPE

Estimated reduction in yield of grapes due to black rot
(*Quignardia bidwellii*), and other diseases, 1922.

: Estimated reduction in yield due to diseases											
State	Black rot	Other	All	:	State	Black rot	Other	All	:	State	Black rot
	diseases	diseases	diseases	:		diseases	diseases	diseases	:		diseases
	%	%	%	:		%	%	%	:		%
N. H.	t	-	-	:	Minn.	t	1	1.5	:		
Conn.	20	5	25	:	Iowa	5	-	5	:		
N. Y.	2	-	2	:	Kans.	2	2	4	:		
Pa.	5	-	-	:	Ky.	25	15	40	:		
Del.	5	-	5	:	Tenn.	20	t	20	:		+
Md.	10	5	15	:	Miss.	5	-	5	:		
W. Va.	20	-	20	:	La.	t	-	t	:		
S. C.	12.5	3	15.5	:	Tex.	8	-	8	:		
Cal.	10	10	20	:	Ark.	8	1	9	:		
Ohio	5	3	8	:	Ariz.	-	4	4	:		
Ind.	2	-	2	:	Idaho	-	-	-	:		
Ill.	3	1	4	:	Wash.	0	5	5	:		
Wis.	5	1	6	:					:		

RASPBERRY

Estimated reduction in yield of raspberries due to Mosaic and Leaf
curl (cause unknown), and other diseases, 1922.

: Estimated reduction in yield due to diseases											
State	Mosaic and	Other	All	:	State	Mosaic and	Other	All	:	State	Mosaic and
	Leaf curl	diseases	diseases	:		Leaf curl	diseases	diseases	:		Leaf curl
	%	%	%	:		%	%	%	:		%
Conn.	10	10	20	:	Minn.	2	3	5	:		
Pa.	12.5	5	17.5	:	Kans.	-	7	7	:		
Md.	2	7	9	:	Ky.	-	95	95	:		
W. Va.	-	5	5	:	Ark.	0	30	30	:		
Ohio	-	20	20	:	Wash.	0	10	10	:		
Ind.	-	10	10	:	Wis.	1	t	1	:		
				:					:		

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