

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

BU-193-M

Thomas M. Beetle

July, 1965

Abstract

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

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Summary tables for eleven complete counties and parts of two other counties in West Virginia were compiled from complete measurement of the soil conditions in the areas. Samples for these areas were drawn and plotted on aerial photographs, but, in general, were not mapped and measured for use in estimating soil conditions. In some counties, the samples were mapped and measured to provide data for updating land use on the completely measured data.

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.

BARBOUR COUNTY, WEST VIRGINIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>	<u>Estimated Ac.</u>
215,040	2,800	127,470
		87,575 (Measured)
		215,045

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Est. and Measured:</u>	39,325	77,241	90,314	7,380	793	- -
<u>River Basin</u> - Ohio River Drainage Basin					<u>Estimated Ac.</u>	
070200 - Monongahela River					87,575	
070210 - Tygart River					109,259	
070211 - West Fork Tygart River					18,211	

Notes: Acreages for this county are a combination of estimated sample data and completely measured data.

BERKELEY COUNTY, WEST VIRGINIA

(Completely Measured)

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>	<u>Measured Ac.</u>				
202,240	- -	199,060				
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>S-S-E Data:</u>	75,255	22,826	79,374	16,713	4,892	- -
<u>LCU Data:</u>	75,255	22,826	79,374	16,713	4,892	- -
<u>River Basin</u> - Middle Atlantic Drainage Basin					<u>Measured Ac.</u>	
020700 - Potomac River					199,060	

BOONE COUNTY, WEST VIRGINIA

2, 1, 1, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>	<u>Estimated Ac.</u>				
320,640	3,200	320,641				
<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>	4,308	7,914	292,080	6,412	9,319	601
<u>River Basin</u> - Ohio River Drainage Basin					<u>Estimated Ac.</u>	
070740 - Coal River					219,841	
070800 - Guyandot River					100,199	

BRAXTON COUNTY, WEST VIRGINIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>	<u>Estimated Ac.</u>				
330,880	6,800	330,903				
<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>	39,326	80,246	200,485	5,988	1,412	3,455
<u>River Basin</u> - Ohio River Drainage Basin					<u>Estimated Ac.</u>	
070500 - Little Kanawha					179,561	
070730 - Elk River					147,887	

BROOKE COUNTY, WEST VIRGINIA

2, 1, 2, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>			
56,960	1,300		56,964			
<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>	9,773	5,257	26,336	11,042	4,382	175
<u>S-S-E Data:</u>	11,184	13,470	12,580	8,485	979	1,802
<u>River Basin</u>						<u>Estimated Ac.</u>
070000 - Ohio River Drainage Basin						56,789

Notes: Estimates from sample data, and data from complete measurement of the county are both available. The Soil-Slope-Erosion data are from complete measurement of the county.

CABELL COUNTY, WEST VIRGINIA

2, 1, 2, *

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>			
178,560	3,682		178,556			
<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>	21,782	19,828	117,958	1,481	16,442	1,067
<u>River Basin</u> - Ohio River Drainage Basin						<u>Estimated Ac.</u>
070000 - Ohio River Drainage Basin						45,826
070800 - Guyandot River						131,663

Notes: *Ratios were computed for each Land Capability Unit subclass to up-date land use on 1950 completely measured data.

CALHOUN COUNTY, WEST VIRGINIA

2, 1, 2, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>			
179,840	4,000		179,851			
<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>	22,709	40,739	109,122	6,252	- -	1,034
<u>River Basin</u> - Ohio River Drainage Basin						<u>Estimated Ac.</u>
070500 - Little Kanawha						178,817

CLAY COUNTY, WEST VIRGINIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>			
218,880	4,588		218,891			
<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>	8,589	15,263	192,799	2,242	- -	- -
<u>River Basin</u> - Ohio River Drainage Basin						<u>Estimated Ac.</u>
070500 - Little Kanawha						204,580
070720 - Gauley River						9,542
070730 - Elk River						4,769

DODDRIDGE COUNTY, WEST VIRGINIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>			
204,160	4,200		204,161			
<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>	22,895	46,523	131,929	827	1,604	389
<u>River Basin</u> - Ohio River Drainage Basin						<u>Estimated Ac.</u>
070000 - Ohio River Drainage Basin						155,162
070500 - Little Kanawha						48,610

FAYETTE COUNTY, WEST VIRGINIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>			
421,760	9,000		421,742			
<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>	11,998	18,512	356,088	11,528	21,040	2,577
<u>River Basin</u> - Ohio River Drainage Basin						<u>Estimated Ac.</u>
070700 - Kanawha River						103,093
070710 - New River						189,549
070720 - Gauley River						126,523

GILMER COUNTY, WEST VIRGINIA

2, 1, 2, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>			
216,960	4,900		216,969			
<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>	24,488	45,521	145,724	399	- -	841
<u>River Basin</u> - Ohio River Drainage Basin						<u>Estimated Ac.</u>
070500 - Little Kanawha						216,128

GRANT COUNTY, WEST VIRGINIA

(Completely Measured)

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>		<u>Measured Ac.</u>			
290,754	- -		290,775			
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>S-S-E Data:</u>	24,162	71,144	207,967	599	590	1,458
<u>Adj. LCU Data:</u>	20,300	59,729	205,700	740	3,248	1,058
<u>River Basin</u> - Middle Atlantic Drainage Basin						<u>Measured Ac.</u>
020720 - Potomac River, South Branch						289,717

Excluded Acreage:

National Forest 14,126 }
Inundations 400 }

Excluded from adjusted LCU data only.

GREENBRIER COUNTY, WEST VIRGINIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
656,640		11,430		656,640		
<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>	60,653	149,070	428,738	8,382	9,480	287
<u>River Basin</u> - Ohio River Drainage Basin					<u>Estimated Ac.</u>	
070711 - Greenbrier River					421,099	
070720 - Gauley River					235,254	

HAMPSHIRE COUNTY, WEST VIRGINIA

2, 1, 2, *

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
408,960		5,671		400,642		
				8,315 (Measured)		
				408,957		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Est. and Measured:</u>	42,861	67,384	290,094	6,098	222	2,312
<u>S-S-E Data:</u>	54,404	66,857	277,306	7,309	772	2,312
<u>River Basin</u> - Middle Atlantic Drainage Basin					<u>Estimated Ac.</u>	
020700 - Potomac River					406,645	

Notes: *This county had both sample data and completely measured data. The sample data was expanded by computing a separate ratio for each Land Capability Unit; i.e.,

$$R = \frac{\text{Total completely measured acreage for LCU}}{\text{Total sample acreage for LCU}}$$

The Soil-Slope-Erosion data are from completely measured data only.

HANCOCK COUNTY, WEST VIRGINIA

(Completely Measured)

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Measured Ac.</u>		
52,480		--		52,480		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>S-S-E Data:</u>	10,490	6,489	18,852	13,190	3,236	3,423
<u>LCU Data (Revised):</u>	8,481	5,220	28,225	8,685	1,869	--
<u>River Basin</u>					<u>Measured Ac.</u>	
070000 - Ohio River Drainage Basin					52,480	

HARDY COUNTY, WEST VIRGINIA
2, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>			
326,064	6,200		326,058			
<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>	23,246	62,218	237,546	1,734	- -	1,315
<u>River Basin</u> - Middle Atlantic Drainage Basin						<u>Estimated Ac.</u>
020700 - Potomac River						131,262
020720 - Potomac River, South Branch						193,481
<u>Excluded Acreage:</u>						
National Forest						48,336

HARRISON COUNTY, WEST VIRGINIA
2, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>			
267,520	5,600		267,523			
<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>	33,820	98,844	94,352	27,947	10,605	1,959
<u>River Basin</u> - Ohio River Drainage Basin						<u>Estimated Ac.</u>
070211 - West Fork Tygart River						265,564

JACKSON COUNTY, WEST VIRGINIA
(Completely Measured)

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>		<u>Measured Ac.</u>			
296,320	-		296,320			
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>S-S-E Data:</u>	45,804	106,930	137,318	2,799	2,934	554
<u>LCU Data (Revised):</u>	45,804	106,939	137,318	2,799	2,906	554
<u>River Basin</u>						<u>Measured Ac.</u>
070000 - Ohio River Drainage Basin						295,766

JEFFERSON COUNTY, WEST VIRGINIA
(Completely Measured)

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>		<u>Measured Ac.</u>			
135,040	-		135,040			
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>S-S-E Data:</u>	82,940	24,484	21,303	3,038	3,275	- -
<u>LCU Data*:</u>	78,340	23,134	21,303	6,277	5,986	- -
<u>River Basin</u> - Middle Atlantic Drainage Basin						<u>Measured Ac.</u>
020730 - Shenandoah River						135,040

Notes: *LCU data up-dates land use.

This county was all coded as 268 (LRU B14a). The map indicates there is also some B13a but we did not set up a new code number.

KANAWHA COUNTY, WEST VIRGINIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
581,120		11,669		581,117		
<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>	22,663	58,218	433,507	13,147	50,147	3,436
<u>River Basin - Ohio River Drainage Basin</u>						<u>Estimated Ac.</u>
070700 - Kanawha River						365,284
070710 - New River						4,980
070720 - Gauley River						9,960
070730 - Elk River						153,433
070740 - Coal River						44,024

LEWIS COUNTY, WEST VIRGINIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
250,880		5,200		250,933		
<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>	24,562	98,883	118,087	6,275	2,316	820
<u>River Basin - Ohio River Drainage Basin</u>						<u>Estimated Ac.</u>
070211 - West Fork Tygart River						177,731
070500 - Little Kanawha						72,382

LINCOLN COUNTY, WEST VIRGINIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
280,320		5,300		280,320		
<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>	16,610	22,585	237,951	2,433	635	106
<u>River Basin - Ohio River Drainage Basin</u>						<u>Estimated Ac.</u>
070740 - Coal River						26,445
070800 - Guyandot River						253,769

LOGAN COUNTY, WEST VIRGINIA

2, 1, 1, 2

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
291,840		2,900		291,828		
<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>	5,535	11,975	254,191	6,944	12,679	503
<u>River Basin - Ohio River Drainage Basin</u>						<u>Estimated Ac.</u>
070740 - Coal River						40,252
070800 - Guyandot River						251,073

McDOWELL COUNTY, WEST VIRGINIA

2, 1, 1, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
341,120	3,500			341,109		
<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>	1,267	7,211	301,444	14,034	16,763	390
<u>River Basin</u> - Ohio River Drainage Basin						<u>Estimated Ac.</u>
070920 - Big Sandy River, Tug Fork						340,719

MARION COUNTY, WEST VIRGINIA

1, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
197,760	4,000			197,758		
<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>	16,362	56,215	109,112	3,608	12,014	445
<u>River Basin</u> - Ohio River Drainage Basin						<u>Estimated Ac.</u>
070200 - Monongahela River						197,313

MARSHALL COUNTY, WEST VIRGINIA

(Completely Measured)

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Measured Ac.</u>		
195,840	-			195,840		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>S-S-E Data:</u>	34,817	70,821	79,375	3,207	6,338	1,282
<u>LCU Data:</u>	34,817	70,774	79,300	4,745	-	*6,204
<u>LCU Data (Revised):</u>	34,817	70,812	79,375	5,016	4,538	1,282
<u>River Basin</u>						<u>Measured Ac.</u>
070000 - Ohio River Drainage Basin						194,558

Notes: *This Water and Misc. acreage, included in the LCU Revised data, has been broken down as follows:

Made Land	- - -	2,625
Mine Dumps	- -	189
Gravel Pits	- -	114
Urban	- - - -	1,994
Water	- - - -	1,282
		<u>6,204</u>

MASON COUNTY, WEST VIRGINIA

(Completely Measured)

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Measured Ac.</u>		
276,480	-			276,480		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>S-S-E Data:</u>	54,510	78,800	130,830	5,010	6,680	650
<u>LCU Data:</u>	54,510	78,800	130,830	5,010	6,680	650
<u>River Basin</u> - Ohio River Drainage Basin						<u>Measured Ac.</u>
070700 - Kanawha River						275,830

MERCER COUNTY, WEST VIRGINIA

2, 1, 2, 1

Adjusted Census Ac.

266,880

Adjusted Sample Ac.

5,600

Estimated Ac.

266,903

<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>	26,929	47,805	169,052	9,817	12,201	1,096

River Basin - Ohio River Drainage Basin

070710 - New River

Estimated Ac.

265,807

MINERAL COUNTY, WEST VIRGINIA

2, 1, 2, 1

Adjusted Census Ac.

211,200

Adjusted Sample Ac.

4,100

Estimated Ac.

211,207

<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>	36,118	35,707	133,785	1,547	3,451	618

River Basin - Middle Atlantic Drainage Basin

020710 - Potomac River, North Branch

Estimated Ac.

210,589

MINGO COUNTY, WEST VIRGINIA

2, 1, 1, 2

Adjusted Census Ac.

270,720

Adjusted Sample Ac.

2,700

Estimated Ac.

270,729

<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>	2,306	5,314	237,441	7,420	17,748	501

River Basin - Ohio River Drainage Basin

070000 - Ohio River Drainage Basin

070920 - Big Sandy River, Tug Fork

Estimated Ac.

30,083

240,145

MONONGALIA COUNTY, WEST VIRGINIA

1, 1, 2, 1

Adjusted Census Ac.

233,600

Adjusted Sample Ac.

4,800

Estimated Ac.

233,613

<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>	18,790	61,666	145,033	2,241	2,774	3,115

River Basin - Ohio River Drainage Basin

070200 - Monongahela River

070210 - Tygart River

070220 - Cheat River

Estimated Ac.

182,512

14,599

33,387

MONROE COUNTY, WEST VIRGINIA

2, 1, 2, 1

Adjusted Census Ac.
302,720

Adjusted Sample Ac.
6,400

Estimated Ac.
302,743

<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>	40,872	114,762	145,269	1,796	- -	47

River Basins - Middle Atlantic and Ohio River Drainage Basins

Estimated Ac.

020700 - Potomac River	14,191
020710 - Potomac River, North Branch	174,977
070710 - New River	4,730
070711 - Greenbrier River	108,798

MORGAN COUNTY, WEST VIRGINIA

(Completely Measured)

Adjusted Census Ac.
149,120

Adjusted Sample Ac.
- -

Measured Ac.
149,120

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>S-S-E Data:</u>	25,414	3,269	101,476	15,904	2,457	600
<u>LCU Data:</u>	25,414	3,269	101,476	15,881	2,455	*625
<u>LCU Data (Revised):</u>	25,414	3,269	101,476	15,904	2,457	600

River Basin - Middle Atlantic Drainage Basin

Measured Ac.

020700 - Potomac River	148,520
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Notes: *The LCU data have been revised to agree with the Soil-Slope-Erosion by land use data. The 625 acres of Water and Misc. was broken down as follows:

<u>LCU</u>	<u>Other</u>	<u>Urban</u>	<u>Total Acres</u>
9	23	2	25
+ Water - - - - -			600
			625

NICHOLAS COUNTY, WEST VIRGINIA

2, 1, 2, 1

Adjusted Census Ac.
415,360

Adjusted Sample Ac.
8,595

Estimated Ac.
415,401

<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>	38,425	34,796	332,034	9,133	- -	1,015

River Basin - Ohio River Drainage Basin

Estimated Ac.

070720 - Gauley River	313,134
070730 - Elk River	101,252

OHIO COUNTY, WEST VIRGINIA

2, 1, 2, 2

Adjusted Census Ac.
68,480

Adjusted Sample Ac.
1,475

Estimated Ac.
68,484

<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>	16,572	25,675	14,345	5,663	6,082	139

River Basin

070000 - Ohio River Drainage Basin

Estimated Ac.
68,345

PENDLETON COUNTY, WEST VIRGINIA

(Completely Measured)

Adjusted Census Ac.
338,716

Adjusted Sample Ac.
--

Measured Ac.
338,716

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>S-S-E Data:</u>	37,370	87,606	317,816	271	364	1,373
<u>LCU Data:</u>	36,412	85,911	214,244	271	505	1,373

River Basin - Middle Atlantic Drainage Basin

020720 - Potomac River, South Branch

Measured Ac.
337,343

Excluded Acreage:

National Forest 106,084 (excluded from LCU data only)

Notes: A 2% sample was drawn for this county. The National Forest acreages were estimated from the 2% sample and then were subtracted from the LCU completely measured acreages.

PLEASANTS COUNTY, WEST VIRGINIA

2, 1, 2, 2

Adjusted Census Ac.
83,200

Adjusted Sample Ac.
1,800

Estimated Ac.
83,194

<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>	3,974	12,386	66,508	184	--	139

River Basin

070000 - Ohio River Drainage Basin

Estimated Ac.
83,055

POCAHONTAS COUNTY, WEST VIRGINIA

2, 1, 2, 1

Adjusted Census Ac.
326,482

Adjusted Sample Ac.
6,635

Estimated Ac.
326,502

<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>	33,309	71,744	217,750	689	1,476	1,526

River Basin - Ohio River Drainage Basin

070220 - Cheat River

070711 - Greenbrier River

070720 - Gauley River

070730 - Elk River

Estimated Ac.
19,684
263,661
11,812
29,819

Excluded Acreage:

National Forest 277,038

PRESTON COUNTY, WEST VIRGINIA
(Completely Measured)

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Measured Ac.</u>		
412,800	- -			412,800		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>S-S-E Data:</u>	72,783	77,007	236,421	* { 13,588	* { 10,952	2,049
<u>LCU Data:</u>	72,783	77,007	236,421	{ 13,588	{ 10,952	2,049
<u>River Basin</u> - Ohio River Drainage Basin					<u>Measured Ac.</u>	
070220 - Cheat River					410,751	

Notes: *Revised totals for land use "Other" and "Urban".

PUTNAM COUNTY, WEST VIRGINIA
2, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
223,360	4,553			223,353		
<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>	38,211	51,692	131,272	1,764	- -	392
<u>River Basin</u> - Ohio River Drainage Basin					<u>Estimated Ac.</u>	
070700 - Kanawha River					198,433	
070800 - Guyandot River					24,528	

RALEIGH COUNTY, WEST VIRGINIA
2, 1, 2, 1*

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
386,560	7,995			386,607		
<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>	21,934	36,543	281,212	11,320	35,002	610
<u>River Basin</u> - Ohio River Drainage Basin					<u>Estimated Ac.</u>	
070700 - Kanawha River					9,391	
070710 - New River					191,977	
070740 - Coal River					122,919	
070800 - Guyandot River					61,710	

Notes: *The urban acreage was expanded by a separate ratio from the rest of the county.

RANDOLPH COUNTY, WEST VIRGINIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
482,130	10,318			*482,254		
<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>	45,470	62,298	361,577	10,608	- -	2,290
<u>River Basin - Ohio River Drainage Basin</u>					<u>Estimated Ac.</u>	
070210 - Tygart River					297,453	
070220 - Cheat River					150,446	
070730 - Elk River					32,065	
<u>Excluded Acreage:</u>						
Federal land		170,410				
Urban		10,500				

Notes: *Overestimated because of a .01 error in the expansion ratio.

RITCHIE COUNTY, WEST VIRGINIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
289,280		6,000		289,252		
<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>	27,283	54,134	188,641	16,341	1,880	964
<u>River Basin - Ohio River Drainage Basin</u>					<u>Estimated Ac.</u>	
070500 - Little Kanawha					288,288	

ROANE COUNTY, WEST VIRGINIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
311,040		6,400		311,038		
<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>	36,357	101,480	164,664	7,489	- -	1,069
<u>River Basin - Ohio River Drainage Basin</u>					<u>Estimated Ac.</u>	
070000 - Ohio River Drainage Basin					19,440	
070500 - Little Kanawha					135,932	
070700 - Kanawha River					77,126	
070730 - Elk River					77,471	

SUMMERS COUNTY, WEST VIRGINIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
229,760		4,800		229,778		
<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>	30,639	31,931	157,874	3,018	4,595	1,723
<u>River Basin - Ohio River Drainage Basin</u>					<u>Estimated Ac.</u>	
070710 - New River					143,610	
070711 - Greenbrier River					65,296	
070720 - Gauley River					19,149	

TAYLOR COUNTY, WEST VIRGINIA
(Completely Measured)

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Measured Ac.</u>		
108,800	--			108,800		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>S-S-E Data:</u>	15,281	42,358	40,308	3,806	6,746	309
<u>LCU Data:</u>	15,273	41,722	40,296	3,580	7,620	309
<u>LCU Data (Revised):</u>	15,273	42,358	40,308	3,806	6,746	309
<u>River Basin</u> -- Ohio River Drainage Basin					<u>Measured Ac.</u>	
070210 - Tygart River					108,491	

TUCKER COUNTY, WEST VIRGINIA
2, 1, 2, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
176,478	3,767			176,491		
<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>	19,776	34,956	98,391	22,632	--	750
<u>River Basin</u> - Ohio River Drainage Basin					<u>Estimated Ac.</u>	
070220 - Cheat River					175,741	
<u>Excluded Acreage:</u>						
National Forest	92,962					

TYLER COUNTY, WEST VIRGINIA
2, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
163,840	3,300			163,851		
<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>	23,291	35,752	103,222	447	--	1,142
<u>River Basin</u>					<u>Estimated Ac.</u>	
070000 - Ohio River Drainage Basin					162,709	

UPSHUR COUNTY, WEST VIRGINIA
2, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
219,780	4,694			219,777		
<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>	39,010	85,641	91,211	3,511	--	421
<u>River Basin</u> - Ohio River Drainage Basin					<u>Estimated Ac.</u>	
070210 - Tygart River					154,320	
070211 - West Fork Tygart River					23,178	
070500 - Little Kanawha					41,858	
<u>Excluded Acreage:</u>						
Urban	5,500					

WAYNE COUNTY, WEST VIRGINIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
328,320		6,800		328,306		
<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>	32,159	55,142	225,371	9,223	5,407	1,014
<u>River Basin</u> - Ohio River Drainage Basin						<u>Estimated Ac.</u>
070000 - Ohio River Drainage Basin						230,731
070900 - Big Sandy River						43,452
070920 - Big Sandy River, Tug Fork						53,109

WEBSTER COUNTY, WEST VIRGINIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
287,943		5,892		287,947		
<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>	11,435	6,697	263,026	2,594	2,688	1,515
<u>River Basin</u> - Ohio River Drainage Basin						<u>Estimated Ac.</u>
070500 - Little Kanawha						24,191
070720 - Gauley River						63,093
070730 - Elk River						199,148

Excluded Acreage:

National Forest 64,697

Notes: 1959 tables for this county include National Forest. Later tables exclude National Forest.

WETZEL COUNTY, WEST VIRGINIA

2, 1, 2, 2*

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
231,680		4,763		231,701		
<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>	13,738	43,087	164,645	235	10,000	- -
<u>River Basin</u>						<u>Estimated Ac.</u>
070000 - Ohio River Drainage Basin						231,701

Notes: *The urban acreage was expanded by a separate ratio from the rest of the county.

WIRT COUNTY, WEST VIRGINIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
149,760		3,100		149,762		
<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>	17,778	33,381	89,901	5,607	1,836	1,256
<u>River Basin</u> - Ohio River Drainage Basin						<u>Estimated Ac.</u>
070500 - Little Kanawha						148,506

WOOD COUNTY, WEST VIRGINIA

2, 1, 2, 2

Adjusted Census Ac.

235,520

Adjusted Sample Ac.

4,800

Estimated Ac.

235,530

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
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<u>Estimated Ac.:</u>	37,480	46,850	130,865	14,761	4,613	932
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River Basin - Ohio River Drainage Basin

Estimated Ac.

070000 - Ohio River Drainage Basin

93,132

070500 - Little Kanawha

141,466

WYOMING COUNTY, WEST VIRGINIA

1, 1, 1, 2

Adjusted Census Ac.

322,560

Adjusted Sample Ac.

3,300

Estimated Ac.

322,582

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
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<u>Estimated Ac.:</u>	8,116	12,513	281,034	9,875	8,700	2,346
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River Basin - Ohio River Drainage Basin

Estimated Ac.

070800 - Guyandot River

320,236