

SAMPLING AND ESTIMATION DETAILS FOR THE CONNECTICUT PORTION OF  
THE NATIONAL INVENTORY OF SOIL AND WATER CONSERVATION NEEDS

BU-181-M

Thomas M. Beetle

July, 1965

Abstract

This paper provides some details on the sampling and estimation procedures for each county in Connecticut. It is intended as a supplement to BU-180-M.

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Sampling and estimation procedures in Connecticut were straightforward and followed the general procedures described in BU-180-M. No adjusted procedures were thought to be required.

The four numbers under the county name in the following tables denote sample design, sample unit size, sampling rate, and estimation procedure according to the following code:

First  
Number

Sample Design

1

Stratified within county

2

Stratified within land resource  
unit within county

3

Combination of Code 1 and Code 2

Second  
Number

Sample Size

1

100 acres

2

250 acres

3

400 acres

Third  
Number

Approximate sampling rate percentage

Fourth  
Number

Estimation Procedure

1

Single expansion ratio for entire  
county

2

Separate expansion ratio for each  
land resource unit in the county

Water estimates are excluded from the River Basin estimates in all  
counties.

FAIRFIELD COUNTY, CONNECTICUT

2, 1, 2, 2

Adjusted Census Ac.  
405,079

Adjusted Sample Ac.  
8,372

Estimated Ac.  
405,147

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	29,269	25,251	215,562	44,769	85,835	4,468

<u>River Basin</u> - New England Drainage Basin	<u>Estimated Ac.</u>
011100 - Housatonic River	143,388
011200 - Hudson River	14,353
011800 - Small coastal watersheds	242,938

HARTFORD COUNTY, CONNECTICUT

2, 1, 2, 2

Adjusted Census Ac.  
474,240

Adjusted Sample Ac.  
10,200

Estimated Ac.  
474,215

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	83,055	28,918	238,506	47,125	67,895	8,728

<u>River Basin</u> - New England Drainage Basin	<u>Estimated Ac.</u>
011000 - Connecticut River	415,748
011800 - Small coastal watersheds	49,739

LITCHFIELD COUNTY, CONNECTICUT

2, 1, 2, 2

Adjusted Census Ac.  
600,324

Adjusted Sample Ac.  
12,244

Estimated Ac.  
600,368

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	77,557	63,457	404,224	32,060	20,755	2,330

<u>River Basin</u> - New England Drainage Basin	<u>Estimated Ac.</u>
011000 - Connecticut River	79,686
011100 - Housatonic River	503,290
011800 - Small coastal watersheds	15,062

MIDDLESEX COUNTY, CONNECTICUT

2, 1, 2, 2

Adjusted Census Ac.  
239,360

Adjusted Sample Ac.  
5,061

Estimated Ac.  
239,359

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	23,401	7,283	157,894	30,971	18,497	1,320

<u>River Basin</u> - New England Drainage Basin	<u>Estimated Ac.</u>
011000 - Connecticut River	176,011
011800 - Small coastal watersheds	62,028

NEW HAVEN COUNTY, CONNECTICUT  
2, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
390,400	8,300			390,402		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	42,516	10,626	184,292	70,399	77,510	5,033
<u>River Basin</u> - New England Drainage Basin						<u>Estimated Ac.</u>
011000 - Connecticut River						18,810*
011100 - Housatonic River						148,265*
011800 - Small coastal watersheds						218,294

Notes: \*Revised River Basin estimates.

NEW LONDON COUNTY, CONNECTICUT  
2, 1, 2, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
430,080	8,863			430,108		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	38,796	23,115	303,007	46,456	17,544	1,139
<u>River Basin</u> - New England Drainage Basin						<u>Estimated Ac.</u>
010900 - Thames River						184,009
010910 - Quinebaug						33,451
011000 - Connecticut River						60,040
011800 - Small coastal watersheds						151,469

TOLLAND COUNTY, CONNECTICUT  
2, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
266,260	5,482			266,267		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	32,162	18,369	184,474	22,401	7,482	1,409
<u>River Basin</u> - New England Drainage Basin						<u>Estimated Ac.</u>
010900 - Thames River						172,667
011000 - Connecticut River						92,191

WINDHAM COUNTY, CONNECTICUT  
2, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
330,240	6,900			330,240		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	28,286	17,525	247,151	26,611	3,062	7,610
<u>River Basin</u> - New England Drainage Basin						<u>Estimated Ac.</u>
010900 - Thames River						107,021
010910 - Quinebaug						215,609