



Base prepared by the U. S. Army Topographic Command (KCTV), Washington, D. C. Compiled in 1957 by photogrammetric methods and from United States quadrangles, 1:25,000, 1:62,500, 1:90,000. Planimetry revised from aerial photographs taken 1956. Control by USGS, NOS charts & Pennsylvania Department of Highways. Photography field annotated 1957. Limited revision by the U. S. Geological Survey 1964.

100,000 FOOT PLANE COORDINATE GRID TICK SYMBOLS

INDEX TO COUNTY BOUNDARIES  
 (See county designations list for county designations)

PLANE COORDINATE ZONES  
 PENNSYLVANIA NORTH

**HORIZONTAL CONTROL**

National Ocean Survey	Geological Survey

**VERTICAL CONTROL**

National Ocean Survey	Geological Survey

**STATE SURVEY CONTROL**

Horizontal or Vertical	ROADS	RAILROADS	BOUNDARIES	Landmarks

Scale 1:250,000  
 0 5 10 15 20 25 30 Statute Miles  
 0 5 10 15 20 25 30 Kilometers

**TRANSVERSE MERCATOR PROJECTION LOCATION DIAGRAM FOR NK 17-9**

LEGEND ROAD DATA 1957

**NATIONAL OCEAN SURVEY THIRTY MINUTE QUADRANGLE DESIGNATION**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
41 079 4	41 079 1	41 079 8	41 078 4	41 078 1	41 078 8	41 078 5	41 078 2	41 078 9	41 079 2	41 079 9	41 078 3	41 078 0	41 078 7	41 078 4	41 078 1
41 079 3	41 079 0	41 079 7	41 078 3	41 078 0	41 078 7	41 078 4	41 078 1	41 078 8	41 079 1	41 079 8	41 078 2	41 078 9	41 078 6	41 078 3	41 078 0

**INDEX TO COUNTY BOUNDARIES**

1 Erie	2 Crawford	3 Venango	4 Butler	5 Clarion	6 Forest	7 Warren	8 Chautauque	9 McKean	10 Cattaraugus	11 Jefferson	12 Chautauque	13 Cameron	14 Potter	15 Allegany	16 DeWitt	17 Armstrong
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**INDEX TO COUNTY BOUNDARIES**

1 Allegheny	2 Westmoreland	3 Adams	4 York	5 Lancaster	6 Berks	7 Schuylkill	8 Lehigh	9 Luzerne	10 Wayne	11 Bradford	12 Tioga	13 Sullivan	14 Susquehanna	15 Franklin	16 Seneca	17 Hamilton	18 Warren	19 Allegheny
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**ORDER CONTROL DATA SHOWN IN BLACK, BY 30 MINUTE QUADRANGLE UNITS FROM NATIONAL GEODETIC SURVEY, NOAA, ROCKVILLE, MARYLAND 20852.**

**ORDER CONTROL DATA SHOWN IN RED, BY 15 MINUTE QUADRANGLE UNITS FROM DIRECTOR, GEOLOGICAL SURVEY, WASHINGTON, D. C. 20244.**

USCOMM NOAA DC APRIL 1974 A 5692

WARREN, PENNSYLVANIA, NEW YORK (NK 17-9)  
 APRIL 1972

U. S. DEPARTMENT OF COMMERCE  
 ENVIRONMENTAL SCIENCE SERVICES ADMIN.  
 COAST AND GEODETIC SURVEY  
 ROCKVILLE, MARYLAND 20852  
 FORM - 6471 (2/68)  
 DATE FEB 1974

# INDEX TO NUMBERED HORIZONTAL CONTROL STATIONS

by the  
 Coast and Geodetic Survey

PAGE 1  
 QUADS 410781-2-3-4 & 410791-2-3-4  
 PA  
 LATITUDE 41°00' TO 42°00'  
 LONGITUDE 78°00' TO 80°00'  
 DIAGRAM NK 17-9 WARREN

KEY NO.	STATION NAME	QUAD NO.	STATION NO.	KEY NO.	STATION NAME	QUAD NO.	STATION NO.
1	OLD TOWN FOREST LOOKOUT TOWER	410782	1036	25	MARSHBURG MAST	410784	1052
1	CHICAGO NEW YDRK AIRWAY BN 49A	410782	1037	26	OXBOW	410794	1009
2	BERK AZIMUTH MARK	410783	1032	26	PRIMARY TRAVERSE STATION 37M USGS	410794	1010
3	BURKETT	410783	1033	27	BOUNDARY MONUMENT 216 PA-NY	410794	1017
4	BURKETT AZ MK	410783	1034	28	BOUNDARY MONUMENT 221 PA-NY	410794	1005
5	LUTHERSBURG RADIO STA WCED FM MAST	410783	1064	29	CORRY ST EDWARDS CATHOLIC CHURCH SPIRE	410794	1024
6	TIE	410784	1024	29	CORRY HIGH SCHOOL BELFRY	410794	1023
6	BOUNDARY MONUMENT NY-PA NEAR TIE	410784	1025	30	UNION CITY EASTMAN MANUFACTURING CO STACK	410794	1014
7	CHICAGO-NEW YORK AIRWAY BEACON NO 49B	410782	1027	31	GROVE MT USGS AZ MK	410782	1008
8	FIELD	410784	1060				
8	SHEFFIELD USGS	410784	1061				
8	SHEFFIELD FIRE TOWER	410784	1062				
9	DADE	410784	1019				
9	DADE RM 3	410784	1020				
9	MCDADE USGS	410784	1021				
10	MT JEWETT	410784	1014				
11	KANE AFFILIATED INDUSTRIES INC NE STACK	410784	1039				
12	MT JEWETT ST POL RAD MAST KGB 202	410784	1016				
12	MT JEWETT BELL TEL MICROWAVE MAST	410784	1015				
13	ISLAND	410783	1017				
13	RIDGEWAY TV CO MAST	410783	1037				
14	ST MARYS ST BENEDICTS SPIRE	410783	1013				
15	COUDERSPORT	410781	1001				
15	COUDERSPORT RAD STA WFRM MAST	410781	1002				
16	BROOKVILLE	410792	1024				
16	AIRWAY BEACON 45 1 MILE S OF BROOKVILLE	410792	1025				
17	SHUTE	410792	1039				
18	SIMPSON	410792	1044				
19	VILLE	410792	1020				
19	BENCH MARK Y 89	410792	1022				
19	BENCH MARK Z 89	410792	1023				
19	RBN BROOKVILLE RADIO BKL	410792	1021				
20	BROOKVILLE CATHOLIC CHURCH SPIRE	410792	1016				
21	REYNOLDS USGS	410793	1046				
22	CLARION CO CTHSE SPIRE	410792	1012				
23	FRANKLIN	410793	1011				
23	FRANKLIN 2	410793	1012				
23	POINT	410793	1010				
24	SHOWERS	410792	1048				
24	CLARION AIRWAY BEACON	410792	1049				