

NEW YORK STATE  
DEPARTMENT OF  
AGRICULTURE AND MARKETS

Charles H. Baldwin, Commissioner

MARKETING

WESTERN AND CENTRAL

NEW YORK

LETTUCE

SUMMARY OF THE 1933 SEASON

By

A. L. Thomas

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300 TERMINAL BUILDING

H. S. DUNCAN  
DIRECTOR

TABLE OF CONTENTS

	<u>Pages</u>
General Review of the 1933 Lettuce Season .....	1 - 2
Estimated N.Y.State Lettuce Acreage Past Four Seasons ....	3
Estimated Acreage, Yield & Production of Lettuce for U. S. Past Three Seasons.....	4
Carlot Shipments of N.Y.State Lettuce - 1933 Season..... By Months, Counties, and Stations	5
Carlot Distribution of N. Y. State Lettuce Past Four Seasons.....	6 - 7
Daily Carlot Shipments New York & Competing States 1933 Season.....	8
Weekly Arrivals & Jobbing Prices in Various Markets.....	9- 10
Lettuce & Romaine Carlot Shipments in 1933 .....	11
Carlot Shipments of Lettuce in U. S. By Months Calendar Years 1923-32	11
U. S. Standards for Lettuce .....	12-17

MARKETING WESTERN NEW YORK LETTUCE  
(Season of 1933)

As in previous seasons, the New York State Department of Agriculture and Markets assembled at its Rochester office, and disseminated to New York State growers and shippers both direct and through their associations, information regarding the daily movement of lettuce. The information thus gathered is summarized in the pages which follow, which also include data of a more general nature compiled and issued by the U. S. Department of Agriculture.

All railroads traversing western and central New York furnished daily wires showing destinations of all shipments of lettuce moving from their division. This information, consolidated and summarized daily at Rochester, was sent by telephone or telegraph, (charges collect), to shippers and others requesting it. No price information was gathered and no reports were sent out by mail, but a daily summary of shipments and destinations was furnished to The Rochester Times Union, The Rochester Democrat and Chronicle, and The Buffalo Evening News. These newspapers carried also a special press release covering market conditions and prices for lettuce in New York City, furnished them by the New York office of the State Department of Agriculture and Markets.

In New York State, the acreage planted, or intended to be planted this season, was estimated to be approximately 5,400 as compared with 5,650 last year. This acreage includes land planned to be double-cropped. Very unfavorable growing conditions prevailed during the summer and the planned double-cropped acreage was not completed. Each year the growers plant at intervals of ten days to two weeks in order that lettuce may be available until freezing weather. The acreage by counties will be found on another page of this summary.

MARKETING WESTERN NEW YORK LETTUCE (Cont'd)  
(Season of 1933)

The yield per acre this year was very light, only 310 crates of 2-dozen heads per acre as compared with 420 the previous season. The total production this year is estimated at 1,674,000 crates, whereas last season the production was placed at 2,372,000 crates of two-dozen heads each. On another page in this summary will be found the estimated commercial acreage, yield, and production for the various States, which are figured in western crates of 4-dozen heads each.

The movement by rail this year filled only 1,266 cars, just about half as many as moved to market during 1932. The movement this season was the lightest on record, due primarily to the extremely dry weather. The movement by truck is increasing year after year, but this increase could not possibly be so large this year as to affect the movement by rail. With this year's lighter movement the distribution was comparatively smaller. As is always the case, New York City, Philadelphia, Boston and Baltimore took the greater part of the movement. Approximately two-thirds of the movement by rail this year was destined to New York City.

The quality of lettuce this year was greatly affected by the dry weather and consequently considerable stock of ordinary quality and condition moved to market. Bottom Rot and Tip Burn was prevalent throughout the State to some extent. At the beginning of the season the quality was fairly good, but after the hot, dry, weather of July and August the quality grew worse until at the end of the season very little good stock was available.

ESTIMATED NEW YORK STATE LETTUCE ACREAGE FOR THE PAST FOUR SEASONS

COUNTY	ACRES			
	1933	1932	1931	1930
Cayuga	110	100	85	82
Chautaugua	50	35	33	-
Genesee-Orleans	1125	1350	1420	1575
Livingston	40	50	45	-
Madison	110	130	150	160
Monroe	35	-	10	10
Montgomery	-	40	-	-
Niagara	75	80	-	-
Oneida	120	120	100	114
Onondaga	60	45	35	-
Ontario	10	10	7	-
Orange	770	760	720	775
Oswego	2280	2350	1975	2135
Seneca	30	40	20	-
Steuben	45	40	35	-
Wayne	540	500	375	400
Total	5400	5650	5050*	5450**

\* Includes 40 acres unknown listed as "Others"

\*\* " " 199 " " " " " "

Note: The acreage figures above do not cover the market garden acreage near the large cities of New York, Buffalo, Rochester, Syracuse, etc. Some of them are, of course, out of line with the carlot shipments for the reason that trucking is much heavier in some sections than others. For instance, Orange County ships a large percentage of it's crop direct to New York City by truck. The movement by truck from upstate points continues to increase and during the 1932 season the volume moving in this manner increased sharply.

Some of the production in a few counties is loaded and shipped from another county and as a result the carlot shipments are out of proportion with the acreage.

ESTIMATED COMMERCIAL ACREAGE, YIELD, AND PRODUCTION OF LETTUCE  
(Seasons 1931, 1932, and 1933)

GROUP and STATE	ACREAGE			YIELD PER ACRE			PRODUCTION		
	1931	1932	1933	1931	Prelim. 1932	1933	1931	1932	Prelim 1933
	Acres			Crates*			1,000 crates*		
<u>Early:</u>									
Arizona	18,100	13,000	12,400	70	70	95	1,267	910	1,178
Calif. Imperial	41,000	33,500	30,000	89	110	103	3,649	3,685	3,090
Florida	2,450	1,700	1,650	264	218	348	646	370	574
Texas	300	160	100	75	38	60	22	6	6
Group Total	61,850	48,360	44,150	90	103	110	5,584	4,971	4,848
<u>Second Early:</u>									
Arizona	16,000	14,400	13,000	80	110	103	1,280	1,584	1,339
Calif. Other	31,600	32,120	27,250	118	82	115	3,729	2,634	3,134
North Carolina	1,500	1,200	1,350	134	36	75	201	43	101
South Carolina	600	200	400	155	80	116	93	16	46
Group Total	49,700	47,920	42,000	107	89	110	5,303	4,277	4,620
<u>Intermediate:</u>									
Idaho	70	80	80	130	150	150	9	12	12
New Jersey	1,000	800	1,000	250	200	250	250	160	250
Oregon	80	160	180	75	85	85	6	14	15
Virginia	200	200	200	180	170	175	36	34	35
Washington	3,000	3,300	3,600	205	205	190	615	676**	684
Group Total	4,350	4,540	5,060	211	197	197	916	896**	996
<u>Late (1):</u>									
California	12,800	14,050	9,250	120	117	141	1,536	1,644	1,304
Colorado	6,650	8,310	5,630	90	100	100	598	831**	563
New Mexico	200	20	200	108	100	95	22	2	19
New York #	5,200	5,650	5,400	235	210	155	1,222	1,186	837
Pennsylvania	350	250	250	160	200	180	56	50	45
Group Total	25,200	28,280	20,730	136	136	134	3,434	3,713**	2,768
<u>Late (2):</u>									
California	32,250	32,500	25,100	127	109	140	4,096	3,542	3,514
Idaho	380	450	700	150	175	180	57	79	126
New Jersey	1,000	900	750	100	235	225	100	212	169
Oregon	250	200	120	150	150	150	38	30**	18
Washington	450	500	500	180	200	180	81	100**	90
Group Total	34,330	34,550	27,170	127	115	144	4,372	3,963**	3,917
<u>TOTAL ALL STATES</u>	<u>175,430</u>	<u>163,650</u>	<u>139,110</u>	<u>112</u>	<u>109</u>	<u>123</u>	<u>19,609</u>	<u>17,820**</u>	<u>17,149</u>

\* Western crates of four dozen heads

\*\*Includes some quantities not harvested on account of market conditions.

# New York State ships in standard crates of 2-dozen heads each. Therefore, in yield and production the figures listed should be doubled.

CARLOT SHIPMENTS OF NEW YORK STATE LETTUCE BY MONTHS, COUNTIES, & STATIONS  
1933 SEASON COMPARED WITH 1932 SEASON

COUNTY & STATION	1933 SEASON						1932 SEASON						
	June	July	Aug.	Sept.	Oct.	Total	June	July	Aug.	Sept.	Oct.	Nov.	Total
<u>GENESEE</u>													
Batavia	-	1	-	-	-	1	-	-	-	3	-	-	3
Elba	90	272	49	13	-	424	76	377	202	33	-	-	688
LeRoy	-	11	16	-	-	27	-	-	-	-	-	-	-
Total	90	284	65	13	-	452	76	377	202	36	-	-	691
<u>MADISON</u>													
Canastota	3	13	4	1	3	24	-	7	8	1	-	-	16
N. Chittenango	-	-	-	-	-	-	1	-	-	-	-	-	1
Total	3	13	4	1	3	24	1	7	8	1	-	-	17
<u>MONROE</u>													
Fairport	2	2	-	-	-	4	-	1	-	-	-	-	1
Webster	-	1	-	-	-	1	-	-	-	-	-	-	-
Total	2	3	-	-	-	5	-	1	-	-	-	-	1
<u>NIAGARA</u>													
Middleport	-	-	-	-	-	-	-	-	-	3	-	-	3
<u>ONEIDA</u>													
Rome	-	1	2	-	-	3	-	-	1	-	-	-	1
<u>ONTARIO</u>													
Canandigua	-	-	-	-	-	-	-	-	-	-	1	-	1
<u>ORLEANS</u>													
Albion	2	30	30	1	-	63	-	15	31	6	-	-	52
Fancher	-	-	-	-	1	1	-	-	-	1	-	-	1
Holley	-	-	7	-	-	7	-	-	-	-	-	-	-
Kendall	-	-	-	2	-	2	-	-	-	-	-	-	-
Total	2	30	37	3	1	73	-	15	31	7	-	-	53
<u>OSWEGO</u>													
Fulton	15	182	192	133	27	549	20	259	297	166	37	-	779
Oswego	12	68	10	4	2	96	6	248	328	161	33	-	776
Pennelville	-	-	-	-	-	-	-	-	1	1	-	-	2
Total	27	250	202	137	29	645	26	507	626	328	70	-	1557
<u>STEBEN</u>													
Arkport	-	-	-	-	-	-	-	-	1	-	-	-	1
<u>WAYNE</u>													
E. Williamson	5	1	-	-	-	6	1	7	-	2	1	-	11
Marion	7	10	1	-	-	18	5	30	6	3	-	-	44
Newark	7	3	1	-	1	12	2	1	-	1	-	1	5
NorthRose	-	1	-	-	-	1	1	-	-	-	-	-	1
Ontario	7	1	-	-	-	8	10	14	1	4	-	-	29
Savannah	-	-	-	-	-	-	-	3	-	2	-	-	5
Sodus	4	3	-	-	1	8	-	-	2	1	1	-	4
Wallington	-	-	-	-	-	-	1	-	-	-	-	-	1
Williamson	1	7	-	-	-	8	15	46	7	4	-	-	72
Wolcott	-	3	-	-	-	3	2	-	-	-	-	-	2
Total	31	29	2	-	2	64	37	101	16	17	2	1	174
<b>GRAND TOTAL</b>	<b>155</b>	<b>610</b>	<b>312</b>	<b>154</b>	<b>35</b>	<b>1266</b>	<b>140</b>	<b>1008</b>	<b>885</b>	<b>392</b>	<b>73</b>	<b>1</b>	<b>2499</b>

November 1933 not shown - no shipments reported.

CARLOT DISTRIBUTION OF NEW YORK STATE LETTUCE  
FOR THE PAST FOUR SEASONS

STATE & DESTINATION	1933	1932	1931	1930
<u>CONNECTICUT</u>				
New Haven .....	14	32	36	84
Hartford .....	4	2	17	11
Bridgeport.....	2	6	2	8
Waterbury .....	0	0	1	2
<u>DISTRICT OF COLUMBIA</u>				
Washington.....	14	32	48	63
<u>ILLINOIS</u>				
Chicago .....	34	25	61	74
<u>MAINE</u>				
Portland .....	0	0	1	0
<u>MARYLAND</u>				
Baltimore .....	64	89	110	124
<u>MASSACHUSETTS</u>				
Boston .....	88	117	193	233
Springfield .....	2	5	4	3
<u>MICHIGAN</u>				
Detroit .....	2	0	1	3
<u>MISSOURI</u>				
St. Louis .....	15	8	27	41
<u>NEW YORK</u>				
New York City.....	839	1723	2227	1884
<u>NEW JERSEY</u>				
Newark .....	10	31	11	16
<u>OHIO</u>				
Cleveland .....	4	15	27	33
Cincinnati .....	11	17	24	31
Columbus .....	0	0	0	1
Collinwood(Diversion)	0	1	0	0



CARLOT DISTRIBUTION OF NEW YORK STATE LETTUCE  
FOR THE PAST FOUR SEASONS (Cont'd)

STATE AND DESTINATION	1933	1932	1931	1930
<u>PENNSYLVANIA</u>				
Philadelphia .....	60	199	232	382
Pittsburgh .....	14	19	43	63
WilkesBarre .....	0	0	0	5
Allentown .....	0	0	0	2
Harrisburg .....	0	1	0	0
	0	0		
<u>RHODE ISLAND</u>				
Providence .....	5	1	17	17
Olneyville .....	0	0	1	0
<u>VIRGINIA</u>				
Richmond .....	0	0	0	2
Norfolk .....	0	0	0	1
<u>NORTH CAROLINA</u>				
Wilmington .....	0	0	0	1
<u>CANADA</u>				
Toronto, Ont. ....	0	0	0	1
<hr/>				
TOTAL .....	1182	2323	3083	3085
<hr/>				
TOTAL FROM STATE* .....	1266	2499	3282	3217
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\* Includes cars shipped before and after the period the railroads were reporting to the Rochester office.

TOTAL SHIPMENTS BY DAYS FROM NEW YORK AND COMPETING STATES  
1933 SEASON

Date	N. Y.	Calif.	Colo.	Wash.	U. S.	Date	N. Y.	Calif.	Colo.	Wash.	U. S.
June 19	5	46	4	37	93	Aug. 10	6	51	6	4	77
20	10	61	2	40	115	11	6	56	10	10	82
21	6	54	2	41	109	12	10	62	14	8	94
22	8	52	4	21	88	13	5	6	6	7	24
23	15	42	1	26	84	14	11	59	6	8	84
24	23	56	3	19	103	15	12	54	10	10	86
25	1	8	0	9	18	16	6	66	13	7	93
26	16	57	1	16	94	17	7	58	9	7	83
27	25	67	3	17	116	18	3	61	6	12	82
28	16	71	3	13	103	19	8	63	9	13	94
29	18	75	3	9	105	20	7	30	0	8	45
30	12	51	2	5	73	21	9	55	8	9	82
July 1	27	91	0	8	127	22	13	62	18	11	105
2	1	30	0	4	35	23	7	67	10	9	94
3	29	92	1	11	133	24	8	65	14	7	94
4	16	30	0	3	49	25	6	71	12	5	94
5	24	119	1	7	152	26	14	68	11	4	98
6	16	117	0	8	142	27	11	15	3	5	34
7	6	119	0	12	141	28	10	73	9	1	93
8	23	104	0	15	144	29	8	68	13	5	94
9	6	40	0	4	53	30	8	64	20	3	96
10	25	88	0	13	128	31	8	83	16	1	101
11	32	89	2	19	143	Sept. 1	1	104	7	-	112
12	23	104	1	13	143	2	2	98	16	3	120
13	16	95	2	16	132	3	9	19	12	1	41
14	14	95	1	2	114	4	8	24	16	-	49
15	19	109	2	14	147	5	11	119	14	-	144
16	6	25	1	9	43	6	7	108	22	-	138
17	29	73	2	20	127	7	8	103	21	-	133
18	35	80	3	18	137	8	-	103	11	-	114
19	30	73	0	14	118	9	10	95	8	-	114
20	19	80	4	17	113	10	7	18	3	-	28
21	21	76	1	10	109	11	6	102	6	-	122
22	28	66	2	9	107	12	7	90	4	-	100
23	10	15	0	4	29	13	6	89	9	-	103
24	29	104	1	8	142	14	5	90	17	-	112
25	28	106	2	9	146	15	-	69	15	-	85
26	19	89	2	11	123	16	6	94	25	-	125
27	20	93	1	24	139	17	5	23	7	-	35
28	14	77	0	20	111	18	6	106	9	-	122
29	18	75	3	9	105	19	5	121	12	-	138
30	8	20	0	7	35	20	6	105	12	-	123
31	14	85	2	25	126	21	4	106	14	-	124
Aug. 1	15	79	2	29	125	22	1	134	11	-	147
2	11	70	2	29	112	23	6	131	8	-	145
3	18	68	0	22	108	24	4	50	1	-	55
4	16	80	1	15	112	25	4	142	8	-	155
5	18	68	0	23	109	26	4	166	4	-	175
6	10	25	0	6	41	27	3	134	4	-	141
7	16	69	1	10	96	28	6	119	5	-	131
8	15	86	6	19	126	29	-	129	2	-	131
9	14	78	1	13	103	30	6	135	4	-	145

WEEKLY ARRIVALS AND JOBBING PRICES IN VARIOUS MARKETS

The weekly carlot arrivals and price range to jobbers in the following tables are from reports issued by the United States Department of Agriculture, Bureau of Agricultural Economics.

NEW YORK CITY

Week Ending	A r r i v a l s					WEEKLY RANGE NEW YORK STATE LETTUCE-CRATES
	New York Truck	Rail	Calif.	Colc.	Wash.	
June 24	33	3	47	-	9	\$.40-.65, poorer low as \$.15
July 1	45	30	38	-	28	.20-.65, poorer low as .10
Yr. Ago		62	33	5	22	.35-1.00
July 8	27	75	32	-	23	.25-.60, poorer low as .10
Yr. Ago		115	48	-	16	.15-1.00
July 15	10	70	69	-	6	.25-1.25, poorer low as .05
Yr. Ago		96	48	-	22	.15-.85
July 22	6	87	81	-	2	.30-1.75, poorer low as .15
Yr. Ago		123	92	-	5	.25-.85
July 29	8	100	71	-	17	.25-.75, poorer low as .10
Yr. Ago		69	112	-	5	.25-.65
Aug. 5	2	66	88	-	20	.30-1.75, poorer low as .20
Yr. Ago		40	89	-	20	.25-.75
Aug. 12	4	77	76	-	8	.50-1.25, poorer low as .25
Yr. Ago		48	71	-	24	.25-.65
Aug. 19	2	49	71	-	28	.75-1.75, poorer low as .15
Yr. Ago		46	66	4	20	.25-.60
Aug. 26	2	47	49	1	16	.60-1.50, poorer low as .15
Yr. Ago		43	78	2	3	.25-.50
Sept. 2	1	49	41	-	12	.65-1.25, poorer low as .25
Yr. Ago		41	73	3	-	.20-.75

WEEKLY ARRIVALS AND JOBBING PRICES IN VARIOUS MARKETS (Cont'd)

PHILADELPHIA

BOSTON

Week Ending	Arrivals			- Weekly Range -		Arrivals			- Weekly Range -	
	N.Y.	Calif	Wash	N.Y.	State Lettuce	N.Y.	Calif	Wash	N.Y.	State Lettuce
June 24	4	61	28	.25-	.75	1	14	2	.25-	.50
Yr. Ago		-----					-----			
July 1	6	37	10	.25-	.50	11	7	3	.35-	.75
Yr. Ago	7	38	22	.25-	1.00		-----			
July 8	5	57	15	.25-	.75, poor .10	23	19	10	.25-	.75, poor .10
Yr. Ago	2	50	13	.30-	.85	6	13	-	.25-	.85
July 15	1	57	1	.40-	.85	10	19	-	.25-	.85, poor .15
Yr. Ago	26	44	12	.10-	.65	8	11	-	.10-	.65
July 22	1	60	3	.25-	1.00	7	24	-	.50-	1.00, poor .25
Yr. Ago	26	79	13	.35-	1.00	18	32	1	.25-	1.00
July 29	3	26	12	.25-	.75, poor .20	11	28	-	.25-	.65, poor .10
Yr. Ago	23	87	10	.15-	.75	14	31	2	.25-	.75
Aug. 5	5	51	6	.40-	1.00, poor .15	9	30	-	.75-	1.50, poor .50
Yr. Ago	16	31	21	.30-	.85	12	22	7	.50-	.65
Aug. 12	6	28	4	.75-	1.50, poor .35	6	20	-	1.00-	1.50
Yr. Ago	20	56	13	.30-	.65	10	19	6	.50-	.65
Aug. 19	3	52	15	.50-	1.40, poor .30	1	27	2	1.00-	1.50, poor .50
Yr. Ago	14	52	2	.25-	.75	14	30	4	.25-	.65
Aug. 26	-	23	5	.50-	1.50	2	16	-	No N.Y. quoted	
Yr. Ago	23	64	-	.40-	.65	9	24	1	.50-	.60
Sept. 2	2	30	7	.75-	1.25	3	10	2	.50-	1.25
Yr. Ago	12	42	-	.25-	.50	10	19	-	.40-	.50

LETTUCE & ROMAINE - CARLOT SHIPMENTS IN 1933  
(Including boat shipments reduced to carlot equivalents,  
but not movement by motor truck).

STATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ariz.	745	70	703	3269	12	-	-	-	-	-	61	1786	6646
Calif.N.D.	2	-	-	84	331	1	-	-	-	-	333	300	1051
" S.D.	25	-	3	2	-	1	-	1	1	-	304	604	941
" C.D.	-	-	4	1015	4157	2014	2469	1875	2928	2439	2334	435	19670
" Imp.Vly.	3066	3709	2282	7	-	-	-	-	-	-	-	598	9662
Colo.	-	-	-	-	-	35	38	252	322	15	2	-	664
Fla.	113	120	86	17	2	-	-	-	-	-	39	129	506
Ga.	-	-	-	3	-	-	-	-	-	-	-	-	3
Idaho	-	-	-	-	-	31	-	-	-	188	173	-	392
La.	-	1	-	-	-	-	-	-	-	-	-	-	1
Mo.	-	-	-	-	3	-	-	-	-	-	-	-	3
Mont.	-	-	-	-	-	-	-	-	-	1	-	-	1
N.J.	-	-	-	-	1	-	-	-	-	-	-	-	1
N.Mex.	-	-	-	-	-	-	-	7	11	-	1	-	19
N. Y.	-	-	-	-	-	155	610	312	154	35	-	-	1266
N. C.	-	-	-	162	33	-	-	-	-	-	-	-	195
Ohio	15	5	17	11	8	-	-	-	-	5	8	9	78
Ore.	-	-	-	-	-	2	35	-	-	13	14	-	64
Pa.	-	-	-	-	-	2	2	-	-	-	-	-	4
S. C.	-	1	19	94	1	-	-	-	-	-	-	-	115
Tex.	1	-	-	-	-	-	-	-	-	-	-	-	1
Utah	-	-	-	-	-	3	-	-	-	3	1	-	7
Va. N. S.	-	-	-	-	4	-	-	-	-	-	-	-	4
Wash.	-	-	-	-	14	633	372	325	4	26	82	11	1467
<b>TOTAL U. S.</b>	<b>3967</b>	<b>3906</b>	<b>3114</b>	<b>4664</b>	<b>4566</b>	<b>2877</b>	<b>3526</b>	<b>2772</b>	<b>3420</b>	<b>2725</b>	<b>3352</b>	<b>3872</b>	<b>42761</b>

CARLOT SHIPMENTS OF LETTUCE IN U. S. BY MONTHS  
CALENDAR YEARS - 1923-32

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1932	4823	4660	4551	5457	4073	2322	4041	3447	3291	2990	3347	3100	46702
1931	4963	4212	5644	5266	4759	2441	4081	3732	3943	3903	3822	3124	49890
1930	4977	5919	5810	5713	5796	2572	4880	3969	3773	3839	3366	5014	55628
1929	4976	5236	4871	5646	4291	3078	4195	4574	3927	4983	3556	3901	53234
1928	5089	5270	5006	5747	5652	1998	3006	3906	3491	3676	4082	4581	51504
1927	4685	4554	4679	5159	3534	1972	2922	4077	3960	3563	3357	4388	46850
1926	4250	3578	4024	4136	3828	2519	2713	2871	3349	3563	2939	4437	42207
1925	3309	3378	4987	4006	2900	1526	2499	3269	2962	2765	2380	3325	37306
1924	3807	3625	2789	2887	3090	1260	1710	2033	1826	2168	2820	2920	30935
1923	3119	2736	4099	2520	2015	1310	2232	2493	1839	2048	2285	2789	29485

UNITED STATES DEPARTMENT OF AGRICULTURE

BUREAU OF AGRICULTURAL ECONOMICS

U. S. STANDARDS FOR LETTUCE  
(Effective March 15, 1934)

INTRODUCTION

Numbers and letters in parentheses following grade terms indicate where such terms are defined on pages 3 to 6, inclusive under Definitions of Terms.

The tolerances for the various grades are placed on a container basis. However, for a tolerance of 10 percent individual packages in any lot may not contain more than one and one-half times the tolerance specified, and for one of less than 10 percent individual packages in any lot may not contain more than double the tolerance specified, provided that the entire lot based on sample inspection shall average within the tolerances specified.

GRADES

U. S. Fancy shall consist of heads of lettuce of similar varietal characteristics (1) which are fresh (2), firm (3), well formed (4) and well trimmed (5); which are not split, burst (6), or open, and which are free from decay, tipburn, russet, brown blight, doubles (7), and from damage (8) caused by seedstems (8a), broken midribs (8b), freezing (5 & 8c), dirt (8d), sunburn (5 & 8e), discoloration (5 & 8), disease, aphids (8f) or other insects, or mechanical or other means (8).

In order to allow for variations incident to proper grading and handling, not more than 10 percent, by count, of the heads in any container may be below the requirements of this grade, but not more than one-half of this tolerance, or 5 percent, shall be allowed for decay affecting the compact portion of the head. Of this tolerance for decay, not more than two-fifths or 2 percent, shall be allowed for slimy decay.

U. S. No. 1 shall consist of heads of lettuce of similar varietal characteristics (1) which are fresh (2); which are not split or burst(6), and which are free from decay, tipburn, russet, brown blight, doubles(7), and from damage caused by opening (8g), seedstems (8a), broken midribs (8b), freezing (5 & 8c), dirt (8d), sunburn (5 & 8e), discoloration(5&8), disease, aphid (8f) or other insects, or mechanical or other means (8). Each head shall be fairly well trimmed (9) unless specified as closely trimmed (10). Not less than 75 percent of the heads of Iceberg type lettuce shall be firm (3), and the remainder shall be fairly firm (11). Heads of Big Boston type lettuce shall be fairly firm (11).

In order to allow for variations incident to proper grading and handling, not more than 10 percent, by count, of the heads in any container may be below the requirements of this grade, but not more than one-half of this tolerance, or 5 percent, shall be allowed for decay affecting the compact portion of the head; provided that, of this tolerance for decay not more than two-fifths or 2 percent, shall be allowed for slimy decay. This tolerance shall not permit in any lot of U.S.No.1 Iceberg type lettuce fewer than 90 percent of heads which are firm or fairly firm and free from defects, on the basis of a ratio of three firm heads to one fairly firm head.

U. S. Commercial shall consist of heads of lettuce which meet all of the requirements of U. S. No. 1 grade except that they shall be free from serious damage by tipburn instead of free from tipburn.

In order to allow for variations incident to proper grading and handling, not more than 10 percent, by count, of the heads in any container may be below the requirements of this grade, but not more than one-half of this tolerance, or 5 percent, shall be allowed for decay affecting the compact portion of the head; provided that, of this

tolerance for decay not more than two-fifths or 2 percent, shall be allowed for slimy decay. This tolerance shall not permit in any lot of U. S. Commercial Iceberg type lettuce fewer than 90 percent of heads which are firm or fairly firm and free from defects, on the basis of a ratio of three firm heads to one fairly firm head.

U. S. No. 2 shall consist of heads of lettuce of similar varietal characteristics (1) which are not split or burst (6), which are free from decay, from damage (8) caused by seedstems (8a), and from serious damage (12) caused by wilting, tipburn, freezing, disease, insects, or mechanical or other means.

In order to allow for variations incident to proper grading and handling, not more than 10 percent, by count, of the heads in any container may be below the requirements of this grade.

#### DEFINITIONS OF TERMS

As used in these grades:

1. "Similar varietal characteristics" means that the heads in any container have the same characteristic leaf growth. For example, lettuce of the Iceberg and Big Boston types shall not be mixed.

2. "Fresh" means that the head is crisp, although the wrapper leaves and the outer one or two head leaves may be slightly wilted.

3. "Firm", as applied to heads of Iceberg type lettuce, means that the head is compact but may yield slightly to moderate pressure; as applied to heads of Big Boston lettuce, means that the head is fairly compact.

4. "Well formed" means that the head is well shaped, and that mid-ribs of the leaves are not abnormally prominent or protruding.

5. "Well trimmed" means that the butt is trimmed off close to the point of attachment of the outer leaves; that wrapper leaves are free



from appreciable injury by any cause; that on heads of Iceberg type lettuce wrapper leaves do not exceed six in number, nor more than one-half of which may be excessively large and coarse such as are characteristic of No. 6 strain; and provided further, that the outermost leaves of the head show some shade of green color on a part of the leaves. "Wrapper leaves" means all leaves which do not fairly closely enfold the compact portion of the head. Heads shall not be considered well trimmed when the wrapper leaves are badly blistered or show yellow discoloration or more than slight brown margins. Heads with torn wrapper leaves shall not be considered well trimmed when such leaves appreciably injury the appearance of the head.

6. "Burst" means that the head is broken open.

7. "Doubles" means two heads on the same stem.

8. "Damage" means any injury which materially affects the appearance, edible or shipping quality of the lettuce except defects affecting wrapper leaves as restricted under definitions of "well trimmed", "fairly well trimmed", and "closely trimmed". The following shall be considered as damage:

(a) Seedstems which are apparent upon external examination of the head.

(b) Broken midribs, when more than two of the outer head leaves have the midribs broken in two due to abnormal growth conditions.

(c) Freezing, when the head leaves show a brown discoloration over more than half of the crown, or when more than three of the outer head leaves show appreciable injury by freezing.

(d) Dirt, when the head is smeared with mud, or when wrapper leaves are badly smeared with mud, or when the basal portion of the head is caked with mud or dry dirt.

(e) Sunburn, when the head leaves shown a brown discoloration

over more than half of the crown of the head.

(f) Aphis, when the head proper is infested, or when the wrapper leaves are badly infested.

(g) Opening, in hard or firm heads which have one-fourth or more of the head distinctly separated from the remainder, or any degree of opening in fairly firm heads.

9. "Fairly well trimmed" means that the butt is trimmed off close to the point of attachment of the outer leaves; that wrapper leaves are free from serious injury by any cause; that, on heads of Iceberg type lettuce, wrapper leaves do not exceed ten in number, not more than six of which may be excessively large and coarse such as are characteristic of No. 6 strain; and provided further, that the outermost leaves of the head show some shade of green color on a part of the leaves. "Wrapper leaves" means all leaves which do not fairly closely enfold the compact portion of the head. Heads shall not be considered fairly well trimmed when the wrapper leaves show yellow or brown discoloration or brown margins to an extent that the appearance of the head is seriously injured. Any blistering except that causing yellow or brown discoloration which seriously affects the appearance of the wrapper leaves or any tearing of wrapper leaves shall not be considered as serious injury.

10. "Closely trimmed" means that the head meets all requirements of "fairly well trimmed" except that the wrapper leaves shall be not more than 3 in number, none of which may be excessively large and coarse.

11. "Fairly firm" means that although the head is not firm, it is not soft or spongy.

12. "Serious damage" means any injury which causes the loss of a material portion of the edible part of the head. The loss of crispness due to freezing shall not be considered serious damage. Heads affected

with tipburn shall be considered as seriously damaged when any single spot is larger than one and one-half inches in length and/or three-fourths of an inch in width.

13. "Fairly uniform in size" means that not more than 10 percent, by count, of the heads in any one container may be one standard size smaller than the standard size head for the count packed.

Example of Standard Size Head - The standard size head for a 4 dozen pack is that size which will pack tightly 4 x 4 heads of uniform size in a layer in the crate, assuming that the head has the average number of wrapper leaves found on all the heads in the crate.

#### STANDARD PACK

Heads of lettuce shall be fairly uniform in size (13), and tightly packed in uniform layers according to the approved and recognized methods, provided that a "bridge" may be used with sizes smaller than 5 dozen count.

In order to allow for variations incident to proper packing, not more than a total of 15 percent of the containers in any lot may not meet the requirements of the Standard Pack, but no part of this tolerance shall be allowed for packs which are excessively loose in the layers.

Issued March 1, 1934.