

REPORT
OF A
SURVEY OF TRANSPORTATION
ON THE
STATE HIGHWAY SYSTEM
OF
CONNECTICUT



By
THE BUREAU OF PUBLIC ROADS
U. S. DEPARTMENT OF AGRICULTURE
AND
THE CONNECTICUT STATE HIGHWAY DEPARTMENT

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TABLE OF CONTENTS

	Page		Page
The Connecticut highway transportation survey (introduction).....	5	Highway utilization.....	67
The development of State control of highways.....	9	The service value of the highway system.....	69
State-aid and trunk-line highways.....	9	Connecticut and foreign motor vehicle use of the State highway system.....	70
Bridges.....	12	The transportation of commodities by motor truck.....	73
The regulation and taxation of motor vehicles.....	13	Comparison of motor truck and rail tonnage.....	76
Registration fees.....	14	Forecast of highway traffic.....	82
Gasoline tax.....	15	Estimate of Connecticut highway traffic in 1930.....	84
Property tax on motor vehicles.....	15	Appendices:	
Salient features of legislation.....	15	I. Types and lengths of State-aid roads by towns in the several population groups, July 1, 1923.....	87
State highway organization.....	16	II. Types and lengths of trunk-line highways by towns in the several population groups, July 1, 1923.....	90
The State highways.....	19	III. Analysis of details of disbursements by appropriations on Connecticut State highways from 1895 to July 1, 1923.....	93
State-aid roads.....	21	IV. Revenue receipts and expenditures of Connecticut by fiscal years for the 10-year period ended June 30, 1923.....	94
Trunk-line highways.....	21	V. Population of Connecticut towns.....	95
State highway expenditures.....	26	VI. Distribution of motor trucks by capacity groups at survey stations.....	98
State and town expenditures and receipts.....	27	VII. Motor truck capacity overloads by amount of excess load.....	99
Résumé of State highway activity to date.....	29	VIII. Motor truck gross weight overloads by amount of excess load.....	99
Economic changes affect road program.....	31	IX. Percentage of total gross weight on rear axle of motor trucks.....	100
Increase in motor vehicles.....	35	X. Average loads on trucks equipped with various tire types.....	100
The transportation survey.....	39	XI. Distribution of tire thickness and weight per inch of tire width, channel measurement, on rear tires of motor trucks.....	101
The methods of the survey.....	41		
Density of highway traffic.....	42		
Provision for dense traffic on certain highways.....	47		
Traffic density in relation to present surfaces.....	48		
Motor truck capacities and loading.....	49		
Analysis of motor truck traffic on the basis of capacity of vehicles.....	51		
Highways classified on basis of truck traffic.....	52		
Motor truck loading practices.....	59		
Motor truck overloading.....	60		
Rear axle loading.....	62		
Type of tire equipment.....	62		
Load per inch width of rear tire.....	63		
Appraisal of various measures of overloading.....	66		

APPENDIX I

TYPES AND LENGTHS OF STATE-AID ROADS BY TOWNS IN THE SEVERAL POPULATION GROUPS, JULY 1, 1923

1. GROUP A TOWNS (POPULATION, 0 TO 63 PERSONS PER SQUARE MILE)

Town	Mileage of various types								
	Total	Graded	Gravel	Stone surface	Water-bound macadam	Bituminous macadam	Bituminous concrete	Concrete	Brick, wood block, and granite block
Andover	2.11	0.27			1.84				
Ashford	5.90	.92	3.04		1.94				
Barkhamsted	4.23		4.23						
Bethany	.80	.21				0.59			
Bethlehem	1.29	.27	.02		1.00				
Bolton	.76	.71	.05						
Bozrah	1.99	1.02			.97				
Bridgewater	4.02				4.02				
Brookfield	3.45	.67			2.78				
Brooklyn									
Burlington	.56	.11	.45						
Canaan	1.95	.77	1.18						
Canterbury	3.54	1.16	.85		1.53				
Chaplin									
Colchester	2.10	.74	.55		.81				
Colebrook	6.36	.63	2.28		3.45				
Columbia	1.04	.26			.56	.22			
Cornwall	4.45	4.30	.15						
Coventry	3.97	.22	3.12		.63				
Durham	1.90				.94	.96			
Eastford	2.15	.25	1.90						
East Granby	6.33	.53	.72		1.07	4.01			
East Haddam	3.32				3.32				
Easton	4.86		2.97			1.89			
Ellington	5.12	.19	4.46		.47				
Franklin	3.42	.71	2.55		.16				
Goshen	2.35		.13		2.22				
Granby	3.11		.45		2.66				
Guilford	.43				.43				
Haddam	1.16	.09			1.07				
Hampton	1.57	.12			1.45				
Hartland	1.68	1.68							
Harwinton	5.83	3.43	.15		2.25				
Hebron	7.42	4.17	1.77		1.48				
Kent	.74	.74							
Killingworth	.52	.52							
Lebanon	6.29	1.17	2.36		2.76				
Ledyard	1.99	1.99							
Lisbon	5.15	.11	2.26		2.78				
Litchfield	1.02					1.02			
Lyme	.08	.08							
Madison	6.88	2.86	.92		3.05				
Mansfield	2.42	.15	2.27						
Marlborough									
Middlebury	5.97	2.77	3.20						
Monroe	3.20	.30		2.90					
Morris	6.59	3.11	.08		2.30	1.10			
New Fairfield	3.96	1.51	2.45						
New Hartford	1.57		1.57						
Newtown	2.09			.86	1.23				
Norfolk	7.84	1.66		3.23	2.95				
North Branford									
North Stonington	8.55	3.39	5.16						
Old Lyme	7.60	.07	3.45		1.08	3.00			
Oxford	6.91		2.54		4.37				
Pomfret	3.14				1.02	2.12			
Prospect	3.93	2.56			1.37				
Redding	7.37	2.58	2.05		2.74				
Roxbury	2.33	2.33							
Salem									
Salisbury	1.78	.25	.63		.90				
Scotland	2.97	.09	.90		1.98				
Sharon	5.82	.77	2.66		2.39				
Sherman	.82				.82				
Somers	.61					.61			
Southbury	4.84	.19	4.21		.44				
Sterling	5.29	1.36	2.04		1.89				
Tolland									
Union	1.85	1.31	.54						
Voluntown	5.02	1.33	2.91		.78				
Warren	3.46	3.46							
Washington	5.49	.89	.33		4.27				
Westbrook	3.61	.90		1.97	.74				
Weston	3.95	1.21	.95		1.79				
Willington	.18	.18							
Wilton	7.71	.09	6.10		1.52				
Wolcott	2.68	2.68							
Woodbridge	6.14		.55	2.06	2.74	.79			
Woodbury	2.23	1.25		.50	.48				
Woodstock	7.51		.20		7.31				
Total	267.22	67.29	81.35	11.52	90.75	16.31			

APPENDIX I.—TYPES AND LENGTHS OF STATE-AID ROADS BY TOWNS IN THE SEVERAL POPULATION GROUPS, JULY 1, 1923—Continued

2. GROUP B TOWNS (POPULATION, 64 TO 127 PERSONS PER SQUARE MILE)

Town	Mileage of various types								
	Total	Graded	Gravel	Stone surface	Water-bound macadam	Bituminous macadam	Bituminous concrete	Concrete	Brick, wood block, and granite block
Avon.....	3.47	0.22	2.37		0.88				
Bloomfield.....	6.78				4.99	1.77			
Canton.....	1.30	.16	.73		.41				
Cheshire.....	5.67	.16	3.76		.53			1.22	
Chester.....	4.24				4.24				
Clinton.....	3.35				3.35				
East Hampton.....	4.16	.35	1.07		2.28	.46			
East Lyme.....	5.45		3.33		.98	1.14			
Glastonbury.....	4.79				4.79				
Griswold.....	8.38			3.37	4.17			.84	
Middlefield.....	7.76		.72		7.04				
Montville.....	3.50			1.29	2.21				
New Milford.....	1.86		1.54					.32	
North Canaan.....	1.50		.15	1.35					
North Haven.....	6.45				6.07			.38	
Old Saybrook.....	6.81		1.72	5.09					
Preston.....	3.70				3.70				
Ridgefield.....	8.80		1.84		.52	1.10		5.34	
Rocky Hill.....	5.73			1.32	3.57	.84			
Simsbury.....	5.96				5.96				
South Windsor.....	5.86		.34		2.71	2.81			
Stafford.....									
Suffield.....	5.79				1.10	2.96	0.34	1.39	
Thompson.....	6.95	.18	2.35		.96	3.46			
Trumbull.....	5.89	.48	2.01		3.40				
Waterford.....	3.79				3.77	.02			
*Total.....	127.92	1.56	21.93	12.42	67.63	14.56	.34	9.49	

3. GROUP C TOWNS (POPULATION, 128 TO 319 PERSONS PER SQUARE MILE)

Beacon Falls.....	2.22		2.22						
Berlin.....	7.61	0.66			4.62	1.37		0.96	
Bethel.....	2.65	1.46	1.20						
Branford.....	4.38							4.38	
Cromwell.....	5.58	.09	3.52		1.04	1.13			
Darien.....	2.70							2.70	
East Haven.....	2.07				.77			1.30	
East Windsor.....	6.03		1.38	1.45	3.20				
Essex.....	6.44			2.27	2.74	1.43			
Farmington.....	.38				.38				
Groton.....	5.50	2.66			2.84				
Hamden.....	3.72				.07			3.65	
Killingly.....	2.69	.91			1.30	.48			
New Canaan.....	9.15				5.14	2.10	1.91		
Newington.....	9.72				6.86	2.73	.13		
Plainfield.....	4.57		3.70		.87				
Plymouth.....	2.53	1.78	.75						
Portland.....	1.67	.34	.81		.52				
Saybrook.....	2.99				1.89	1.10			
Shelton.....	5.60		2.10	1.44	1.84		.22		
Southington.....	3.13		.32		1.62	1.19			
Sprague.....	7.01		2.76		4.25				
Stonington.....	2.37	.13	1.85		.39				
Thomaston.....	1.68				.79			.89	
Watertown.....	9.51	1.30	2.33	.66	2.14			3.02	0.06
Westport.....	2.97		.31		2.12			.54	
Winchester.....	3.92			1.42	2.50				
Windsor.....	4.10				.08	3.95		.07	
Total.....	122.89	9.32	23.05	7.24	47.97	15.48	2.26	17.51	.06

4. GROUP D TOWNS (POPULATION, 320 TO 639 PERSONS PER SQUARE MILE)

Danbury.....									
Enfield.....	1.32				0.21	0.78	0.33		
Fairfield.....	7.04		2.08		2.77	1.98	.21		
Greenwich.....	4.66					.05	2.08	2.58	
Middletown.....	4.17				4.12				
Milford.....	7.35		1.31		2.40	2.51		1.13	
Orange ¹	11.33		.97		3.73	2.62		4.01	
Plainville.....									
Putnam.....	3.14				1.64	1.19	.31		
Seymour.....	4.72		3.61		.16		.14	.81	
Torrington.....	4.04		.08	3.96					
Vernon.....	3.28				3.28				
Wallington.....	3.13				2.06	1.07			
West Hartford.....	4.27				1.55	.02	.21	2.49	
Wethersfield.....	8.91	0.25			3.95	4.71			
Windham.....	2.57		2.57						
Windsor Locks.....	4.00				2.45	1.41		.14	
Total.....	73.93	.25	10.62	3.96	26.32	16.34	3.28	11.16	

¹ West Haven included with Orange.

APPENDIX I.—TYPES AND LENGTHS OF STATE-AID ROADS BY TOWNS IN THE SEVERAL POPULATION GROUPS, JULY 1, 1923—Continued

5. GROUP E TOWNS (POPULATION, 640 TO 1,279 PERSONS PER SQUARE MILE)

Town	Mileage of various types								
	Total	Graded	Gravel	Stone surface	Water-bound macadam	Bituminous macadam	Bituminous concrete	Concrete	Brick, wood block, and granite block
Bristol.....	4.41		2.63		1.41		0.15	0.22	
East Hartford.....	5.26				4.40	0.86			
Manchester.....	3.70				1.79	.63		1.28	
Naugatuck.....	1.85	0.11	.85		.25	.64			
Norwalk.....	4.24			1.60				2.58	
Norwich.....	5.94		.33		5.61				
Stamford.....	15.62		1.11		14.51				
Stratford.....	3.47	.82			1.27			1.38	
Total.....	44.49	.93	4.92	1.66	29.24	2.13	.15	5.46	

6. GROUP F TOWNS (POPULATION, 1,280 TO 6,399 PERSONS PER SQUARE MILE)

Ansonia.....	3.10				1.81		0.57		0.72
Derby.....	1.49				.08		1.09	0.32	
Meriden.....	3.94		0.14		1.41	1.20		1.19	
New Britain.....	4.96				4.96				
New London.....	5.00				4.20	.80			
Waterbury.....	3.84	0.94	.41				.94	1.55	
Total.....	22.33	.94	.55		12.46	2.00	2.60	3.06	.72

7. GROUP G TOWNS (POPULATION, 6,400 PERSONS AND MORE PER SQUARE MILE)

Bridgeport.....	2.52				2.31		0.21		
Hartford.....	1.67				1.50			0.17	
New Haven.....	3.56				2.00	0.36	.10	1.10	
Total.....	7.75				5.81	.36	.31	1.27	

8. RECAPITULATION (ALL POPULATION GROUPS)

Group	Population per square mile	Mileage of various types								
		Total	Graded	Gravel	Stone surface	Water-bound macadam	Bituminous macadam	Bituminous concrete	Concrete	Brick, wood block, and granite block
A.....	0-63.....	267.22	67.29	81.35	11.52	90.75	16.31			
B.....	64-127.....	127.92	1.55	21.93	12.42	67.63	14.56	0.34	9.49	
C.....	128-319.....	122.89	9.32	23.96	7.24	47.97	15.48	2.26	17.51	0.00
D.....	320-639.....	73.93	.25	10.62	3.96	28.32	16.34	3.28	11.16	
E.....	640-1,279.....	44.49	.93	4.92	1.66	29.24	2.13	.15	5.46	
F.....	1,280-6,399.....	22.33	.94	.55		12.46	2.00	2.60	3.06	.72
G.....	6,400 and more.....	7.75				5.81	.36	.31	1.27	
All towns.....		666.53	80.28	142.42	36.80	282.18	87.18	8.94	47.95	.78

APPENDIX II

TYPES AND LENGTHS OF TRUNK-LINE HIGHWAYS BY TOWNS IN THE SEVERAL POPULATION GROUPS, JULY 1, 1923

1. GROUP A TOWNS (POPULATION, 0 TO 63 PERSONS PER SQUARE MILE)

Town	Mileage of various types								
	Total	Graded	Gravel	Stone surface	Water-bound macadam	Bituminous macadam	Bituminous concrete	Concrete	Brick, wood block, and granite block
Andover	5.24		5.24						
Ashford	1.40	1.40							
Barkhamsted	6.18	5.43	.75						
Bethany	5.67		1.37		4.30				
Bethlehem	4.94	.71			4.23				
Bolton	5.65	1.03	.90	1.28	1.61	0.83			
Bozrah	4.14	2.72				1.42			
Bridgewater	4.01				4.01				
Brookfield	5.45	2.00	3.45						
Brooklyn	10.86	.49			7.00	3.37			
Burlington	2.44	1.50			.94				
Canaan	6.49		6.49						
Canterbury	.13		.13						
Chaplin	8.87	2.23	6.64						
Colchester	10.87		3.37	.34				7.16	
Colebrook	6.87		1.42		5.45				
Columbia	9.25	1.68	3.46		1.92	2.19			
Cornwall	10.60	8.94	1.06		.60				
Coventry	2.91		.79		2.12				
Durham	8.90				8.90				
Eastford	5.81		3.62		2.19				
East Granby	3.25		.07		2.28				
East Haddam	4.05				4.05				
Easton	5.83		2.13			3.70			
Ellington	6.77	.86	5.91						
Franklin	7.38		3.95						
Goshen	8.63				3.43				
Granby	10.38	.81			8.63	3.36			
Guilford	17.63				6.21	1.67			
Haddam	14.97			9.14	15.87	5.83			0.08
Hampton	4.73	1.99	.44		.96	1.34			
Hartland	6.96	5.39			1.57				
Harwinton	3.91							3.91	
Hebron	2.54	.41	.25		.18			1.70	
Kent	4.70	1.34	3.36						
Killingworth	6.41	1.70		2.18	2.53				
Lebanon	3.30		3.30						
Ledyard	7.20				5.55	1.65			
Lisbon	5.18		5.03		.15				
Litchfield	15.35	2.45	.97		9.69	.24	2.00		
Lyme	4.12				4.12				
Mudison	6.03				5.78	.09	.16		
Mansfield	17.49	2.19	13.34		1.96				
Marlborough	7.82	.06			1.48		6.28		
Middlebury	4.67	1.83	2.84						
Monroe	4.49			4.30	.19				
Morris	1.50				.45	1.11			
New Fairfield	2.22	1.78	.44						
New Hartford	5.93	.25	2.14	.63	2.91				
Newtown	11.70		6.49		5.21				
Norfolk	5.94	1.38		2.30	2.26				
North Branford	8.52				8.52				
North Stonington	9.15		.07			9.08			
Old Lyme	8.23		4.64		3.59				
Oxford	.32	.32							
Pomfret	8.81				8.81				
Prospect									
Redding	5.64		.65			4.99			
Roxbury	5.46	2.18			3.28				
Salem	6.46						6.46		
Salisbury	11.29	.63	7.93			.70	2.63		
Scotland									
Sharon	5.32		4.88		.44				
Sherman	3.11	1.02		1.29	.80				
Somers	9.89	5.44			1.07	3.38		.02	
Southbury	6.84	.66	3.98		2.20				
Sterling	3.49								
Tolland	7.32	2.51	2.82		1.99				
Union									
Voluntown									
Warren									
Washington	6.49				6.49				
Westbrook	4.01			1.72	2.29				
Weston									
Willington	10.62	5.08	2.45	2.46	.63				
Wilton	7.81		7.81						
Wolcott	1.04	.24	.03					.77	
Woodbridge	3.97			.63	3.34				
Woodbury	10.94	5.02	3.33	1.04	.33	1.22			
Woodstock	5.41		1.01		4.40				
Total	487.96	73.67	133.34	27.31	182.74	40.08	.24	30.49	.09

APPENDIX II.—TYPES AND LENGTHS OF TRUNK-LINE HIGHWAYS BY TOWNS IN THE SEVERAL POPULATION GROUPS, JULY 1, 1923—Continued

2. GROUP B TOWNS (POPULATION, 64 TO 127 PERSONS PER SQUARE MILE)

Town	Mileage of various types								
	Total	Graded	Gravel	Stone surface	Water-bound macadam	Bituminous macadam	Bituminous concrete	Concrete	Brick, wood block, and granite block
Avon	8.32				8.32				
Bloomfield	9.93				9.65	0.28			
Canton	6.85		3.35	1.25	2.25				
Cheshire	6.66				.22		0.65	5.69	
Chester	2.76				2.76				
Clinton	6.87			3.03	3.51			.33	
East Hampton	6.63	3.15			3.48				
East Lyme	4.86				1.86	3.00			
Glastonbury	10.01				2.58	1.23	1.13	5.07	
Griswold	2.85		1.82		1.03				
Middlefield	3.48				3.48				
Montville	7.99				4.96			3.03	
New Milford	12.47	.34		2.88	9.25				
North Canaan	8.70	.01	4.28	2.68	1.20			.53	
North Haven	10.77				3.61		7.14	.02	
Old Saybrook	8.26		.46		7.80				
Preston	6.74				4.21	2.53			
Ridgefield	10.69	.74	6.50		3.45				
Rocky Hill	3.42				3.19			.23	
Simsbury	10.09			.51	7.88	.35	1.35	.38	
South Windsor	5.09						5.09		
Stafford	10.41		1.82	.88	2.69	5.02			
Suffield	5.07				2.83			2.24	
Thompson	11.52		3.73		1.83	4.89	.69		
Trumbull	5.25				5.25				
Waterford	12.75		.18		3.46	1.82		7.29	
Total	198.34	4.24	22.14	11.23	95.50	24.37	16.05	24.81	

3. GROUP C TOWNS (POPULATION, 128 TO 319 PERSONS PER SQUARE MILE)

Beacon Falls	4.78						2.78	2.00	
Berlin	5.48						.83	4.65	
Bethel	7.04				2.43	2.51		2.10	
Branford	7.03			0.99	2.30	2.08	.37	1.29	
Canaan									
Cromwell	4.57				3.05	.80	.72		
Darien	3.90					1.18	2.67	.12	0.03
East Haven	3.86				2.20	.40		1.26	
East Windsor	4.79					.55	4.21		.03
Essex	3.33				3.33				
Farmington	13.18				4.35	3.43	4.21	1.18	
Groton	10.27				6.09			4.18	
Hamden	9.97	0.62			2.69		1.48	5.18	
Killingly	17.27		5.10		6.47	4.63	.30	.65	
Newington	3.55							3.55	
Plainfield	14.10		5.94		7.86			.30	
Plymouth	4.30				2.65		1.02	.60	.03
Portland	10.13	2.52	.29		4.94		2.38		
Saybrook	2.60				2.60				
Shelton	4.94		3.66	.36	.35		.57		
Southington	11.83			2.77	3.38		3.74	1.94	
Sprague									
Stonington	12.17		.01		2.43	2.77		6.96	
Thomaston	8.46		.65	.45	3.53		.03	3.66	.04
Watertown									
Westport	4.67						4.23	.30	.14
Winchester	10.78		1.28		8.30	1.03	.17		
Windsor	7.73				2.39		1.34	3.87	.13
Total	190.73	3.14	17.09	4.57	71.35	19.38	31.01	43.79	.40

4. GROUP D TOWNS (POPULATION, 320 TO 639 PERSONS PER SQUARE MILE)

Danbury	15.29	1.43	9.15		3.94			0.77	
Enfield	11.66				5.00	0.96	3.83	1.76	0.01
Fairfield	9.33		4.45	0.26	.86		3.76		
Greenwich	4.56						3.81	.65	
Middletown	11.19			2.22	4.52		2.22	2.23	.10
Milford	6.09				.03	2.33	.21	3.52	
Orange ¹	10.34					.42		9.92	
Plainville	6.69				4.76		1.93		
Putnam	11.01	.03	4.69		5.29		.25	.75	
Seymour	4.65		.55				3.96	.12	.02
Torrington	13.20	1.86	.25	.15	7.43	.55		2.96	
Vernon	5.19				4.69	.50			
Wallingford	6.32		.06				5.15	1.11	
West Hartford	12.39				4.38	1.53	5.09	1.39	
Wethersfield	5.37					3.03		2.34	
Windham	12.57	.70	9.63		1.60			.64	
Windsor Locks	2.97				2.17	.04		.76	
Total	148.82	4.02	28.78	2.63	44.67	9.36	30.31	28.92	.13

¹ West Haven included with Orange.

HIGHWAY TRANSPORTATION SURVEY

APPENDIX II.—TYPES AND LENGTHS OF TRUNK-LINE HIGHWAYS BY TOWNS IN THE SEVERAL POPULATION GROUPS, JULY 1, 1923—Continued

5. GROUP E TOWNS (POPULATION, 640 TO 1,279 PERSONS PER SQUARE MILE)

Town	Mileage of various types								
	Total	Graded	Gravel	Stone surface	Water-bound macadam	Bituminous macadam	Bituminous concrete	Concrete	Brick, wood block, and granite block
Bristol	5.02		1.35		0.40		2.99	0.86	0.02
East Hartford	8.86						8.00	.85	.06
Manchester	8.84		1.61		5.09		1.04	1.10	
Naugatuck	6.54	0.37	2.70		.33		3.13	.01	
Norwalk	6.51		1.29				1.36	3.75	.11
Norwich	7.59	.65			6.05	0.35		.54	
Stamford	1.41						1.30	.11	
Stratford	7.63		4.17				2.36	1.10	
Total	53.22	1.02	11.12		11.67	.35	20.18	8.52	.16

6. GROUP F TOWNS (POPULATION, 1,280 TO 6,399 PERSONS PER SQUARE MILE)

Ansonia	1.53						1.53		
Derby	4.65		1.00		0.48		1.14	2.03	
Meriden	5.79				3.69		3.04	.02	0.04
New Britain	3.79				.60		.60	2.50	
New London	2.48							2.48	
Waterbury	6.03		1.28		.54		.95	3.26	
Total	25.27		2.28		5.31		7.35	10.29	.04

7. GROUP G TOWNS (POPULATION, 6,400 PERSONS AND MORE PER SQUARE MILE)

Bridgeport	2.58						2.58		
Hartford	2.96						.67	2.29	0.09
New Haven	4.16					0.60		.77	
Total	9.70					.60	6.04	2.97	.09

8. RECAPITULATION (ALL POPULATION GROUPS)

Group	Population per square mile	Mileage of various types								
		Total	Graded	Gravel	Stone surface	Water-bound macadam	Bituminous macadam	Bituminous concrete	Concrete	Brick, wood block, and granite block
A	0-63	487.96	73.67	133.34	27.31	182.74	40.08	0.24	30.49	0.09
B	64-127	198.34	4.24	22.14	11.23	95.50	24.37	16.05	24.81	
C	128-319	190.73	3.14	17.09	4.57	71.35	19.38	31.01	43.79	.40
D	320-639	148.82	4.02	28.78	2.63	44.67	9.36	30.31	28.92	.13
E	640-1,279	53.22	1.02	11.12		11.67	.35	20.18	8.52	.16
F	1,280-6,399	25.27		2.28		5.31		7.35	10.29	.04
G	6,400 and more	9.70					.60	6.04	2.97	.09
All towns		1,114.04	86.09	214.75	45.74	411.44	94.14	111.18	149.79	.91

APPENDIX III

ANALYSIS OF DETAILS OF DISBURSEMENTS BY APPROPRIATION ON CONNECTICUT STATE HIGHWAYS FROM 1895 TO JULY 1, 1923

(Data from 1923 report, State highway department, item 2, and other State highway department records)

Years	Total	State-aid roads						Trunk-line roads						Bridges		Administration, engineering, and supervision	
		Total	Per cent ¹	Construction	Per cent ²	Repairs	Per cent ³	Total	Per cent ¹	Construction ⁴	Per cent ⁴	Repairs ⁵	Per cent ⁴	Total	Per cent ¹	Total	Per cent ¹
1895	\$1,084															\$1,084	100.0
1896	43,540	\$30,643	70.4	\$30,643	100.0											12,903	29.6
1897	122,348	112,374	91.9	112,374	100.0											9,969	8.1
1898	78,722	72,943	92.7	72,943	100.0											5,779	7.3
1899	117,974	111,869	94.8	111,869	100.0											6,104	5.2
1900	99,169	89,577	90.3	89,577	100.0											9,593	9.7
1901	183,024	170,160	92.5	170,160	100.0											13,767	7.5
1902	129,429	117,854	91.1	117,854	100.0											11,575	8.9
1903	202,809	185,140	91.3	185,140	100.0											17,669	8.7
1904	181,589	162,781	89.6	162,781	100.0											18,808	10.4
1905	260,404	233,016	93.1	233,016	100.0											17,388	6.9
1906	167,886	136,675	81.4	136,675	100.0			\$6,152	3.7	\$6,152	100.0				25,658	14.9	
1907	272,802	242,666	88.9	242,666	100.0											30,226	11.1
1908	346,470	280,078	83.7	272,598	94.0	\$17,480	6.0	17,471	5.0	17,471	100.0				38,920	11.3	
1909	863,524	551,478	63.9	513,064	93.0	38,414	7.0	258,162	29.9	258,162	100.0				53,883	6.2	
1910	1,260,946	563,285	46.9	417,216	74.1	146,069	25.9	569,816	47.4	569,816	100.0				67,844	5.7	
1911	1,585,730	802,493	50.3	536,813	66.1	265,680	39.9	598,515	37.7	598,515	100.0				94,721	6.0	
1912	1,453,512	444,111	30.6	337,466	76.0	106,655	24.0	980,502	64.0	263,661	28.3	\$666,841	71.7		78,897	5.4	
Total, 1895-1912	7,302,842	4,407,143	60.3	3,742,845	84.9	664,298	15.1	2,380,618	32.6	1,713,777	72.0	666,841	28.0		515,078	7.1	
1913	3,483,575	908,301	27.9	764,436	77.9	213,865	22.1	2,371,158	68.0	1,401,231	59.1	969,922	40.9		144,121	4.1	
1914	3,423,218	1,431,124	41.8	1,318,091	92.1	113,033	7.9	1,803,315	52.7	1,001,371	55.5	801,944	44.5		188,779	5.5	
1915	2,235,391	777,090	34.8	620,092	79.7	157,004	20.3	1,203,412	57.9	361,093	27.9	932,314	72.1	\$1,209	162,652	7.3	
1916	1,950,948	369,380	18.8	196,020	53.3	170,360	46.5	1,271,774	65.2	188,961	14.8	1,082,813	85.2	148,104	169,690	8.7	
1917	2,528,222	204,983	11.7	108,529	36.8	186,454	63.2	1,759,244	69.6	150,189	8.5	1,609,055	91.5	208,277	175,717	6.9	
1918	3,569,306	435,177	12.2	240,505	55.3	194,672	44.7	2,556,387	71.6	601,770	23.5	1,954,617	76.5	384,466	193,277	5.4	
1919	2,385,934	267,410	10.7	67,031	26.0	190,379	74.0	1,556,020	65.3	368,721	23.7	1,187,299	76.3	407,321	165,184	6.9	
1920	5,034,366	886,367	15.7	610,898	68.9	275,469	31.1	3,486,810	61.9	1,286,625	36.9	2,200,185	63.1	965,806	295,383	5.2	
1921	7,127,961	815,044	11.4	431,745	53.0	383,299	47.0	5,110,147	71.7	2,908,675	56.9	2,201,472	43.1	862,265	310,505	4.4	
1922	5,907,849	805,897	13.4	533,125	66.2	272,772	33.8	4,269,692	71.3	2,594,276	60.8	1,675,416	39.2	806,803	315,558	5.3	
1923	6,912,856	594,522	8.6	313,571	52.7	280,951	47.3	6,663,320	81.9	3,451,973	61.0	2,211,347	39.0	326,041	328,974	4.8	
Total, 1913-1923	45,249,597	7,633,201	16.9	5,194,043	68.0	2,439,158	32.0	31,141,174	68.8	14,314,890	46.0	16,826,284	54.0	4,025,382	2,449,840	5.4	
Total, 1895-1923	52,552,439	12,040,344	22.9	8,936,888	17.0	3,103,456	5.9	33,521,792	63.8	16,028,667	47.8	17,408,126	52.2	4,025,382	2,964,918	5.6	

¹ Percentage of total expenditures for the period.
² Percentage of total expenditures for the period on State-aid roads.
³ "Construction" includes contract and repair reconstruction items.
⁴ Percentage of total expenditure for the period on trunk-line highways.

APPENDIX IV

REVENUE RECEIPTS OF CONNECTICUT BY FISCAL YEARS FOR THE 10-YEAR PERIOD ENDED JUNE 30, 1923

(Data from comparative financial statement; State Register and Manual, 1924; trust funds not included)

Fiscal year	Total	Railroads and street railways ¹	Per cent	Insurance corporations and companies ²	Per cent	Other corporations ³	Per cent	Inheritance tax ⁴	Per cent	Town tax ⁵	Per cent	Highway refunds and receipts ⁶	Per cent	Motor vehicles						All other receipts	Per cent
														Total	Per cent	Fees and fines ⁷	Per cent	Gas tax ⁸	Per cent		
1914	\$6,825,809	\$1,580,502	23.2	\$644,767	9.4	\$609,394	13.8	\$669,674	9.8	\$1,101,332	16.2	\$330,418	4.8	\$406,623	6.0	\$406,623	6.0	-----	-----	\$1,183,009	17.3
1915	6,972,100	1,091,290	15.7	685,209	9.8	922,434	13.2	807,203	11.6	1,173,710	16.8	398,439	5.8	536,970	7.7	536,970	7.7	-----	-----	1,354,695	19.4
1916	11,532,807	1,347,306	11.7	1,327,708	11.5	2,783,670	24.1	1,310,704	11.4	1,750,974	15.2	249,086	2.1	768,728	6.7	768,728	6.7	-----	-----	1,994,371	17.3
1917	15,387,000	2,433,992	15.8	1,563,555	10.2	4,756,487	30.9	1,050,988	6.8	1,749,026	11.4	400,360	2.6	1,080,589	7.0	1,080,589	7.0	-----	-----	2,350,003	15.3
1918	15,189,327	1,370,340	9.1	1,474,833	9.7	4,219,049	27.7	1,527,165	10.1	1,750,000	11.5	459,494	3.0	1,285,164	8.5	1,285,164	8.5	-----	-----	3,103,242	20.4
1919	8,014,483	1,481,2	.2	824,805	10.3	497,341	6.2	850,873	10.6	1,750,000	21.8	477,040	5.9	1,361,898	17.0	1,361,898	17.0	-----	-----	2,250,445	28.0
1920	15,040,168	1,533,457	10.2	1,326,372	8.8	3,270,650	21.7	1,987,767	13.2	1,750,000	11.6	726,903	4.8	1,816,810	12.0	1,816,810	12.0	-----	-----	2,678,209	17.7
1921	17,248,835	1,026,471	6.0	1,257,745	7.3	4,597,125	26.6	1,855,856	10.8	1,750,000	10.2	1,333,456	7.7	2,126,773	12.3	2,126,773	12.3	-----	-----	2,701,409	15.7
1922	20,794,735	1,873,309	9.0	1,189,043	5.7	3,778,989	18.2	2,327,809	11.2	2,000,000	9.6	1,733,593	8.3	3,852,151	18.6	3,409,048	16.4	\$443,103	2.2	4,039,801	19.4
1923	22,220,278	2,574,199	11.6	1,273,621	5.7	2,719,528	12.2	2,573,704	11.5	2,000,000	9.1	1,504,805	6.8	4,993,706	22.5	4,227,767	19.0	765,939	3.5	4,580,715	20.6
Total	139,275,542	15,432,437	11.1	11,567,768	8.3	28,466,907	20.4	14,961,893	10.7	16,775,042	12.1	7,614,194	5.5	18,229,412	13.1	17,020,370	12.2	1,209,042	.9	26,237,899	18.8

¹ State Register and Manual for 1924, pp. 362 and 363, Items Nos. 27, 28, and 29.
² Ibid., Items Nos. 12, 22, 23, and 26.
³ Ibid., Items Nos. 4, 25, 26, 30, and 40.
⁴ Ibid., Item No. 11.
⁵ Ibid., Item No. 35.

⁶ Ibid., Items Nos. 8, 9, and 10.
⁷ Ibid., Items Nos. 20 and 21.
⁸ Ibid., Item No. 7.
⁹ Nine months only.

EXPENDITURES OF CONNECTICUT BY FISCAL YEARS FOR THE 10-YEAR PERIOD ENDED JUNE 30, 1923

(Data from State and State highway department records)

Fiscal year	Total	Legislative and executive	Per cent	Judicial	Per cent	Penal and reformatory	Per cent	Educational	Per cent	Charitable and humane	Per cent	Agriculture	Per cent	Highways and bridges	Per cent	Motor-vehicle department	Per cent	Interest on State bonds	Per cent	All other expenditures	Per cent
1914	\$9,293,412	\$428,332	4.6	\$669,609	7.2	\$438,777	4.7	\$1,150,431	12.3	\$1,532,147	16.5	\$242,083	2.6	\$3,423,219	36.8	-----	-----	\$409,957	4.4	\$998,798	10.9
1915	7,930,830	294,606	3.7	602,000	7.6	422,039	5.4	1,253,079	15.8	1,171,544	14.8	203,985	2.6	2,235,361	28.2	-----	-----	471,827	5.9	1,216,389	15.3
1916	7,875,945	153,344	1.9	664,923	8.4	439,267	5.6	1,215,634	15.4	1,428,537	18.1	215,980	2.7	1,950,948	24.8	-----	-----	505,184	6.4	1,302,128	16.5
1917	9,747,176	326,130	3.4	708,566	7.2	504,519	5.2	1,327,833	13.6	1,690,877	17.4	264,300	2.7	2,628,222	25.9	-----	-----	498,055	5.1	1,842,465	19.3
1918	12,603,034	97,388	.8	737,167	5.8	649,461	5.2	1,439,345	11.4	2,956,072	23.5	399,503	3.2	3,569,306	28.3	180,680	1.4	488,740	3.9	2,085,372	16.5
1919	10,179,605	271,758	2.7	599,681	5.9	690,377	6.8	1,415,785	13.9	2,214,371	21.8	315,791	3.1	2,385,934	23.4	125,090	1.2	360,862	3.5	1,799,956	17.7
1920	119,374,857	115,517	.6	873,472	4.5	815,394	4.2	2,353,251	12.1	3,870,639	20.0	722,618	3.7	5,634,366	29.1	261,961	1.4	478,005	2.5	4,249,664	21.9
1921	19,288,022	370,294	1.9	924,276	4.8	879,102	4.6	2,367,237	12.3	4,090,178	21.2	778,822	4.0	7,127,961	37.0	342,632	1.8	461,805	2.3	1,945,715	10.1
1922	20,437,811	162,977	.8	945,689	4.6	1,051,600	5.1	2,699,096	13.2	4,699,549	23.0	891,385	4.4	5,997,849	29.4	299,594	1.5	618,290	3.0	3,071,716	15.0
1923	21,203,978	367,811	1.7	910,005	4.3	983,467	4.6	3,026,827	14.3	4,703,850	22.2	680,167	3.2	6,912,856	32.6	-----	-----	656,865	3.1	2,697,022	12.7
Total	137,984,670	2,588,157	1.9	7,690,448	5.6	6,874,039	5.0	18,248,618	13.2	28,357,764	20.6	4,714,634	3.4	41,766,021	30.3	1,496,174	1.1	4,949,590	3.5	21,249,225	15.4

¹ Includes \$2,278,815 invested in United States bonds for soldier-relief fund.

APPENDIX V

POPULATION OF CONNECTICUT TOWNS¹

[Grouped on basis of number of persons per square mile of land area]

Town	Area in square miles	Persons per square mile	Groups by number of persons per square mile							
			A	B	C	D	E	F	G	
			0 to 63	64 to 127	128 to 319	320 to 639	640 to 1,279	1,280 to 6,399	6,400 and more	
Andover	15.8	25	390							
Ansonia	5.7	3,095							17,643	
Ashford	39.4	17	673							
Avon	20.3	76		1,534						
Barkhamsted	38.2	19	719							
Beacon Falls	8.9	179			1,593					
Berlin	23.5	183			4,298					
Bethany	19.5	21	411							
Bethel	15.2	211			3,201					
Bethlehem	19.3	28	536							
Bloomfield	26.6	90		2,394						
Bolton	14.7	31	448							
Bozrah	18.8	46	858							
Branford	23.3	294			6,627					
Bridgeport	18.0	7,975							143,555	
Bridge-water	15.5	81	481							
Bristol	26.4	781					20,620			
Brookfield	19.5	46	896							
Brooklyn	27.2	61	1,655							
Burlington	30.8	36	1,199							
Canaan	40.8	14	561							
Canterbury	41.3	22	896							
Canton	30.2	84		2,549						
Chaplin	20.3	19	385							
Cheshire	29.6	96		2,855						
Chester	15.3	110		1,675						
Clinton	15.6	78		1,217						
Colchester	50.0	41	2,050							
Colbrook	31.9	15	492							
Columbia	21.9	32	706							
Cornwall	48.4	17	834							
Coventry	35.1	45	1,582							
Cromwell	12.5	196			2,454					
Danbury	44.4	503			22,325					
Darien	14.6	287			4,184					
Derby	5.0	2,248							11,238	
Durham	22.8	42	959							
Eastford	27.0	18	496							
East Granby	17.3	61	1,056							
East Haddam	52.8	44	2,312							
East Hampton	34.2	70		2,394						
East Hartford	17.8	654					11,648			
East Haven	12.4	294			3,520					
East Lyme	34.4	67		2,291						
Easton	24.9	41	1,017							
East Windsor	26.1	143			3,741					
Ellington	34.4	62	2,127							
Enfield	34.6	330				11,719				
Essex	11.2	251			2,815					
Farfield	31.5	364				11,475				
Farmington	24.0	160			3,844					
Franklin	14.4	30	552							
Glastonbury	53.6	104		5,592						
Goshen	40.4	17	675							
Granby	39.9	34	1,342							
Greenwich	42.3	523				22,123				
Griswold	34.6	122		4,220						
Groton	32.7	282			9,227					
Guilford	46.2	61	2,803							
Haddam	43.5	40	1,736							
Hamden	32.2	267			8,611					
Hartford	23.7	20	475							
Hartford	17.0	8,120							158,038	
Hartland	34.0	13	448							
Harwinton	31.9	63	2,020							
Hebron	34.1	27	915							
Kent	48.0	23	1,066							
Killingly	49.0	167			8,178					
Killingworth	35.2	15	531							
Lebanon	49.5	27	1,343							
Ledyard	38.0	31	1,161							
Lisbon	16.1	54	667							
Litchfield	50.3	63	3,180							
Lyme	34.5	20	674							
Madison	39.7	47	1,657							
Mansfield	26.5	603				18,370				
Mansfield	44.6	58	2,574							
Marlborough	22.5	13	308							
Meriden	16.0	2,173							34,764	
Middlebury	19.1	56	1,067							
Middlefield	12.4	84		1,047						
Middletown	40.4	548				22,129				
Milford	24.9	409				10,193				
Monroe	26.3	44	1,161							
Montville	40.7	84		3,411						

¹ Population figures from United States census, 1920.

APPENDIX V.—POPULATION OF CONNECTICUT TOWNS—Continued

Town	Area in square miles	Persons per square mile	Groups by number of persons per square mile						
			A	B	C	D	E	F	G
			0 to 63	64 to 127	128 to 319	320 to 639	640 to 1,279	1,280 to 6,399	6,400 and more
Morris	15.9	31	400						
Naugatuck	16.5	912					15,061		
New Britain	13.4	4,426						59,316	
New Canaan	22.7	171			3,896				
New Fairfield	22.3	21	468						
New Hartford	36.7	49	1,781						
New Haven	21.6	7,456							162,537
Newington	13.4	177			2,381				
New London	5.1	5,037						26,688	
New Milford	61.4	78		4,781					
Newtown	59.1	47	2,751						
Norfolk	44.2	28	1,229						
North Branford	26.3	44	1,110						
North Canaan	19.0	102			1,933				
North Haven	21.3	92			1,968				
North Stonington	53.2	21	1,144						
Norwalk	24.1	1,151					27,743		
Norwich	27.4	1,063					29,686		
Old Lyme	24.7	86	946						
Old Saybrook	17.1	36		1,463					
Orange	23.2	569				16,614			
Oxford	35.3	28	998						
Plainfield	40.1	196			7,926				
Plainville	9.2	447				4,114			
Plymouth	20.9	284			5,942				
Pomfret	40.3	36	1,454						
Portland	25.6	142			3,644				
Preston	29.8	92		2,743					
Prospect	13.4	20	266						
Putnam	18.7	449				8,397			
Redding	31.4	42	1,315						
Ridgefield	34.3	79		2,707					
Rocky Hill	13.9	117		1,633					
Roxbury	26.7	24	647						
Salem	27.2	15	424						
Salisbury	59.0	42	2,497						
Saybrook	14.0	166			2,325				
Scotland	17.8	22	391						
Seymour	14.6	465				6,781			
Sharon	59.1	27	1,585						
Shelton	30.5	311			9,475				
Sherman	23.0	23	533						
Simsbury	29.8	99		2,958					
Somers	29.1	57	1,673						
Southbury	39.5	28	1,093						
Southington	37.1	227			8,440				
South Windsor	28.3	76		2,142					
Sprague	12.6	198			2,500				
Stafford	58.2	93		5,407					
Stamford	37.4	1,071				40,067			
Sterling	25.9	49	1,266						
Stonington	36.9	277			10,236				
Stratford	18.9	653				12,347			
Suffield	41.7	98		4,070					
Thomaston	13.1	306			3,993				
Thompson	46.1	110		5,065					
Tolland	37.0	28	1,040						
Torrington	37.4	589				22,055			
Trumbull	23.3	111		2,597					
Union	28.2	9	257						
Vernon	17.8	500				8,896			
Voluntown	37.5	17	656						
Wallingford	36.7	327				12,010			
Warren	27.1	13	350						
Washington	41.1	39	1,619						
Waterbury	28.2	3,252					91,715		
Waterford	36.9	107		3,935					
Watertown	28.6	212			6,060				
Westbrook	16.4	52	849						
West Hartford	21.4	414				8,854			
Weston	19.6	36	703						
Westport	20.8	246			5,114				
Wethersfield	13.1	331				4,342			
Willington	33.0	36	1,200						
Wilton	26.9	48	1,284						
Winchester	34.6	261			9,019				
Windham	24.1	573				13,801			
Windsor	29.5	191			5,620				
Windsor Locks	7.1	500				3,584			
Wolcott	20.2	36	719						
Woodbridge	19.5	60	1,170						
Woodbury	35.5	48	1,698						
Woodstock	59.1	30	1,767						
Total	4,820.0	286	87,800	74,571	148,853	200,384	175,531	240,364	444,128

¹ Average.

APPENDIX V.—POPULATION OF CONNECTICUT TOWNS—Continued
RECAPITULATION (ALL POPULATION GROUPS)

Group	Population per square mile	Number of towns	Percentage of total number of towns	Total population in group	Percentage of total population	Average population of towns
A.....	0-63.....	80	47.6	87,800	6.36	1,098
B.....	64-127.....	26	15.6	74,571	5.40	2,868
C.....	128-319.....	28	16.6	148,853	10.78	5,316
D.....	320-639.....	17	10.1	269,384	15.17	12,317
E.....	640-1,279.....	8	4.7	175,531	12.71	21,941
F.....	1,280-6,399.....	6	3.6	240,364	17.41	40,061
G.....	6,400 and more.....	3	1.8	444,123	32.17	148,043
Total.....		168	100.0	1,380,631	100.00	

APPENDIX V-A

INCREASE OR DECREASE IN POPULATION OF CONNECTICUT TOWNS FROM 1910 TO 1920¹

Town ²	Ratio of 1920 population to 1910 population	Town ²	Ratio of 1920 population to 1910 population	Town ²	Ratio of 1920 population to 1910 population
Union.....	79.81	Monroe.....	115.86	Berlin.....	115.28
Hartland.....	82.35	North Branford.....	133.25	Windsor.....	134.51
Marlborough.....	100.33	Coventry.....	98.50	Cromwell.....	112.15
Warren.....	84.95	Bozrah.....	99.65	Plainfield.....	117.96
Canaan.....	79.91	Brookfield.....	81.38	Sprague.....	98.00
Colebrook.....	88.33	Madison.....	121.05	Bethel.....	84.41
Killingworth.....	83.48	Newtown.....	91.33	Watertown.....	157.14
Salem.....	95.71	Wilton.....	75.26	Southington.....	129.52
Ashford.....	100.74	Woodbury.....	91.29	Westport.....	120.07
Cornwall.....	82.09	New Hartford.....	83.06	Essex.....	102.55
Goshen.....	100.00	Sterling.....	98.67	Winchester.....	103.91
Voluntown.....	84.21	Westbrook.....	89.27	Hamden.....	147.19
Eastford.....	96.68	Lisbon.....	105.21	Stonington.....	111.81
Barkhamstead.....	83.12	Middlebury.....	127.63	Groton.....	142.06
Chaplin.....	88.50	Somers.....	101.20	Branford.....	109.59
Hampton.....	81.47	Mansfield.....	130.19	East Haven.....	106.12
Lyme.....	90.34	Woodbridge.....	134.02	Plymouth.....	118.34
Prospect.....	41.93	Brooklyn.....	89.07	Darien.....	106.03
Bethany.....	83.03	East Granby.....	132.49	Thomaston.....	113.02
New Fairfield.....	84.93	Guilford.....	93.40	Shelton.....	144.76
North Stonington.....	104.00	Ellington.....	106.40	Wallingford.....	107.66
Canterbury.....	103.22	Harwinton.....	140.27	Wethersfield.....	137.92
Scotland.....	82.14	Litchfield.....	105.82	Enfield.....	120.57
Kent.....	96.79	East Lyme.....	119.57	Fairfield.....	187.07
Sherman.....	93.67	East Hampton.....	100.18	Milford.....	233.46
Roxbury.....	77.29	Avon.....	114.73	West Hartford.....	184.15
Andover.....	104.85	South Windsor.....	95.15	Plainville.....	142.74
Hebron.....	102.35	Clinton.....	95.52	Putnam.....	113.96
Lebanon.....	87.89	New Milford.....	95.42	Seymour.....	141.68
Sharon.....	84.30	Ridgefield.....	86.81	Vernon.....	97.92
Bethlehem.....	97.45	Canton.....	93.30	Windsor Locks.....	95.66
Norfolk.....	79.75	Middlefield.....	101.06	Danbury.....	94.99
Oxford.....	97.84	Montville.....	121.64	Greenwich.....	134.28
Southbury.....	88.64	Old Saybrook.....	96.50	Middletown.....	106.65
Tolland.....	92.36	Bloomfield.....	131.46	Windham.....	109.49
Franklin.....	104.74	North Haven.....	87.31	Orange.....	147.39
Woodstock.....	95.56	Preston.....	143.08	Torrington.....	130.96
Bolton.....	103.47	Stafford.....	103.32	Stratford.....	216.15
Bridgewater.....	80.16	Cheshire.....	143.61	East Hartford.....	143.13
Ledyard.....	107.59	Suffield.....	105.96	Manchester.....	134.66
Morris.....	73.27	Simsbury.....	116.59	Bristol.....	152.71
Columbia.....	109.28	North Canaan.....	89.03	Naugatuck.....	118.30
Granby.....	97.03	Glastonbury.....	116.59	Stamford.....	138.94
Burlington.....	84.07	Waterford.....	127.05	Norwich.....	114.58
Pomfret.....	82.75	Chester.....	113.04	Norwalk.....	108.41
Weston.....	84.59	Thompson.....	105.23	Meriden.....	124.99
Willington.....	107.91	Trumbull.....	158.16	Derby.....	116.43
Wolcott.....	126.99	Rocky Hill.....	137.57	Ansonia.....	125.39
Old Lyme.....	80.10	Griswold.....	99.69	Waterbury.....	121.40
Washington.....	92.67	Portland.....	106.39	New Britain.....	121.66
Haddam.....	88.66	East Windsor.....	111.27	New London.....	121.65
Colchester.....	95.79	Farmington.....	110.52	New Haven.....	140.66
Easton.....	96.67	Saybrook.....	121.81	Bridgeport.....	140.66
Durham.....	96.18	Killingly.....	124.58	Hartford.....	139.55
Redding.....	81.32	New Canaan.....	106.21		
Salisbury.....	70.99	Newington.....	140.97		
East Haddam.....	95.45	Beacon Falls.....	137.22		

¹ Calculated from United States census, 1920.

² Towns arranged in ascending order of density of population

APPENDIX VI

DISTRIBUTION OF MOTOR TRUCKS BY CAPACITY GROUPS AT SURVEY STATIONS

Survey station	Number of trucks per day	Distribution of motor trucks by capacity groups									
		1/4-1 1/4 tons		2-2 1/4 tons		3-4 tons		5-5 1/2 tons		6-7 1/2 tons	
		Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
1	138	104	74.9	18	13.2	10	7.6	6	4.1		0.2
2	75	51	68.5	17	22.2	5	6.6	2	2.7		
3	81	54	66.2	12	15.2	8	10.3	6	7.7	1	.6
4	75	54	71.0	7	9.7	8	10.7	5	7.8	1	.8
5	79	67	84.8	5	6.2	5	6.2	2	2.6		.2
6	810	455	56.2	111	13.7	79	9.7	150	18.5	15	1.9
7	118	89	75.3	14	12.1	11	9.2	4	3.3		.1
8	604	335	55.5	100	16.6	84	14.0	76	12.6	9	1.4
9	562	336	59.7	79	14.1	65	11.6	72	12.8	10	1.8
10	466	316	67.7	78	16.8	38	8.2	32	6.9	2	.4
11	322	155	48.1	58	18.0	46	14.4	58	17.9	5	1.6
12	530	378	71.2	64	12.1	39	7.4	45	8.6	4	.7
13	193	125	64.6	29	15.3	13	6.8	23	11.8	3	1.5
14	346	196	56.7	64	18.4	30	8.6	52	15.2	4	1.1
15	424	321	75.6	55	13.0	27	6.5	20	4.7	1	.2
16	118	93	78.7	14	11.5	8	6.5	5	4.2		.3
17	266	41	15.3	14	5.2	5	1.8	5	1.8	1	.3
18	192	192	100.0	37	19.2	19	9.9	15	7.8	3	1.5
19	271	221	81.7	29	10.6	12	4.4	8	2.9	1	.3
20	247	171	69.1	40	16.2	23	9.3	13	5.2	1	.2
21	192	138	71.6	27	14.2	17	9.0	9	4.7	1	.5
22	161	123	76.1	20	12.9	11	7.0	7	4.0		
23	49	36	72.3	6	12.4	3	6.3	4	9.0		
24	50	38	75.1	7	14.4	1	2.6	4	7.6		.3
25	62	41	66.8	12	18.8	6	8.9	3	5.5		
26	160	121	78.0	19	11.8	9	5.4	11	6.7		.1
27	263	187	71.1	31	12.0	24	9.0	19	7.1	2	.8
28	104	59	58.6	17	16.8	8	8.0	16	15.4	4	3.2
29	138	101	73.5	19	13.8	8	5.6	7	5.0	3	2.1
30	166	116	70.0	24	14.3	9	5.7	15	8.8	2	1.2
31	91	67	73.5	12	13.5	6	6.8	5	5.0	1	1.2
32	92	66	71.9	14	14.9	8	8.8	4	4.4		
33	180	140	77.6	20	11.3	10	5.8	9	5.0	1	.3
34	68	65	74.0	10	11.7	9	9.8	4	4.5		
35	176	91	51.8	26	14.5	19	10.9	38	21.5	2	1.3
36	261	126	48.4	43	16.5	31	11.9	55	21.1	6	2.1
37	114	90	79.4	9	8.0	9	7.6	5	4.2	1	.8
38	354	185	52.3	56	15.8	44	12.3	61	17.4	8	2.2
39	129	82	63.7	17	12.9	10	8.2	17	13.3	3	1.9
40	271	169	62.4	32	11.7	26	9.6	39	14.3	5	2.0
41	220	132	59.9	23	10.7	16	7.4	47	21.0	2	1.0
42	246	156	63.2	34	13.9	19	7.9	35	14.4	2	.8
43	297	212	71.3	29	9.8	22	7.5	32	10.7	2	.7
44	230	173	75.2	21	9.0	22	9.8	13	5.6	1	.4
45	434	300	69.1	56	12.9	38	8.7	38	8.8	2	.5
46	269	141	52.4	44	16.4	29	10.6	53	19.7	2	.9
47	78	48	62.2	13	16.3	10	12.2	7	8.7		.6
48	289	199	68.9	36	12.4	27	9.5	22	7.6	5	1.6
49	334	255	76.4	21	6.3	23	6.8	33	9.9	2	.6
50	330	223	67.5	35	10.7	30	9.2	37	11.2	5	1.4
51	58	61	105.0	9	15.5	10	17.2	7	12.1	1	1.7
52	115	71	61.3	13	11.5	13	11.6	14	11.8	4	3.3
53	278	167	60.0	27	9.8	30	10.8	47	17.0	7	2.4
54	117	76	65.1	15	12.7	11	9.5	12	10.1	3	2.6
55	114	90	78.7	9	8.2	9	7.7	6	5.4		
56	214	116	54.4	33	15.3	26	12.2	34	15.9	5	2.2
57	59	50	84.7	5	8.1	2	3.6	2	3.6		

APPENDIX VII

MOTOR-TRUCK CAPACITY OVERLOADS BY AMOUNT OF EXCESS LOAD

Amount of excess load (pounds)	Capacity (tons)															
	½		¾		1		1¼		1½		2		2½		3	
	Trucks	Per cent	Trucks	Per cent	Trucks	Per cent	Trucks	Per cent	Trucks	Per cent	Trucks	Per cent	Trucks	Per cent	Trucks	Per cent
1-999	765	83.0	188	58.0	902	70.2	375	66.7	194	41.6	570	33.7	248	31.9	29	27.6
1,000-1,999	102	11.1	85	26.3	277	21.6	140	24.9	135	28.9	502	29.7	243	31.3	22	21.0
2,000-2,999	31	3.4	32	9.9	66	5.1	36	6.4	70	15.0	290	17.2	140	18.0	20	19.0
3,000-3,999	14	1.5	12	3.7	15	1.1	8	1.4	36	7.7	165	9.8	62	8.0	20	19.0
4,000-4,999	4	.4	4	1.2	10	.8	2	.4	23	4.9	65	3.8	51	6.6	9	8.6
5,000-5,999	4	.4	2	.6	5	.4	1	.2	3	.6	44	2.6	18	2.3	4	3.8
6,000-6,999			1	.3	5	.4			5	1.1	28	1.7	6	.8		
7,000-7,999					1	.1			1	.2	14	.8	3	.4	1	1.0
8,000-8,999	2	.2			1	.1					6	.4	4	.5		
9,000-9,999					2	.2					4	.2	2	.2		
10,000 and over											2	.1				
Total	922	100.0	324	100.0	1,284	100.0	562	100.0	467	100.0	1,690	100.0	777	100.0	105	100.0

Amount of excess load (pounds)	Capacity (tons)															
	3½		4		5		5½		6		6½		7½		All capacities	
	Trucks	Per cent	Trucks	Per cent	Trucks	Per cent	Trucks	Per cent	Trucks	Per cent	Trucks	Per cent	Trucks	Per cent	Trucks	Per cent
1-999	334	25.0	8	14.8	669	23.6	27	36.5			42	51.2	4	44.5	4,355	41.4
1,000-1,999	290	21.7	19	35.2	789	27.9	25	31.0	3	60.0	15	18.3	3	33.3	2,648	25.2
2,000-2,999	228	17.1	12	22.2	578	20.4	10	13.5			9	11.0		22.2	1,624	14.5
3,000-3,999	212	15.9	9	16.6	365	12.8	5	6.7			10	12.2			933	8.9
4,000-4,999	119	8.9	2	3.7	188	6.6	6	8.1			3	3.7			436	4.1
5,000-5,999	78	5.8	2	3.7	94	3.3	1	1.4			1	1.2			258	2.4
6,000-6,999	32	2.4	1	1.9	54	1.9	1	1.4	1	20.0	1	1.2			134	1.3
7,000-7,999	21	1.6			34	1.2					2	2.4			77	.7
8,000-8,999	11	.8	1	1.9	44	1.6									69	.6
9,000-9,999	5	.4			15	.5									28	.3
10,000 and over	6	.4			2	.1	1	1.4							11	.1
Total	1,336	100.0	54	100.0	2,832	100.0	74	100.0	5	100.0	82	100.0	9	100.0	10,523	100.0

APPENDIX VIII

MOTOR-TRUCK GROSS WEIGHT OVERLOADS BY AMOUNT OF EXCESS LOAD

Amount of excess load (pounds)	Capacity (tons)															
	3½		4		5		5½		6		6½		7½		All capacities	
	Trucks	Per cent	Trucks	Per cent	Trucks	Per cent	Trucks	Per cent	Trucks	Per cent	Trucks	Per cent	Trucks	Per cent	Trucks	Per cent
1-999	10	52.6			242	43.4	5	25.0	2	66.7	48	47.5	18	51.4	325	44.1
1,000-1,999	6	31.6	1	100.0	107	19.2	6	25.0			24	23.7	8	22.8	151	20.5
2,000-2,999	2	10.5			79	14.2	7	35.0			8	7.9	3	8.6	99	13.5
3,000-3,999					50	9.0	1	5.0			13	12.9	4	11.4	68	9.3
4,000-4,999	1	5.3			42	7.5	1	5.0	1	33.3	5	5.0	1	2.9	51	6.9
5,000-5,999					28	5.0								2	2.9	3.9
6,000-6,999					8	1.4									9	1.2
7,000-7,999											1	1.0			1	.1
8,000-8,999							1	5.0			1	1.0			1	.1
9,000-9,999					2	.3									2	.3
10,000 and over											1	1.0			1	.1
Total	19	100.0	1	100.0	558	100.0	20	100.0	3	100.0	101	100.0	35	100.0	737	100.0

HIGHWAY TRANSPORTATION SURVEY

APPENDIX IX

PERCENTAGE OF TOTAL GROSS WEIGHT ON REAR AXLE OF MOTOR TRUCKS

Motor truck capacity (tons)	Less than 80 per cent of capacity load		80 per cent to 100 per cent of capacity load		Over 100 per cent of capacity load		Maximum load ¹	
	Average gross weight	Portion of gross weight on rear axle	Average gross weight	Portion of gross weight on rear axle	Average gross weight	Portion of gross weight on rear axle	Gross weight	Portion of gross weight on rear axle
	Pounds	Per cent	Pounds	Per cent	Pounds	Per cent	Pounds	Per cent
1/4	2,280	58.3	2,470	61.9	4,280	62.9	9,350	78.2
3/4	4,510	55.4	6,040	60.1	6,490	64.1	11,510	68.7
1	2,280	63.5	3,670	68.1	5,380	74.3	11,600	75.0
1 1/4	4,490	55.6	5,410	61.2	6,590	66.9	10,320	71.2
1 1/2	5,460	60.3	7,460	66.2	9,410	69.7	13,410	75.5
2	7,450	62.3	9,440	67.3	11,430	70.1	21,690	74.0
2 1/2	8,430	63.3	10,470	67.2	13,420	72.4	20,450	77.3
3	10,370	62.9	12,500	63.6	15,400	69.6	19,390	67.9
3 1/2	12,450	65.9	14,460	69.3	18,410	71.6	25,310	74.9
4	12,460	66.5	16,540	73.2	19,470	77.4	22,410	77.7
5	15,450	66.2	20,460	73.4	23,410	74.4	30,430	78.0
5 1/2	13,500	65.2	22,540	74.5	23,510	76.4	27,270	74.6
6 1/2	16,490	66.0	24,450	76.4	25,000	74.5	28,290	76.7
7 1/2	15,280	68.9	24,430	72.8	26,650	72.9	30,400	80.6

¹ Does not include extremely rare and infrequent loads.

APPENDIX X

AVERAGE LOADS ON TRUCKS EQUIPPED WITH VARIOUS TIRE TYPES

Truck capacity (tons)	Average net load (pounds)			Average gross load (pounds)		
	Type of tires			Type of tires		
	Pneumatic front and rear	Solid front and rear	Pneumatic front, solid rear	Pneumatic front and rear	Solid front and rear	Pneumatic front, solid rear
1/4	710	2,340	1,260	2,940	6,100	3,720
3/4	1,020	3,280	2,830	5,130	7,540	7,420
1	1,380	2,450	1,960	4,270	6,260	4,700
1 1/4	1,540	3,380	2,460	5,230	7,900	6,470
1 1/2	1,960	3,050	2,730	6,830	8,380	6,070
2	2,500	3,820	3,870	9,100	10,450	10,230
2 1/2	4,160	4,660	4,740	11,020	11,640	11,610
3	2,970	4,840	4,650	10,960	13,250	12,860
3 1/2	4,890	6,160	5,260	14,350	15,990	14,930
4	5,000	6,890	6,170	15,030	17,660	16,140
5	6,770	8,660	9,170	16,130	20,160	20,540
5 1/2	3,150	8,500	5,920	15,150	20,450	17,530
6 1/2	8,600	10,210	9,340	21,000	22,610	21,650
7 1/2	9,500	9,500	10,260	22,660	22,260	21,730

¹ Based on only two cases.² Based on only four cases.

APPENDIX XI

TABLE A.—DISTRIBUTION OF TIRE THICKNESS AND WEIGHT PER INCH OF TIRE WIDTH, CHANNEL MEASUREMENT, REAR TIRES

TRUCKS WITH LESS-THAN-CAPACITY LOADS

Weight (pounds per inch width)	Total number of trucks	Number of trucks by groups of tire thickness in inches						
		0-0.4	0.5-0.9	1-1.4	1.5-1.9	2-2.4	2.5-2.9	3 and over
100.....	5			2		2	1	
200.....	70			7	12	21	16	14
300.....	498		2	44	148	172	105	27
400.....	772		3	77	277	226	145	44
500.....	693	1	1	62	238	218	130	43
600.....	459		3	15	130	177	122	12
700.....	231			15	78	87	43	8
800.....	62			6	23	20	11	2
900.....	17			1	4	9	3	
1,000.....	3					3		
1,100.....								
1,200.....								
Total.....	2 810	1	9	229	910	935	576	150
Per cent.....	100.0	0.1	0.3	8.1	32.4	33.3	20.5	5.3
Median weight (pounds per inch width).....	460			431	458	472	466	427

TABLE B.—DISTRIBUTION OF TIRE THICKNESS AND WEIGHT PER INCH OF TIRE WIDTH, CHANNEL MEASUREMENT, REAR TIRES

LOADS IN EXCESS OF RATED CAPACITY

Weight (pounds per inch width)	Total number of trucks	Number of trucks by groups of tire thickness in inches						
		0-0.4	0.5-0.9	1-1.4	1.5-1.9	2-2.4	2.5-2.9	3 and over
100.....								
200.....	3			1	1			1
300.....	20			2	6	8	3	1
400.....	104			12	32	28	15	17
500.....	317		3	34	112	84	64	20
600.....	480	1	1	31	134	169	128	16
700.....	563			23	145	208	165	22
800.....	201			9	48	75	62	7
900.....	64			5	15	31	11	2
1,000.....	14				4	5	4	1
1,100.....	2				1	1		
1,200.....	2						1	
Total.....	1,770	1	4	117	498	610	453	87
Per cent.....	100.0	0.1	0.2	6.6	28.1	34.5	25.6	4.9
Median weight (pounds per inch width).....	642			582	623	658	660	581

TABLE C.—DISTRIBUTION OF TIRE THICKNESS AND WEIGHT PER INCH OF TIRE WIDTH, CHANNEL MEASUREMENT, REAR TIRES

LOADS IN EXCESS OF 25,000 POUNDS GROSS WEIGHT

Weight (pounds per inch width)	Total number of trucks	Number of trucks by groups of tire thickness in inches						
		0-0.4	0.5-0.9	1-1.4	1.5-1.9	2-2.4	2.5-2.9	3 and over
100.....								
200.....								
300.....								
400.....								
500.....								
600.....	3					2	1	
700.....	4					1	3	
800.....	64			3	4	27	25	5
900.....	46			1	5	20	19	1
1,000.....	20				3	9	8	
1,100.....	6				1	1	3	1
1,200.....								
Total.....	144			4	13	61	59	7
Per cent.....	100.0			2.8	9.0	42.3	41.0	4.9
Median weight (pounds per inch width).....	752					755	755	