

THIRD-ORDER LEVELING  
SEA LEVEL DATUM OF 1929

37-086-31  
SPRING LICK QUADRANGLE  
101 KENTUCKY  
N3715-W8630/15  
DIAGRAM NJ 16-8  
EVANSVILLE

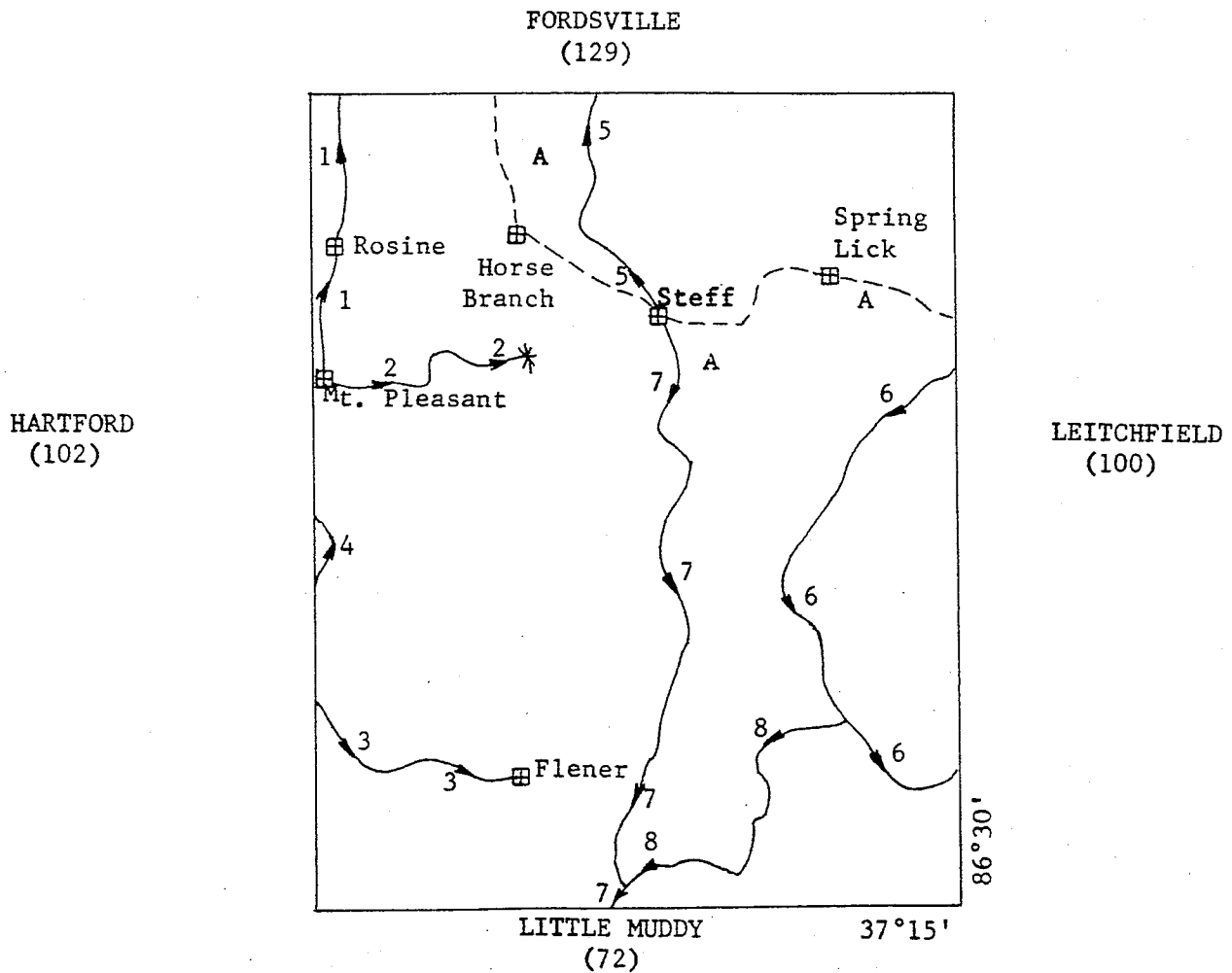
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Butler, Grayson and  
Ohio Counties

Final adjustment of 1972

Edition of 4/19/74

PR: CRV/mid



NGS (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle 370863

\* Tie to Isolated Control

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	<u>Feet</u>
<u>ISOLATED BENCH MARKS</u> By H. W. Peabody, 1907; Book A 7217; E. C. Bibbee, 1911; Book A 8898; F. J. McMaugh, 1922; Book B 1339; Crawford Dickey, 1923; Book B 1487	
Mt. Pleasant Church; standard tablet stamped "578 1907" (Reported destroyed, 1951)	576.124
Rosine, standard tablet stamped "565 1907" (Reported destroyed, 1954)	562.973
Logansport, at NW. corner of Lebanon Church; on iron post; standard cap stamped "PRIM TRAV STA NO 16 472 1907"	469.533
Vineyard, 1.7 mi NW. of; at rd. forks known as Minnie Grove; 100 ft S. of Whittinghills Store; in NE. corner of yard; at rd. forks; on iron post; standard cap stamped "629 KENTUCKY"	628.517
Minnie Grove, 1.1 mi NW. of; 0.2 mi S. of Love Post Office; 75 ft E. of three corners; 60 ft E. of corner of picket fence; on S. bank of Phelps Creek; 1.5 ft from fence; 1 ft from edge of bank; on iron post; standard cap stamped "PRIM TRAV STA NO 4 1909 KY McM 25 1922" (Destroyed, 1954)	465.847
Flint Springs, 102 ft E. of SE. corner of Etta Romans Store; 52 ft NW. of NW. corner of J.M. White's house; 40 ft SE. from T-rd. N. to Horse Branch; on inside of lot fence; 3 ft from corner; in concrete post; standard tablet stamped "PRIM TRAV STA 51 1922 Y KY D 1 1923" (Disturbed, 1973)	587.284
Banock Post Office, 103 ft NE. of NE. corner of concrete porch of C. W. Raymers Store; 33 ft S. from second class rd. forks; 23 ft NE. of oak tree; at corner of picket fence; on bank above rd.; in concrete post; standard tablet stamped "PRIM TRAV STA NO 52 1922 Y KY D 2 1923" (Disturbed, 1952)	451.905
Yeaman, 3.7 mi S. of; on Lower Hartford-Leitchfield Road; in SW. angle of T-rd. S.; in concrete post; standard tablet stamped "D 9 1923"	661.936
Spring Lick, 70 ft E. of church; 100 ft W. of R.R. sta.; 375 ft N. of center of track; 29 ft SE. of center of dirt rd.; 3 ft SE. of NW. corner of Neil Meyer coal shed; in concrete post; standard tablet stamped "D 10 1923" (Tied by NGS, 1935)	484.258
White Run, 280 ft S. of RR crossing, on W. side of rd.; in edge of field; 2 ft W. of fence; in concrete post; standard tablet stamped "D 11 1923 KY"	434.785

## ISOLATED BENCH MARKS (Cont'd.)

Feet

Arnold, in SE. angle of rd. forks; in front of store; in concrete post; standard tablet stamped "D 13 1923 KY"	491.660
<u>LINE 1.</u>	
By J. D. Nikolaus, 1951; Book AV 254	
Mt. Pleasant, 75 ft NW. of NW. corner of church; 31 ft S.; 41 ft E. and about 2 ft higher than center of crossroads; in concrete post; standard tablet stamped "9 JDN 1951 572"	571.390
Rosine, 120 ft S. of SW. corner of post office; 30 ft S. and 28 ft E. of center of crossroads; 12 ft NW. of corner fence post; about 1 ft lower than hwy.; in concrete post; standard tablet stamped "10 JDN 1951 565"	563.899
Rosine, about 2.6 mi N. of along gravel rd.; about 0.1 mi W. of Fairview School; 18 ft S.; 17 ft E.; and about 2.5 ft higher than center of crossroads; in concrete post; standard tablet stamped "11 JDN 1951 574"	573.998
Reference mark, 15 ft SW. of intersection of crossroads; on S. end of concrete pipe culvert; chiseled square	573.28
<u>LINE 2.</u>	
By J. D. Nikolaus, 1951; Book AV 254	
"9 JDN 1951 572" (Described in line 1)	571.390
Mt. Pleasant, 2.4 mi E. of; along gravel rd.; about 700 ft NE. of old Union School; 30 ft N. and 15 ft W. of junction of T-rd. forks; 5 ft W. of signpost; in SE. corner of field; in concrete post; standard tablet stamped "12 JDN 1951 637"	636.637
Renfrow, about 125 ft NW. of corner of post office; 35 ft NE. of SE. corner of Sugar Grove Church; 1 ft SW. of corner fence post; in top of concrete post; standard tablet stamped "13 JDN 1951 686 RESET 1953 EMT"	682.805
White Run, 3.0 mi S. of; in NE. angle of crossroads; in concrete post; standard tablet stamped "D 12 1923 KY"	629.565

LINE 3.Feet

By J. D. Nikolaus, 1951; Book AV 254

Cromwell, 3.6 mi SE. of; along State Highway 71, about 650 ft W. along State Highway 71 from Half Way House; in SE. corner of S. headwall of concrete culvert; standard tablet stamped "14 JDN 1951 458"	458.301
Gilstrap, 2.3 mi SW. of; along dirt rd.; 0.5 mi N. of State Highway 71; 55 ft E. of NE. corner of two-story frame house; 20 ft SE. of 16-in. walnut tree; 4 ft E. of fence corner; at NW. corner of garden; in concrete post; standard tablet stamped "TT 15 JDN 1951 516" (Destroyed 1952)	515.717
Reference mark; 105 ft NE. of tablet; at SW. corner of SW. foundation stone of barn; chiseled square	519.31
Gilstrap, about 150 ft S. of schoolhouse; 33 ft N.; 26 ft W. and about 1.5 ft higher than junction of T-rd. fork N.; 2 ft E. of telephone pole; in concrete post; standard tablet stamped "17 JDN 1951 570"	569.753
Gilstrap, 2.0 mi SE. of secondary rd.; 66 ft S. and about 1 ft lower than junction of secondary rd. and T-gravel rd. SE.; about 100 ft SW. of SW. corner of barn; 1.5 ft NE. of fenceline; in concrete post; standard tablet stamped "17 JDN 1951 422"	421.864
Banock, 5.6 mi SW. of; E. side of rd.; 400 ft S. of rd. forks; on bank; 10 ft from rd.; in concrete post; standard tablet stamped "D 14 1923 KY"	422.388

LINE 4.

By J. D. Nikolaus, 1951; Book AV 254

Select, 0.5 mi N. of along gravel rd.; 21 ft S. and 30 ft W. of junction of T-dirt rd. W.; 12 ft NE. of NE. corner fence post; 65 ft SE. of SE. corner of white frame house; about 2 ft higher than rd.; in concrete post; standard tablet stamped "8 JDN 1951 472"	471.545
Reference mark, 92 ft NE.; of tablet; at NW. corner of L-shaped concrete culvert headwall; chiseled square	466.11

LINE 5.Feet

By J. D. Nikolaus, 1951; Book AV 254

"D 78 1935" (NGS)

442.588

White Run, 1.4 mi N. of; about 0.5 mi W. of Hopewell Church and School, 35 ft S. and 6 ft W. of crossroad; at NE. corner of abandoned field; in concrete post; standard tablet stamped "TT 18 HF 1951 609"

608.763

LINE 6.

By J. D. Nikolaus, 1951; Book AV 254

Caneyville, 2.4 mi SW. of; along State Highway 105; 0.6 mi SW. of bridge over Buck Creek; 3 ft N. and 27 ft W. of junction of T-driveway NW.; 10 ft SW. of corner fencepost; 2 ft S. of fenceline; in concrete post; standard tablet stamped "18 JDN 1951 594"

593.237

Tilford, 470 ft S. of post office in Billy J. Ferrin's Store; on W. side of rd.; on edge of stream; 30 ft W. from center of rd.; 12 ft N. from small double white oak tree; 9 ft E. from 12-in white oak tree; in rock ledge; standard tablet stamped "PRIM TRAV STA NO 54 1922 Y KY D 4 1923"

568.694

Welchs Creek, 0.4 mi S. of post office along State Highway 105; 190 ft NW. of NW. corner of Legrand Chapel School; 44 ft S. and 16 ft E. of junction of T-rd. E.; 10 ft E. of twin-trunked gum tree; in concrete post; standard tablet stamped "19 JDN 1951 593"

592.418

Grancer, 0.8 mi N. of; along gravel rd.; 190 ft E. of bridge over Woosely Creek; 80 ft NE. of NE. corner of white frame house; 50 ft W. of SW. corner of small shed; 6 ft N. of N. bank of small creek; in concrete post; standard tablet stamped "20 JDN 1951 440"

439.811

U.E., Grancer, 18 ft SE. and about 2 ft higher than center of rd. at T-rd. W.; on outcropping rock ledge; chiseled square

437.93

Grancer, 2.0 mi SE. of; about 75 ft SE. of Grancer Creek crossing; 12 ft N.; 25 ft E. and about level with center of rd. at field rd. E.; 6 ft NW. of N. gatepost; in concrete post; standard tablet stamped "21 JDN 1951 499"

498.700

LINE 7.

By J. D. Nikolaus, 1951; Book AV 254

"E 78 1935" (NGS) (Destroyed, 1954)	442.699
Neafus, 65 ft E. of SE. corner of post office, 45 ft E. and level with center of gravel rd. at dirt rd. E.; 10 ft N. of NW. corner of small garage; 3 ft W. of wooden fence;;in concrete post; standard tablet stamped "22 JDN 1951 639"	639.219
Neafus, 2.7 mi S. of; along gravel rd.; 3 ft S.; 29 ft E. and about 2 ft lower than center of rd. at woods rd. E.; 50 ft N. of drain; 4 ft SW. of fence corner; in concrete post; standard tablet stamped "23 JDN 1951 519"	518.365
Banock, 3.5 mi E. of; 4.5 mi W. of Tilford; 0.33 mi N. of Barnett's Lick Church; at T-rd. W.; 30 ft SW. from junction and inside of fence; 3 ft from fence corner; in concrete post; standard tablet stamped "PRIM TRAV STA NO 53 1922 Y KY D 3 1923"	497.250
Casey, 1.3 mi S. of post office along gravel rd.; 27 ft N.; 5 ft W.; and about 2 ft higher than junction of State Highway 105 and Y-gravel rd. N.; in concrete post; standard tablet stamped "24 JDN 1951 614"	613.525
Monford, 1.7 mi NE. of; along dirt rd.; 1.9 mi S. of junction with State Highway 105; 3 ft N. and 15 ft E. of junction with Y-trail SE.; 1.5 ft E. of fence line; 5 ft SW. of 9-in. oak tree; in concrete post; standard tablet stamped "25 JDN 1951 604"	603.959
Monford, 5.0 mi NE. of Morgantown, 375 ft S. of Alonzo James Store; in center of triangle; at forks; on iron post; standard cap stamped "PRIM TRAV STA NO 5 1909 KY"	547.989

LINE 8.

By J. D. Nikolaus, 1951; Book AV 254

U.E., Grancer; chiseled square (Described in line 6)	437.93
Brooklyn, about 0.3 mi NE. of post office; in center of traffic triangle at T-rd. NW.; 14 ft W. of 45-in. oak tree; in concrete post; standard tablet stamped "27 JDN 1951 426" (Destroyed, 1954)	426.110
Monford, 2.4 mi E. of; along State Highway 70; in SE. corner of SE. wingwall of concrete bridge over Welch Creek; standard tablet stamped "28 JDN 1951 424"	423.170
Reference mark, on NW. end of N. wheelguard; chiseled square	424.05

HORIZONTAL CONTROL  
NORTH AMERICAN DATUM OF 1927

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

37-086-31  
SPRING LICK QUADRANGLE  
101 KENTUCKY  
N3715-W8630/15  
DIAGRAM NJ 16-8  
EVANSVILLE

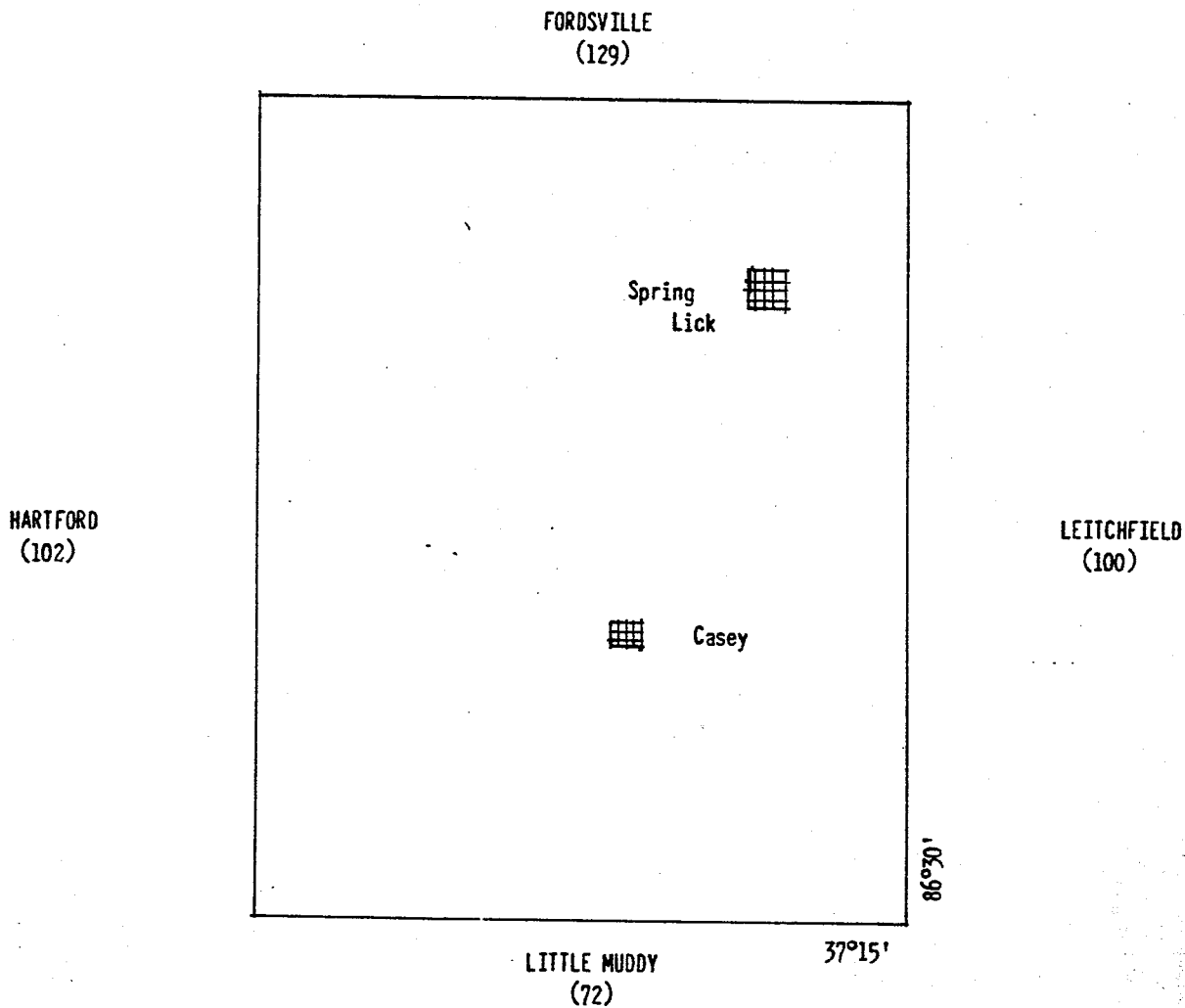
Butler, Grayson, and Ohio Counties

Edition of 9/26/77

PR: CRV/rmm

Plane coordinates are based on Lambert  
projection, Kentucky, South Zone

Only the permanent marks are  
listed for control classified  
obsolete and are not shown on  
sketch





DISCLAIMER

We no longer attest to the validity of the positions listed for horizontal control established by transit traverse procedures. This control is now considered OBSOLETE and is included in this list for the purpose of identification only.

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TT 17 HF 1951	5
TT 18 HF 1951 609	5
8 JDN 1951 472 TT	4
10 JDN 1951 565 TT	4
11 JDN 1951 574 TT	4
14 JDN 1951 458 TT	4
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25 JDN 1951 604 TT	4
ET 6 JRH 1951	6
TT 7 JRH 1951	6
TT 8 JRH 1951	6
NOT STAMPED	5
<u>NGS</u>	
E 78 1935	5

101 KENTUCKY  
 SPRING LICK QUADRANGLE

37-086-31

3

STATION	DESCRIPTION PLANE COORDINATES, FEET	LATITUDE ° ' "	LONGITUDE ° ' "
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The following positions are considered OBSOLETE. To be used only to locate permanent marks in the field.

By C. B. Kendall, 1909; Books A1375-6; and B. H. Yoakum, 1919-22; Books C4748, C5880-1

Minnie Grove, 1.1 mi NW. of; 0.2 mi S. of Love Post Office; 75 ft E. of three corners; 60 ft E. of picket fence; on S. bank of Phelps Creek; 1.5 ft from fence; 1 ft from edge of bank; on iron post; standard cap stamped "PRIM TRAV STA NO 4 1909 KY MCM 25 1922" (Reported destroyed, 1954)

X = 1,773,462	Y = 340,192	37 15 54.60	86 31 42.50
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Monford; 5.0 mi N. of Morgantown; 375 ft S. of store of Alonzo James; in center of triangle formed by junction of rds.; on iron post; standard cap stamped "PRIM TRAV STA NO 5 1909 KY"

X = 1,741,839	Y = 341,934	37 16 09.06	86 38 13.89
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Love, 1.0 mi SE. of; 70 ft SW. of store of Dock Colburn; 40 ft W. of junction of I-rd. S.; 2 ft from W. end of field gate; on S. side of E.-W. rd.; inside yard fence; on iron post; standard cap stamped "PRIM TRAV STA NO 10 1919 KY 629"

X = 1,776,472	Y = 335,896	37 15 12.40	86 31 04.80
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Select; 730 ft N. of post office; at junction of rd. NE.; 40 ft E. of N.-S. rd.; 36 ft NW. of NW. corner of residence of B. F. Allen; 7 ft E. of fence corner; in concrete post; standard tablet stamped "PRIM TRAV STA NO 50 Y 1922 KY" (Not found, 1954)

X = 1,711,874	Y = 376,333	37 21 46.20	86 44 29.10
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Banock Post Office; 103 ft NE. of NE. corner of concrete porch to store of C. W. Rayner; 33 ft S. of junction of second-class rd.; 23 ft NE. of oak tree; at picket fence corner; on bank above rd.; in concrete post; standard tablet stamped "PRIM TRAV STA NO 52 Y 1922 KY D 2 1923" (Post reported loose and exposed by erosion, 1952)

X = 1,737,035	Y = 372,146	37 21 07.30	86 39 16.90
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Banock, 3.5 mi E. of; 4.5 mi SW. of Tilford; 0.3 mi N. of Barnetts Lick Church; 30 ft SW. of junction of old I-rd. W.; inside of fence; 3 ft from corner; in concrete post; standard tablet stamped "PRIM TRAV STA NO 53 Y 1922 KY D 3 1923"

X = 1,751,280	Y = 367,822	37 20 25.88	86 36 19.99
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Tilford, 470 ft S. of post office at store of Billy J. Farris; at edge of stream; 30 ft W. of centerline of rd.; 12 ft N. of small double white oak tree; 9 ft E. of 12-in. white oak tree; in rock ledge; standard tablet stamped "PRIM TRAV STA NO 54 Y 1922 KY D 4 1923"

X = 1,768,690	Y = 380,023	37 22 28.00	86 32 45.70
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STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° ' "	° ' "

OBsolete MARKS (Cont'd.)

By H. P. Finch, 1951; Book AH 222

Rosine, 120 ft S. of SW. corner of post office; 30 ft S. and 24 ft E. of crossroads; 12 ft NW. of corner fencepost; in concrete post; standard tablet stamped "10 JDN 1951 565 TT"

X = 1,712,223	Y = 408,219	37 27 01.51	86 44 28.86
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Rosine, 2.6 mi N. of, along graveled rd.; 0.1 mi W. of Fairview School; 18 ft S. and 17 ft E. of, and 2.5 ft higher than crossroads; in concrete post; standard tablet stamped "11 JDN 1951 574 TT"

X = 1,713,594	Y = 421,617	37 29 14.11	86 44 13.59
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By J. R. Harris, 1951; Book AH 222

Select, 0.5 mi NW. of, along graveled rd.; 65 ft SE. of SE. corner of white frame house; 21 ft S. and 30 ft W. of, and 2 ft higher than centerline of rd. at junction of dirt T-rd. W.; 12 ft NE. of NE. corner fencepost; in concrete post; standard tablet stamped "8 JDN 1951 472 TT"

X = 1,711,800	Y = 376,314	37 21 46.02	86 44 29.96
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Cromwell, 3.6 mi SE. of, along State Highway 71; 650 ft W. of Half Way House; in SE. corner of S. concrete headwall of culvert; standard tablet stamped "14 JDN 1951 458 TT"

X = 1,711,220	Y = 354,601	37 18 11.28	86 44 34.32
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Casey, 1.3 mi S. of post office, along graveled rd.; 27 ft N. and 5 ft W. of, and 2 ft higher than centerline of State Highway 105 at junction of graveled rd. N.; in concrete post; standard tablet stamped "24 JDN 1951 614 TT"

X = 1,749,626	Y = 358,803	37 18 56.56	86 36 39.45
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Monford, 1.7 mi NE. of, along dirt rd.; 1.9 mi S. of junction with State Highway 105; 3 ft N. and 15 ft E. of junction of trail SE.; 5 ft SW. of 9-in. oak tree; 1.5 ft E. of fence line; in concrete post; standard tablet stamped "25 JDN 1951 604 TT"

X = 1,746,753	Y = 348,327	37 17 12.72	86 37 13.83
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Monford, 0.7 mi N. of; 210 ft N. of junction of State Highways 70 and 545; 31 ft NE. of centerline of Highway 545; 6 ft NE. of utility pole; 3 ft SW. of fence; in concrete post; standard tablet stamped "11 7 JRH 1951"

X = 1,743,531	Y = 344,320	37 16 32.80	86 37 53.23
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STATION	DESCRIPTION	LATITUDE	LONGITUDE
PLANE COORDINATES, FEET		O I N	O I N

OBSOLETE MARKS (Cont'd.)

By C. W. Haas, 1952; Book AH 222

Spring Lick, 3.9 mi SW. of station, along Illinois Central Railroad; 8 ft S. of, and 1 ft lower than S. rail of track; in concrete post; NGS standard disk stamped "E 78 1935"

X = 1,751,121      Y = 399,590      37 25 39.96      86 36 25.54

Neafus; 65 ft E. of SE. corner of post office; 45 ft E. of, and level with centerline of graveled rd. at junction of dirt rd. E.; 10 ft N. of NW. corner of small garage; 3 ft W. of wooden fence; in concrete post; standard tablet stamped "22 JDN 1951 639 TT"

X = 1,750,705      Y = 387,790      37 23 43.25      86 36 29.36

Neafus, 0.2 mi W. of post office; in center of rd. junction; 3 ft high concrete monument with Grayson County stenciled on E. side, Butler County on S. side, and Ohio County on W. side

X = 1,749,614      Y = 387,720      37 23 42.46      86 36 42.88

Neafus, 2.7 mi S. of, along graveled rd.; 3 ft S. and 29 ft E. of, and 2 ft lower than centerline of rd. at junction of woods rd. E.; 50 ft N. of drain; 4 ft SW. of fence corner; in concrete post; standard tablet stamped "23 JDN 1951 519 TT"

X = 1,750,098      Y = 378,335      37 22 09.71      86 36 35.82

White Run, 0.9 mi E. of post office, along U. S. Highway 62; 193 ft W. of Ohio-Grayson County line; 35 ft S. of centerline of hwy.; in concrete post; standard tablet stamped "TI 17 HF 1951"

X = 1,743,863      Y = 406,597      37 26 48.57      86 37 56.32

White Run, 1.4 mi N. of post office; 0.5 mi E. of Hopewell Church and School; 35 ft S. and 6 ft W. of crossroad; at NE. corner of abandoned field; in concrete post; standard tablet stamped "TI 18 HF 1951 609"

X = 1,743,084      Y = 415,006      37 28 11.64      86 38 06.96

MARKS TIED BY NGS

By C. B. Kendall, 1909; Books A1375-6; and B. H. Yoakum, 1919-22; Books C4748, C5880-1

Flint Springs; 102 ft E. of NE. corner of store of Etta Romas; 52 ft NW. of NW. corner of residence of J. M. White; 40 ft SE. of junction of T-rd. N. to horse Branch; in side of lot fence; 3 ft from corner post; in concrete post; standard tablet stamped "PRIM TRAV STA NO 51 Y 1922 KY D 1 1923" (Reported disturbed, 1973)

X = 1,718,260.67      Y = 369,662.86      37 20 40.924      86 43 09.091

101 KENTUCKY  
SPRING LICK QUADRANGLE

37-086-31  
6

STATION            DESCRIPTION  
                  PLANE COORDINATES, FEET

LATITUDE  
° ' "

LONGITUDE  
° ' "

MARKS TIED BY NGS (Cont'd.)

By J. R. Harris, 1951; Book AH 222

Aberdeen, 7.2 mi NE. of, along State Highway 105; 90 ft S. of S. corner of old store (now residence); 48 ft S. and 15 ft W. of centerline of Highway 105 at junction of graveled rd. SE.; in concrete post; standard tablet stamped "TI 6 JRH 1951"

X = 1,750,689.56    Y = 359,683.29

37 19 05.354

86 36 26.390

Aberdeen, 0.2 mi N. of post office; on high hill on property of W. A. McKenney; 42 ft NE. of pond; 3 ft N. and 7 ft W. of 10-in hickory tree; in concrete post; standard tablet stamped "TI 8 JRH 1951"

X = 1,728,462.26    Y = 336,597.15

37 15 15.013

86 40 58.718