National Mapping Program
Technical Instructions

Part 4
Boundaries

Standards for 1:24,000-Scale
Digital Line Graphs and
Quadrangle Maps

U.S. Department of the Interior
U.S. Geological Survey
National Mapping Division

CONTENTS

LIST OF PAGES

A complete and current copy of Part 4 of <u>Standards for 1:24,000-Scale Digital Line Graphs and Quadrangle Maps</u> consists of the pages (and most recent creation or revision dates) listed below.

BOUNDARY LINE - The limiting line of jurisdictional authority for various levels of government.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Boundary Line Status	The acceptability of a boundary line
Approved	The description of the line has been approved and accepted by the delegated authority for such action
Disputed	The description of the line has not been approved or accepted by the delegated authority because of conflicting or unclear legal definitions
Historical	Feature is historically significant
Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks
Positional Accuracy	The accuracy within which a feature can be confidently positioned
Definite	Conditions permit the feature to be confidently positioned. Horizontal data are confidently positioned within 0.02", at map scale, of the true ground position. Vertical data are confidently positioned within one-half contour interval of the true ground position
Indefinite	Conditions prevent the feature from being confidently positioned. Horizontal data cannot be confidently positioned within 0.02", at map scale, of the true ground position. Vertical data cannot be confidently positioned within one-half contour interval of the true ground position

Unspecified   The value is not known and is not required

DELINEATION

The position of BOUNDARY LINE is as defined by law or proclamation.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional		> 0	
2-dimensional			

Special Conditions:

DATA EXTRACTION

Capture Conditions

If BOUNDARY LINE is associated with CITY, COUNTY, MINOR CIVIL DIVISION, NATION, RESERVATION, or STATE/TERRITORY,
Or
If BOUNDARY LINE is the Von Schmidt boundary line of California/Nevada,
Then capture.

Attribute Information

If Boundary Line Status = Disputed, and BOUNDARY LINE is not monumented and does not have a position that can be accepted as a neutral one,
Then Positional Accuracy = Unspecified.

If Boundary Line Status = Disputed, and BOUNDARY LINE is not monumented and has a position that can be accepted as a neutral one,
Then Positional Accuracy = Indefinite.

If Boundary Line Status = Disputed, and BOUNDARY LINE is monumented,

Then Positional Accuracy = Definite.

Boundary Line Status = Historical
Only if Name = Von Schmidt Line.

If Name = Von Schmidt Line,
Then Positional Accuracy = Indefinite.

If BOUNDARY LINE is associated with RESERVATION,
Then Boundary Line Status = Approved and Positional Accuracy = Unspecified.

Source Interpretation Guidelines

All

Land portions of disputed boundary lines that are not monumented, and for which a neutral position cannot be determined, are captured as BOUNDARY LINE. Capture BOUNDARY LINE as a straight line connecting the ends of the non-disputed or determined portions of the boundary line. If only one end is within the domain, then capture BOUNDARY LINE as a straight line from the non-disputed or determined portion of the boundary line to the neatline. If none of the non-disputed or determined portions of the boundary line are within the domain, then capture BOUNDARY LINE as a straight line or series of straight lines in the general area of the boundary. No attempt should be made to follow natural features.

Seaward limits of COUNTY, NATION, and STATE/TERRITORY are captured if usable descriptions are available to position the line. If the line cannot be placed, then collect a chain from the determined portion of the boundary line to the projection line.

Do not capture the limits of former Lighthouse Reservations, Indian Reservations, or Military Reservations as BOUNDARY LINE. See SURVEY LINE (PLSS theme).

Current jurisdictional boundary lines may have associated names. For example, the state boundary line between Pennsylvania and Maryland is captured with the Name = Mason-Dixon Line.

Graphic

If the land portion of a state or county boundary is symbolized with an indefinite boundary line symbol, and a note in the margin indicates the line is in dispute,
Then capture BOUNDARY LINE in the position shown on graphic, with Boundary Line Status = Disputed and Positional Accuracy = Indefinite.

If the land portion of a state or county boundary is symbolized with an indefinite boundary line symbol, and there is no indication that the line is in dispute,
Then capture BOUNDARY LINE in the position shown on graphic, with Boundary Line Status = Approved and Positional Accuracy = Indefinite.

If the land portion of a state or county boundary has been dropped, and it is indicated that the dropped portion is in dispute,
Then capture BOUNDARY LINE as a straight line connecting the ends of the non-disputed or determined portions of the boundary line, with Boundary Line Status = Disputed and Positional Accuracy = Unspecified.

If the land portion of a state or county boundary has been dropped, and it is not indicated that the dropped portion is in dispute,
Then capture a straight chain connecting the ends of the non-disputed or determined portions of the boundary line (Do not capture dropped portion as BOUNDARY LINE).

If a boundary line is shown coincident with the shoreline, turned along the shoreline and dropped, or just dropped and not shown at all along the shoreline (as when the boundary line follows the shoreline across the entire quadrangle),
Then collect BOUNDARY LINE in its entirety along the shoreline.

Sections of the international boundary between the U.S. and Mexico that are shown with the civil township boundary and labeled "JURISDICTIONAL BOUNDARY" or "INTERNATIONAL JURISDICTIONAL LINE" are captured as BOUNDARY LINE, with Boundary Line Status = Approved and Positional Accuracy = Definite.

The seaward portions of the international boundary between the U.S. and Canada are in dispute. They have sometimes been dropped and sometimes shown with labels, such as "Approximate" or "Proposed". Capture portrayed lines as BOUNDARY LINE, with Boundary Line Status = Disputed and Positional Accuracy = Indefinite. Do not capture dropped lines as BOUNDARY LINE; collect a chain from the determined portion of the boundary line to the projection line.

Revision - General

Revision - Standard

Revision - Limited

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    <u>Inclusion Conditions</u>

        All required

    <u>Generalization</u>

PRODUCT GENERATION at 1:24,000 scale

    <u>Symbolization</u>

                                  Symbol#: BOUNDARY_LINE_L001

                                  Dimension: 1

NAM

Attribute	Value	Symbol Specs	Type Specs
Boundary Line Status	Approved	<u>Dashed Line</u> Color: Black	**Name:** Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.016" Dash Spacing: 0.033" Long Dash Length: 0.25"	Style: SL CAPS Size: 6 Spacing: 0
Positional Accuracy	Definite	Short Dash Length: 0.07"	

NOTE: BOUNDARY LINE associated with NATION

                                  Symbol#: BOUNDARY_LINE_L002

                                  Dimension: 1

NAM
INDEFINITE BOUNDARY

Attribute	Value	Symbol Specs	Type Specs
Boundary Line Status	Approved	<u>Dashed Line</u> Color: Black	**Label and Name:** Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.008" Dash Spacing: 0.033" Long Dash Length: 0.25"	Style: SL CAPS Size: 6 Spacing: 0
Positional Accuracy	Indefinite	Short Dash Length: 0.07"	

NOTE: BOUNDARY LINE associated with NATION

Symbol#: BOUNDARY_LINE_L003
Dimension: 1

NAM
DISPUTED BOUNDAR Y

Attribute	Value	Symbol Specs	Type Specs
Boundary Line Status	Disputed	Dashed Line Color: Black	**Label and Name:** Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.016" Dash Spacing: 0.033" Long Dash Length: 0.25"	Style: SL CAPS Size: 6 Spacing: 0
Positional Accuracy	Definite	Short Dash Length: 0.07"	

NOTE: BOUNDARY LINE associated with NATION

Symbol#: BOUNDARY_LINE_L004
Dimension: 1

NAM
DISPUTED BOUNDAR Y

Attribute	Value	Symbol Specs	Type Specs
Boundary Line Status	Disputed	Dashed Line Color: Black	**Label and Name:** Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.008" Dash Spacing: 0.033" Long Dash Length: 0.25"	Style: SL CAPS Size: 6 Spacing: 0
Positional Accuracy	Indefinite	Short Dash Length: 0.07"	

NOTE: BOUNDARY LINE associated with NATION

Symbol#: BOUNDARY_LINE_L005
Dimension: 1

NAM

Attribute	Value	Symbol Specs	Type Specs
Boundary Line Status	Approved	Dashed Line	**Name:**
		Color: Black	Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.012" Dash Spacing: 0.033" Long Dash Length: 0.25"	Style: SL CAPS Size: 6 Spacing: 0
Positional Accuracy	Definite	Short Dash Length: 0.07"	

NOTE: BOUNDARY LINE associated with STATE/TERRITORY

Symbol#: BOUNDARY_LINE_L006
Dimension: 1

NAM

INDEFINITE BOUNDARY

Attribute	Value	Symbol Specs	Type Specs
Boundary Line Status	Approved	Dashed Line	**Label and Name:**
		Color: Black	Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.006" Dash Spacing: 0.033" Long Dash Length: 0.25"	Style: SL CAPS Size: 6 Spacing: 0
Positional Accuracy	Indefinite	Short Dash Length: 0.07"	

NOTE: BOUNDARY LINE associated with STATE/TERRITORY

Symbol#:   BOUNDARY_LINE_L007
Dimension: 1

NAM
DISPUTED BOUNDAR Y

Attribute	Value	Symbol Specs	Type Specs
Boundary Line Status	Disputed	Dashed Line Color: Black	**Label and Name:** Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.012" Dash Spacing: 0.033" Long Dash Length: 0.25"	Style: SL CAPS Size: 6 Spacing: 0
Positional Accuracy	Definite	Short Dash Length: 0.07"	

NOTE: BOUNDARY LINE associated with STATE/TERRITORY

Symbol#:   BOUNDARY_LINE_L008
Dimension: 1

NAM
DISPUTED BOUNDAR Y

Attribute	Value	Symbol Specs	Type Specs
Boundary Line Status	Disputed	Dashed Line Color: Black	**Label and Name:** Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.006" Dash Spacing: 0.033" Long Dash Length: 0.25"	Style: SL CAPS Size: 6 Spacing: 0
Positional Accuracy	Indefinite	Short Dash Length: 0.07"	

NOTE: BOUNDARY LINE associated with STATE/TERRITORY

Symbol#:   BOUNDARY_LINE_L009
Dimension: 1

NAM

Attribute	Value	Symbol Specs	Type Specs
Boundary Line Status	Approved	Dashed Line	**Name:**
		Color: Black	Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.01"	Style: SL CAPS
		Dash Spacing: 0.033"	Size: 6
		Long Dash Length: 0.25"	Spacing: 0
Positional Accuracy	Definite	Short Dash Length: 0.07"	

NOTE: BOUNDARY LINE associated with COUNTY

Symbol#:   BOUNDARY_LINE_L010
Dimension: 1

NAM

INDEFINITE BOUNDARY

Attribute	Value	Symbol Specs	Type Specs
Boundary Line Status	Approved	Dashed Line	**Label and Name:**
		Color: Black	Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.005"	Style: SL CAPS
		Dash Spacing: 0.033"	Size: 6
		Long Dash Length: 0.25"	Spacing: 0
Positional Accuracy	Indefinite	Short Dash Length: 0.07"	

NOTE: BOUNDARY LINE associated with COUNTY
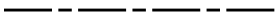

Symbol#: BOUNDARY_LINE_L011
Dimension: 1

NAM
DISPUTED BOUNDAR Y

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Attribute	**Value**	**Symbol Specs**	**Type Specs**
Boundary Line Status	Disputed	Dashed Line Color: Black	**Label and Name:** Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.01" Dash Spacing: 0.033" Long Dash Length: 0.25"	Style: SL CAPS Size: 6 Spacing: 0
Positional Accuracy	Definite	Short Dash Length: 0.07"	

NOTE: BOUNDARY LINE associated with COUNTY

Symbol#: BOUNDARY_LINE_L012
Dimension: 1

NAM
DISPUTED BOUNDAR Y

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Attribute	**Value**	**Symbol Specs**	**Type Specs**
Boundary Line Status	Disputed	Dashed Line Color: Black	**Label and Name:** Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.005" Dash Spacing: 0.033" Long Dash Length: 0.25"	Style: SL CAPS Size: 6 Spacing: 0
Positional Accuracy	Indefinite	Short Dash Length: 0.07"	

NOTE: BOUNDARY LINE associated with COUNTY

Symbol#: BOUNDARY_LINE_L013
Dimension: 1

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Attribute	Value	Symbol Specs	Type Specs
Boundary Line Status	Approved	Dashed Line Color: Black	**Name:** Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.007" Dash Length: 0.17" Dash Spacing: 0.033"	Style: SL CAPS Size: 6 Spacing: 0
Positional Accuracy	Definite		

NOTE: BOUNDARY LINE associated with MINOR CIVIL DIVISION

Symbol#: BOUNDARY_LINE_L014
Dimension: 1

NAM
INDEFINITE BOUNDARY
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Attribute	Value	Symbol Specs	Type Specs
Boundary Line Status	Approved	Dashed Line Color: Black	**Label and Name:** Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.007" Dash Length: 0.17" Dash Spacing: 0.033"	Style: SL CAPS Size: 6 Spacing: 0
Positional Accuracy	Indefinite		

NOTE: BOUNDARY LINE associated with MINOR CIVIL DIVISION

Symbol#: BOUNDARY_LINE_L015
Dimension: 1

NAM
DISPUTED BOUNDAR Y

Attribute	Value	Symbol Specs	Type Specs
Boundary Line Status	Disputed	Dashed Line Color: Black	**Label and Name:** Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.007" Dash Length: 0.17" Dash Spacing: 0.033"	Style: SL CAPS Size: 6 Spacing: 0
Positional Accuracy	Definite, Indefinite, or Unspecified		

NOTE: BOUNDARY LINE associated with MINOR CIVIL DIVISION

Symbol#: BOUNDARY_LINE_L016
Dimension: 1

NAM

Attribute	Value	Symbol Specs	Type Specs
Boundary Line Status	Approved	Dashed Line Color: Black	**Name:** Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.007" Dash Spacing: 0.02" Long Dash Length: 0.08"	Style: SL CAPS Size: 6 Spacing: 0
Positional Accuracy	Definite	Short Dash Length: 0.04"	

NOTE: BOUNDARY LINE associated with CITY

Symbol#:   BOUNDARY_LINE_L017
Dimension: 1

NAM
INDEFINITE BOUNDARY
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Attribute	Value	Symbol Specs	Type Specs
Boundary Line Status	Approved	Dashed Line	**Label and Name:**
		Color: Black	Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.007"	Style: SL CAPS
		Dash Spacing: 0.02"	Size: 6
		Long Dash Length: 0.08"	Spacing: 0
Positional Accuracy	Indefinite	Short Dash Length: 0.04"	

NOTE: BOUNDARY LINE associated with CITY
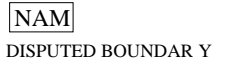
Symbol#:   BOUNDARY_LINE_L018
Dimension: 1

NAM
DISPUTED BOUNDAR Y
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Attribute	Value	Symbol Specs	Type Specs
Boundary Line Status	Disputed	Dashed Line	**Label and Name:**
		Color: Black	Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.007"	Style: SL CAPS
		Dash Spacing: 0.02"	Size: 6
		Long Dash Length: 0.08"	Spacing: 0
Positional Accuracy	Definite, Indefinite, or Unspecified	Short Dash Length: 0.04"	

NOTE: BOUNDARY LINE associated with CITY

Symbol#:   BOUNDARY_LINE_L019
Dimension: 1

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Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Dashed Line Color: Black Lineweight: 0.007" Dash Length: 0.25" Dot Diameter: 0.01" Dash Dot Spacing: 0.05"	**Name:** Color: Black Style: SL CAPS Size: 6 Spacing: 0

NOTE: BOUNDARY LINE associated with RESERVATION, Administrative Status =
County, Tribe/BIA, Native Corporation, Regional, or State

Symbol#:   BOUNDARY_LINE_L020
Dimension: 1

NAM

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Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Dashed Line Color: Black Lineweight: 0.007" Dash Length: 0.25" Dot Diameter: 0.01" Dash Dot Spacing: 0.05" Line Color: Red Lineweight: 0.1" Screen: 20%, 150-line biangle Positioning: one edge along dashed line, within RESERVATION	**Name:** Color: Black Style: SL CAPS Size: 6 Spacing: 0

NOTE: BOUNDARY LINE associated with RESERVATION, Administrative Status =
Federal (Exterior boundary of Federally administered unit)

Symbol#:   BOUNDARY_LINE_L021
Dimension: 1

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Dashed Line Color: Black Lineweight: 0.007" Dash Length: 0.25" Dot Diameter: 0.01" Dash Dot Spacing: 0.05" Line Color: Red Lineweight: 0.05" Screen: 20%, 150-line biangle Positioning: centered along dashed line	**Name:** Color: Black Style: SL CAPS Size: 6 Spacing: 0

NOTE: BOUNDARY LINE associated with RESERVATION, Administrative Status =
Federal (Adjoining exterior boundaries of Federally administered units)

Symbol#:   BOUNDARY_LINE_L022
Dimension: 1

VON SCHMIDT LINE (1873)

Attribute	Value	Symbol Specs	Type Specs
Boundary Line Status	Historical	Dashed Line Color: Black Lineweight: 0.007" Dash Length: 0.17" Dash Spacing: 0.02"	**Label:** Color: Black Style: SL CAPS Size: 6 Spacing: 0

Symbol#:   BOUNDARY-LINE_L101
Dimension: 1

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Dashed Line Color: Black Lineweight: 0.003" Dash Length: 0.04" Dash Spacing: 0.02"	**Name:** Color: Black Style: SL CAPS Size: 6 Spacing: 0

NOTE: BOUNDARY LINE associated with RESERVATION, Reservation Type = Park, Administrative Status = County

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

The symbolization of BOUNDARY LINES that are coincident with other BOUNDARY LINES is determined by the feature associated with the BOUNDARY LINE. From most important to least important, the hierarchy is:

BOUNDARY LINE associated with NATION

BOUNDARY LINE associated with STATE/TERRITORY

BOUNDARY LINE associated with COUNTY

BOUNDARY LINE associated with MINOR CIVIL DIVISION

BOUNDARY LINE associated with CITY

BOUNDARY LINE associated with RESERVATION

If BOUNDARY LINE coincides ROAD, and is not associated with RESERVATION,
with Reservation Type = Park, Administrative Status = County,
Then resymbolize_section of dashed line using lineweight 0.003",
Else suppress_section.

If BOUNDARY LINE is associated with RESERVATION, with Reservation Type = Park, Administrative Status = County, and the RESERVATION is < 3.5 square inches (0.50 square miles) in area,
Then resymbolize using L101 (small county park symbol).

If BOUNDARY LINE coincides with BOUNDARY POINT,
Then suppress_section.

BOUNDARY LINES associated with NATION, STATE/TERRITORY, or COUNTY, with Boundary Line Status = Disputed and Positional Accuracy = Unspecified, are not shown on the map.

<u>Names and Labels</u>

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Boston North, MA (BOUNDARY LINE around MINOR CIVIL DIVISION)
Danville, VA (BOUNDARY LINE around STATE/TERRITORY)
Fairfax, VA (BOUNDARY LINE around COUNTY (county equivalent Fairfax City))
Hogansburg, NY-ONT-QUE (BOUNDARY LINE around NATION)
Naguabo, P.R. (BOUNDARY LINE around COUNTY (county equivalent municipio))
Navasota, TX (BOUNDARY LINE around CITY)
Northeast Missoula, MT (BOUNDARY LINE around CITY)
Pahoa, HI (Ahupuaa BOUNDARY LINE, homestead entry BOUNDARY LINE)
Parkersburg, WV 1978
Port Townsend North, WA (BOUNDARY LINE around RESERVATION (Military))
Shenandoah, PA (BOUNDARY LINE around COUNTY (county equivalent boro))
St. Augustine Beach, FL (BOUNDARY LINE around RESERVATION (County Park))
Topaz Lake, NV-CA (Historical BOUNDARY LINE (Von Schmidt Boundary 1873))
Washington, VA (BOUNDARY LINE around RESERVATION (Shenandoah National Park))

BOUNDARY POINT - An identified location on or near a current boundary or former boundary.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Boundary Point Identifier	Officially accepted identifier consisting of alphabetic and/or numerical symbols
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Boundary Point Type	Relationship of the point to a boundary
General Case	Common use
Reference	Point that defines an adjacent boundary
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

BOUNDARY POINT is the location as marked by or referenced from POINT MONUMENT.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional		> 0	
1-dimensional			
2-dimensional			

Special Conditions:

DATA EXTRACTION

Capture Conditions

If BOUNDARY POINT is monumented, and is located on or is a reference point for BOUNDARY LINE, and is officially accepted,
Or
If BOUNDARY POINT is unmonumented, and is located on BOUNDARY LINE, and is defined by an officially accepted reference monument,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

If a monument exists at the location of BOUNDARY POINT, then there will be two features captured, BOUNDARY POINT, to describe the purpose of the marker, and POINT MONUMENT, to describe the actual structure.

If BOUNDARY POINT meets capture conditions, and has third order or better vertical or horizontal control established on it,
Then capture BOUNDARY POINT and POINT MONUMENT.

If BOUNDARY POINT meets capture conditions and has an established SPOT ELEVATION,
Then capture BOUNDARY POINT and SPOT ELEVATION.

Do not capture points that relate only to Public Land Survey System or Land Grant as BOUNDARY

POINT. See SURVEY CORNER.

If a survey location defines the limits of more than one survey type (PLSS-related survey versus an administrative boundary),
Then capture one feature, either SURVEY CORNER or BOUNDARY POINT, based on the intended purpose of establishing the original monument.

BOUNDARY POINT on disputed BOUNDARY LINE is 'officially accepted' if recognized by at least one of the contesting official entities.

Graphic

Capture as shown on the graphic. If feature is shown in black, capture BOUNDARY POINT. If feature is shown in red, capture SURVEY CORNER.

Revision - General

Revision - Standard

Revision - Limited

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#: BOUNDARY_POINT_P001
Dimension: 0

| BPI |

Attribute	Value	Symbol Specs	Type Specs
Boundary Point Identifier	(Alphanumeric) or Unspecified	Dot Color: Black Diameter: 0.006" Positioning: centered in square	**Boundary Point Identifier:** Color: Black Style: UL C/lc Size: 6 Spacing: 0
Boundary Point Type	General Case or Reference	Symbol Orientation Orientation: align parallel to south projection line Origin: center of symbol	
		Square Color: Black Lineweight: 0.003" Square Size: 0.04"	

Symbol#:   BOUNDARY_POINT_P101
Dimension: 0

BPI

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Attribute	Value	Symbol Specs	Type Specs
Boundary Point Identifier	(Alphanumeric) or Unspecified	Circle Color: Black Lineweight: 0.003" Diameter: 0.04" Dot Color: Black Diameter: 0.006" Positioning: centered in circle Symbol Orientation Origin: center of symbol	**Boundary Point Identifier:** Color: Black Style: UL C/lc Size: 6 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

If BOUNDARY POINT is not coincident with POINT MONUMENT,
Then resymbolize using P101.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

If BOUNDARY POINT is coincident with control station,
Then the "Horizontal Station Name" label and/or the "B.M. plus elevation" label will take the primary label position and the Boundary Point Identifier will take the secondary label position.

If BOUNDARY POINT is coincident with SPOT ELEVATION,
Then the BOUNDARY ID label will take the primary label position and the Boundary Point Identifier will take the secondary label position.

EXAMPLES

    Alexandria, VA-DC-MD
    Boston North, MA
    Dover West, NH
    Hogansburg, NY-ONT-QUE
    Manassas, VA
    Shenandoah, PA
    Southeat Missoula, MT
    Washington West, DC-MD-VA

CITY - An incorporated, populated place such as a village, city, town, or borough, including an independent city.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks
Population	Number of inhabitants
(Integer Value)	Minimum Value: 1 Maximum Value: 9999999 Precision: 0 Length: 7 Increment: 1 Units:

DELINEATION

The limit of CITY is the extent of jurisdictional authority.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

Capture all.

Attribute Information

Population values should be obtained from the decennial Census data for the census immediately prior to the date of the most current source material.

Source Interpretation Guidelines

All

If CITY is a consolidated city/county government or an independent city,
Then capture both COUNTY and CITY.

If CITY exists within MINOR CIVIL DIVISION,
Then capture both CITY and MINOR CIVIL DIVISION.

If CITY exists exclusive of MINOR CIVIL DIVISION,
Then capture only CITY.

If CITY and MINOR CIVIL DIVISION are coextensive,
Then capture both CITY and MINOR CIVIL DIVISION.

See Appendix 4A to determine which combinations of CITY and MINOR CIVIL DIVISION occur in

which States.

Graphic

Revision - General

Revision - Standard

Revision - Limited

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#: CITY_A001
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black
Population	between 1 and 25 inclusive		Style: SM C/lc Size: 8 Spacing: 0

Symbol#: CITY_A002
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black
Population	between 26 and 150 inclusive		Style: SM C/lc Size: 9 Spacing: 0

Symbol#: CITY_A003
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black
Population	between 151 and 999 inclusive		Style: SM C/lc Size: 10 Spacing: 0

Symbol#: CITY_A004
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black
Population	between 1000 and 2500 inclusive		Style: SM C/lc Size: 11 Spacing: 0

Symbol#: CITY_A005
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black
Population	between 2501 and 5000 inclusive		Style: SM C/lc Size: 12 Spacing: 0

Symbol#: CITY_A006
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black
Population	between 5001 and 10000 inclusive		Style: SM CAPS Size: 10 Spacing: 0-10

Symbol#: CITY_A007
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black
Population	between 10001 and 25000 inclusive		Style: SM CAPS Size: 12 Spacing: 1-10

Symbol#: CITY_A008
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black
Population	between 25001 and 250000 inclusive		Style: SM CAPS Size: 14 Spacing: 1-10

Symbol#:   CITY_A009
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black
Population	between 250000 and 999999 inclusive		Style: SM CAPS Size: 16 Spacing: 1-10

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Navasota, TX
Northeast Missoula, MT

COUNTY - Second order division of a nation such as parish, borough, municipio, judicial division, and independent cities in Maryland, Missouri, Nevada, and Virginia.

ATTRIBUTE/ATTRIBUTE VALUE LIST

FIPS Code Identifier - 2nd	Code for the second order subdivisions of the United States
(Alphanumeric)	Length Value: 3
Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of COUNTY is the extent of jurisdictional authority.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

Capture all.

Attribute Information

Source Interpretation Guidelines

All

If COUNTY is a consolidated city/county government or an independent city,
Then capture both COUNTY and CITY.

If adjacent COUNTIES are associated with separate monumented, disputed BOUNDARY LINES,
Then capture the disputed area as part of each COUNTY.

See Appendix 4A to determine which areas within which states are captured as COUNTY.

Name and FIPS Code Identifier should be obtained from the Federal Information Processing Standards
(FIPS) Publication 6-4. Counties are the first-order subdivisions of a State or Territory in FIPS.

Graphic

Revision - General

Revision - Standard

Revision - Limited

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    <u>Inclusion Conditions</u>

        All required

    <u>Generalization</u>

PRODUCT GENERATION at 1:24,000 scale

    <u>Symbolization</u>

Symbol#: COUNTY_A001
Dimension: 2

NAM

Attribute	**Value**	**Symbol Specs**	**Type Specs**
Name	(Alphanumeric)	N/A	**Name:** Color: Black Style: SM CAPS Size: 8 Spacing: 0

    <u>Conflict Detection and Resolution</u>

        Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

    <u>Names and Labels</u>

        Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

        Selection

            TBD

        Placement

        Place Name within area, parallel to and 0.02" away from the BOUNDARY LINE that is associated with COUNTY, and the Names for adjacent COUNTIES centered below/above each other on opposite sides of BOUNDARY LINE.

EXAMPLES

    Fairfax, VA (COUNTY equivalent (Fairfax City))
    Hogansburg, NY-ONT-QUE
    Naguabo, P.R. (COUNTY equivalent (municipio))

MINOR CIVIL DIVISION - Third order division of a nation such as township, town, district, precinct, or barrio.

ATTRIBUTE/ATTRIBUTE VALUE LIST

FIPS Code Identifier - 3rd	Code for the third order subdivisions of the United States
(Alphanumeric)	Length Value: 5
Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of MINOR CIVIL DIVISION is the extent of jurisdictional authority.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

If MINOR CIVIL DIVISION is not in the State of Nebraska and has an active government or is in the State
of West Virginia,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

If CITY exists within MINOR CIVIL DIVISION,
Then capture both CITY and MINOR CIVIL DIVISION.

If CITY and MINOR CIVIL DIVISION are coextensive,
Then capture both CITY and MINOR CIVIL DIVISION.

See Appendix 4A to determine which combinations of CITY and MINOR CIVIL DIVISION occur in
which States.

Name and FIPS Code Identifier should be obtained from the Federal Information Processing Standards
(FIPS) Publication 55. Minor Civil Divisions are the second-order subdivisions of a State or Territory
in FIPS.

If CITY exists exclusive of MINOR CIVIL DIVISION,
Then capture only CITY.

Graphic

Revision - General

Revision - Standard

Revision - Limited

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

Inclusion Conditions

All required

Generalization

PRODUCT GENERATION at 1:24,000 scale

Symbolization

Symbol#:   MINOR_CIVIL_DIVISION_A001
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black Style: SL CAPS Size: 6-16 Spacing: 0-28 Screen: 50%, 150-line biangle

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

    Naguabo, P.R. (Barrio)
    Boston North, MA (Winchester and Stoneham 'towns')

NATION - An area under the jurisdiction of a sovereign government.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of NATION is the extent of jurisdictional authority.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

    <u>Capture Conditions</u>

        If NATION is Canada, Mexico, Russia, or the United Kingdom,
        Then capture.

    <u>Attribute Information</u>

    <u>Source Interpretation Guidelines</u>

        All

        Graphic

        Revision - General

        Revision - Standard

        Revision - Limited

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

Inclusion Conditions

All required

Generalization

PRODUCT GENERATION at 1:24,000 scale

Symbolization

Symbol#: NATION_A001
Dimension: 2

NAM

UNITED STATES

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Label and Name:** Color: Black Style: SM CAPS Size: 8 Spacing: 0

Symbol#: NATION_A101
Dimension: 2

ESTADOS UNIDOS MEXICANOS

UNITED STATES OF AMERICA

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Label and Name:** Color: Black Style: SM CAPS Size: 8 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

If Name = Mexico, and other topographic information is shown for Mexico,
Then resymbolize with A101.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

Place Name within area, parallel to and 0.02" away from BOUNDARY LINE that is associated with NATION, and the label centered below/above Name on the opposite side of BOUNDARY LINE.

EXAMPLES

Hogansburg, NY-ONT-QUE

POINT MONUMENT - A structure that marks the location of a point determined by surveying.

ATTRIBUTE/ATTRIBUTE VALUE LIST

N/A

DELINEATION

The limit of POINT MONUMENT is the extent of the marker.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional		> 0	
1-dimensional			
2-dimensional			

Special Conditions:

DATA EXTRACTION

Capture Conditions

If POINT MONUMENT marks SURVEY CORNER and the monument is one of the following:
  pits and mounds with buried durable material such as charcoal, glass, etc.,
  a scribed wooden stake or post,
  a scribed set stone or mark on stone,
  an iron post with a GLO or BLM inscribed cap,
  a marked tablet set in a concrete post or rock,
  a corner location referenced by a bearing tree,
  a scribed section corner tree,
Or
If POINT MONUMENT marks BOUNDARY POINT,
Then capture.

Attribute Information

N/A

Source Interpretation Guidelines

All

POINT MONUMENT always exists with at least one other feature that is captured at the same location. For example, if POINT MONUMENT exists at a location along a boundary, then POINT MONUMENT is captured to describe the actual structure, and BOUNDARY POINT is captured to describe the purpose of the marker. POINT MONUMENT may coexist with BOUNDARY POINT (Boundaries Theme) or SURVEY CORNER (PLSS Theme).

If POINT MONUMENT and BOUNDARY POINT are captured,
Then collect in the theme Boundaries.

If POINT MONUMENT and SURVEY CORNER are captured,
Then collect in the theme Public Land Survey System.

A fence corner, rock cairn, iron pipe, unmarked wooden stake or post, unmarked stone, or other indicated corners are not captured as POINT MONUMENT. See SURVEY CORNER (PLSS theme).

The material used to mark the monument determines whether POINT MONUMENT is captured. However, this information is not collected.

Graphic

PLSS survey corners shown as indicated corners (lineweight 0.005") are not collected.

PLSS survey corners shown as true or found corners (lineweight 0.01") are collected as POINT MONUMENT and SURVEY CORNER (PLSS theme).

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

Inclusion Conditions

All required

Generalization

PRODUCT GENERATION at 1:24,000 scale

Symbolization

Symbol#: POINT_MONUMENT_P001
Dimension: 0

Attribute	**Value**	**Symbol Specs**	**Type Specs**
N/A	N/A	N/A	N/A

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

N/A

Placement

N/A

EXAMPLES

RESERVATION - Bounded land set aside for a particular purpose, generally having certain use restrictions.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Administrative Status	The managing authority
County	
Federal	
Native Corporation	
Regional	Group of state, county, and/or city governments
State	
Tribe/BIA	
Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks
Reservation Type	Function or purpose
Forest	Area primarily for the management of forest resources
Grassland	Area primarily for the management of native grasses
Hawaiian Homestead	As defined by the State of Hawaii
Text	
(Alphanumeric)	Length Value: 99

Unspecified   The value is not known and is not required

Indian Land   As defined by Bureau of Indian Affairs

   Text

      (Alphanumeric)   Length Value: 99

      Unspecified   The value is not known and is not required

Military   Area for carrying out military activities

   Text

      (Alphanumeric)   Length Value: 99

      Unspecified   The value is not known and is not required

Park   Area for public recreation and preservation of a cultural or
                                         natural resource

   Text

      (Alphanumeric)   Length Value: 99

      Unspecified   The value is not known and is not required

Prison   Area for housing persons convicted and sentenced for crimes

   Text

      (Alphanumeric)   Length Value: 99

      Unspecified   The value is not known and is not required

Unspecified   The value is not known and is not required

   Text

      (Alphanumeric)   Length Value: 99

Unspecified   The value is not known and is not required

Wilderness   Area virtually unsettled and uncultivated (natural); includes
                                     areas designated by an administrative group as wilderness,
                                     primitive, wild and scenic, or similar designation

  Text

    (Alphanumeric)   Length Value: 99

    Unspecified   The value is not known and is not required

Wildlife   Area primarily for wildlife management or preservation;
                                     includes the following areas: conservation, game,
                                     hunting/fishing, preserve, or other "wildlife" designation

  Text

    (Alphanumeric)   Length Value: 99

    Unspecified   The value is not known and is not required

DELINEATION

    The limit of RESERVATION is the extent of jurisdictional authority.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

Capture all.

Attribute Information

If Reservation Type = Hawaiian Homestead, Indian Land, Military, Park, Prison, Unspecified, Wilderness, or Wildlife, and Name = (Alphanumeric),
Then Text = Unspecified,
Else Text = (Alphanumeric).

If Reservation Type = Forest or Grassland,
Then Name = (Alphanumeric).

If Reservation Type = Hawaiian Homestead,
Then Administrative Status = State.

Source Interpretation Guidelines

All

See Appendix 4B for information on Attribute Value selection.

Non-reservation areas completely surrounded by RESERVATION, which are < 0.1" along the shortest axis, are collected as part of the RESERVATION.

RESERVATION may totally or partially coincide with a feature that is a complex, such as AQUACULTURE SITE, CAMPGROUND, OUTDOOR THEATER, or SPORTS SITE. The feature captured as a complex represents the "cover of intensive use....", whereas RESERVATION represents the particular administration.

Do not capture former Indian Reservations as RESERVATION. Where they limit the Public Land Survey System, the limits of these areas are captured as SURVEY LINE (PLSS theme).

Do not capture city and private parks as RESERVATION. See PARK (Built-Up theme).

"Research Natural Areas" of the U.S. Forest Service are not captured as RESERVATION. These areas are not shown on USGS maps, per request of the U.S. Forest Service.

Text is used as an attribute to fully describe RESERVATION that does not have a proper name.

Indian Lands may coincide with another RESERVATION. In these cases, data collection and symbolization are determined on a case by case basis.

Graphic

Revision - General

Revision - Standard

Revision - Limited

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#: RESERVATION_A001
Dimension: 2

NAM

TXT

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	N/A	**Name and Text:** Color: Black Style: SM CAPS Size: 6-16 Spacing: 0-28
Reservation Type	Hawaiian Homestead, Indian Land, Military, Park, Prison, Unspecified, Wilderness, or Wildlife		
Text	(Alphanumeric) or Unspecified		

Symbol#: RESERVATION_A002
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black
Reservation Type	Forest or Grassland		Style: SM CAPS Size: 6-16 Spacing: 0-28

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

Place Name horizontally near the center of the area being named. Place Name vertically where space restrictions and appearance warrant.

Where only part of the RESERVATION is shown on the map, place Name off center to indicate that RESERVATION extends beyond the limit of the map.

Where the entire map is within a RESERVATION, place Name in the center of the map.

When one RESERVATION overlaps another, or contains a subdivision, place Name of the exterior RESERVATION across its boundary with the interior unit.

Place labels within area, parallel to and 0.025" away from BOUNDARY LINE associated with RESERVATION. Displace labels 0.02" from any feature that interferes with normal placement by creating an overprint or poor legibility.

Orient labels positioned horizontally or diagonally (any angle) to read from left to right. Orient labels positioned vertically (i.e. parallel to the meridian) to read from bottom to top.

EXAMPLES

Akaka Falls, HI (Hilo Closed Watershed, Kaiwiki Homesteads)
Bandera, WA (P-Map) (Cedar River Watershed)
Camp Lejeune, NC (Camp Lejeune Military RESERVATION)
Fredericksburg, VA (Fredericksburg Battlefield)

Gainsville, VA (Manassas National Battlefield Park)
Gettysburg, PA (Gettysburg National Military Park)
Honolulu, HI (Diamond Head State Monument, Coast Guard RESERVATION)
Kaibito, AZ (Navajo Indian RESERVATION)
Kino Peak, AZ (Organ Pipe Cactus National Monument)
Makaha Point, HI (Kuia Natural Area Preserve)
Occoquan, Va (District of Columbia Department of Corrections)
San Fransisco North, CA (Presidio Military RESERVATION, National Cemetery)
Sherando, VA (Blue Ridge Parkway)
Williamsburg, VA (Colonial National Hist. Pkwy., Williamsburg Battlefield)

STATE/TERRITORY - First order division of a nation.

ATTRIBUTE/ATTRIBUTE VALUE LIST

FIPS Code Identifier - 1st	Code for first order subdivisions of the United States
(Alphanumeric)	Length Value: 2
Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of STATE/TERRITORY is the extent of jurisdictional authority.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

Capture all.

Attribute Information

Source Interpretation Guidelines

All

If adjacent STATE/TERRITORIES are each associated with separate monumented disputed
BOUNDARY LINES,
Then capture the disputed area as part of each STATE/TERRITORY.

Name and FIPS Code Identifier should be obtained from the Federal Information Processing Standards
(FIPS) Publication 5-2.

Graphic

Revision - General

Revision - Standard

Revision - Limited

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

   Inclusion Conditions

      All required

   Generalization

PRODUCT GENERATION at 1:24,000 scale

   Symbolization

_____
                                                          Symbol#:   STATE_TERRITORY_A001
                                                          Dimension: 2

   NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black Style: SM CAPS Size: 8 Spacing: 0

   Conflict Detection and Resolution

      Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

   Names and Labels

      Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

      Selection

         TBD

      Placement

         Place Name within area, parallel to and 0.02" away from BOUNDARY LINE that is associated with STATE/TERRITORY, and Names for adjacent STATE/TERRITORIES centered below/above each other on either side of BOUNDARY LINE.

EXAMPLES

    Danville, VA (STATE)

APPENDIX 4A

Civil Divisions

State (First Order)	County (Second Order)	Minor Civil Division (Third Order)	City (Incorporated Place)
Alabama	Counties		Cities, Towns
Alaska	Boroughs, the "unorganized borough" (not labeled)		Cities
Arizona	Counties		Cities, Towns
Arkansas	Counties		Cities, Towns
California	Counties		Cities, Towns
Colorado	Counties		Cities, Towns
Connecticut	Counties	Towns	Cities, Boroughs[1]
Delaware	Counties		Cities, Towns, Villages
District of Columbia	District of Columbia (County equivalent)		
Florida	Counties		Cities, Towns, Villages
Georgia	Counties		Cities, Towns
Hawaii	Counties	Districts	Cities (Honolulu only)
Idaho	Counties		Cities
Illinois	Counties	Townships	Cities, Incorporated Towns[1], Villages
Indiana	Counties	Townships	Cities, Towns[2]
Iowa	Counties	Townships	Cities
Kansas	Counties	Townships	Cities[3]

State (First Order)	County (Second Order)	Minor Civil Division (Third Order)	City (Incorporated Place)
Kentucky	Counties		Cities
Louisiana	Parishes		Cities, Towns, Villages
Maine	Counties	Plantations, Towns	Cities[4]
Maryland	Counties, Independent Cities		Cities, Towns, Villages
Massachusetts	Counties	Towns	Cities[4]
Michigan	Counties	Townships	Cities, Villages[5]
Minnesota	Counties	Townships	Cities[4]
Mississippi	Counties		Cities, Towns, Villages
Missouri	Counties, Independent Cities	Townships	Cities, Towns, Villages[1]
Montana	Counties, Yellowstone National Park		Cities, Towns
Nebraska	Counties		Cities, Villages[3]
Nevada	Counties, Independent Cities		Cities, Towns
New Hampshire	Counties	Towns	Cities[4]
New Jersey	Counties	Townships	Cities, Towns, Boroughs, Villages[4]
New Mexico	Counties		Cities, Towns, Villages
New York	Counties	Towns	Cities, Villages[5]
North Carolina	Counties		Cities, Towns, Villages
North Dakota	Counties	Townships	Cities[4]
Ohio	Counties	Townships	Cities, Villages[2]

State (First Order)	County (Second Order)	Minor Civil Division (Third Order)	City (Incorporated Place)
Oklahoma	Counties		Cities, Towns
Oregon	Counties		Cities, Towns
Pennsylvania	Counties	Boroughs, Cities, one Incorporated Town, Townships	
Rhode Island	Counties	Towns	Cities[4]
South Carolina	Counties		Cities, Towns
South Dakota	Counties	Townships	Cities, Towns[4]
Tennessee	Counties		Cities, Towns
Texas	Counties		Cities, Towns, Villages
Utah	Counties		Cities, Towns
Vermont	Counties	Towns	Cities, Villages[3]
Virginia	Counties, Independent Cities		Towns
Washington	Counties		Cities, Towns
West Virginia	Counties	Districts	Cities, Towns, Villages
Wisconsin	Counties	Towns	Cities, Villages[4]
Wyoming	Counties		Cities, Towns

_____

1. In areas within the State where Minor Civil Divisions exist, Cities (incorporated places) can be either within or coextensive with the area of any Minor Civil Division.

2. In areas within the State where Minor Civil Divisions exist, Cities (incorporated places) are within the area of any Minor Civil Division.

3. In areas within the State where Minor Civil Divisions exist, Cities (incorporated places) can be either within or exclusive of the area of any Minor Civil Division.

4. Cities (incorporated places) are exclusive of the area of any Minor Civil Division.

5. In areas within the State where Minor Civil Divisions exist, Cities (incorporated places) can be either within, exclusive of, or coextensive with the area of any Minor Civil Division.

Outlying areas of the United States, the Freely Associated States, and Trust Territory

State (First Order)	County (Second Order)	Minor Civil Division (Third Order)	City (Incorporated Place)
American Samoa	Districts and Islands	Counties	
Federated States of Micronesia	States	Municipalities	
Guam	Guam (County equivalent)	Municipalities	
Marshall Islands	Municipalities		
Northern Mariana Islands	Municipalities		
Palau	States		
Puerto Rico	Municipios		
U.S. Minor Outlying Islands	Islands		
Virgin Islands of the U.S.	Islands		

APPENDIX 4B

Examples of Reservation Types

Table 1
Generic Examples of Reservation Types

Reservation Type	Examples
Forest	Forest
Grassland	Grassland
Indian Land	Indian Reservation, Rancheria
Military	Air Force Base, Ammunition Depot, Arsenal, Bombing and Gunnery Range, Coast Guard Station, Fort, Military Airfield, Military Reservation, National Guard Training Site, Naval Air Station, Weapons Station
Park	Battlefield, Battlefield Park, Battlefield Site, Historical Park, Lakeshore, Memorial, Military Park, Monument, Park, Parkway, Recreation Area, Seashore
Prison	Penitentiary, Prison
Unspecified	Cemetery, DOE Areas, Experimental and Research Areas, Scenic Research Areas, etc.
Wilderness	Riverway, Scenic Riverway, Scenic Waterway, Wild and Scenic River, Wilderness Area
Wildlife	Animal Farm, Aquatic Preserve, Conservation Area, Estuarine Sanctuary, Fish and Wildlife Area, Fish Hatchery, Game Land, Game Management Area, Game Preserve, Game Refuge, Hunting and Fishing Area, Natural Area, Natural Area Reserve, Wild Horse Range, Wildlife Area, Wildlife Management Area, Wildlife Preserve, Wildlife Range, Wildlife Refuge, Wildlife Research Center, Wildlife Reserve, Wildlife Sanctuary

Table 2[1]
Special Areas and Their DLG-F Feature Equivalent

Area	Feature	Attribute	Attribute Value
Special Areas - National:			
Ammunition Depot	Reservation	Reservation Type	Military
Archaeological Site	Archaeological Site		
Arsenal	Reservation	Reservation Type	Military
Battlefield Park	Reservation	Reservation Type	Park
Battlefield	Reservation	Reservation Type	Park
Battlefield Site	Reservation	Reservation Type	Park
Cemetery	Reservation	Reservation Type	Unspecified
Conservation Area	Reservation	Reservation Type	Wildlife
Coast Guard Base	Reservation	Reservation Type	Military
Department of Energy Area	Reservation	Reservation Type	Unspecified
Experimental and Research Areas	Reservation	Reservation Type	Unspecified
Fish Hatchery	Reservation	Reservation Type	Unspecified
Forest	Reservation	Reservation Type	Forest
Former Indian Reservation	Boundary Line		
Game Preserve	Reservation	Reservation Type	Wildlife
Game Refuge	Reservation	Reservation Type	Wildlife
Grassland	Reservation	Reservation Type	Grassland
Historical Park	Reservation	Reservation Type	Park
Historic District	Locale		
Historic Site	Reservation	Reservation Type	Park
Historic Trail	Trail		
Hospital	Reservation	Reservation Type	Military or Unspecified
Indian Reservation	Reservation	Reservation Type	Indian Land
Lakeshore	Reservation	Reservation Type	Park
Memorial	Reservation	Reservation Type	Park
Military Airfield	Reservation	Reservation Type	Military

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1. This table provides a reference for attributing areas that will be captured
as RESERVATIONS. Other non-RESERVATION areas and their DLG-F feature
equivalents are included in the table for reference only; no attempt has been
made to present a complete or exhaustive list of USGS areas in this table.

Table 2--continued

Area	Feature	Attribute	Attribute Value
Special Areas - National: (cont.)			
Monument	Reservation	Reservation Type	Park
Reserve	Reservation	Reservation Type	Wildlife
Scenic Research Area	Reservation	Reservation Type	Unspecified
Scenic River/Scenic RiverwayScenic Trail	Reservation Trail	Reservation Type	Wilderness
Seashore	Reservation	Reservation Type	Park
Wilderness	Reservation	Reservation Type	Wilderness
Wild and Scenic River	Reservation	Reservation Type	Wilderness
Wild Horse Range	Reservation	Reservation Type	Wildlife
Wildlife Management Area	Reservation	Reservation Type	Wildlife
Wildlife Range	Reservation	Reservation Type	Wildlife
Wildlife Refuge	Reservation	Reservation Type	Wildlife
Wildlife Research Center	Reservation	Reservation Type	Wildlife
Wildlife Sanctuary	Reservation	Reservation Type	Wildlife
Zoo	Reservation	Reservation Type	Park

Table 2--continued

Area	Feature	Attribute	Attribute Value
Special Areas - State:			
Aquatic Preserve	Reservation	Reservation Type	Wildlife
Beach	Beach		
Cemetery	Reservation	Reservation Type	Unspecified
Conservation Area	Reservation	Reservation Type	Wildlife
Estuarine Sanctuary	Reservation	Reservation Type	Wildlife
Fish and Wildlife Area	Reservation	Reservation Type	Wildlife
Fish Hatchery	Reservation	Reservation Type	Unspecified
Forest	Reservation	Reservation Type	Forest
Game Land	Reservation	Reservation Type	Wildlife
Game Management Area	Reservation	Reservation Type	Wildlife
Game Preserve	Reservation	Reservation Type	Wildlife
Game Refuge	Reservation	Reservation Type	Wildlife
Historic Site	Institutional Site	Institutional Type	Historical
Hospital	Institutional Site	Institutional Type	Medical
Hunting and Fishing Area	Reservation	Reservation Type	Wildlife
Indian Reservation	Reservation	Reservation Type	Indian Land
Memorial	Reservation	Reservation Type	Park
National Guard Training Site	Reservation	Reservation Type	Military
Natural Area	Reservation	Reservation Type	Wildlife
Natural Area Reserve	Reservation	Reservation Type	Wildlife
Park	Reservation	Reservation Type	Park
Prison	Reservation	Reservation Type	Prison
Recreation Area	Reservation	Reservation Type	Park
University	Institutional Site	Institutional Type	Education/Research
Wild and Scenic River/Waterway	Reservation	Reservation Type	Wilderness
Wilderness	Reservation	Reservation Type	Wilderness
Wildlife Management Area	Reservation	Reservation Type	Wildlife
Wildlife Area/ Preserve/Reserve	Reservation	Reservation Type	Wildlife

Table 2--continued

Area	Feature	Attribute	Attribute Value
Special Areas - County:			
Cemetery	Cemetery		
Forest	Reservation	Reservation Type	Forest
Game Preserve	Reservation	Reservation Type	Wildlife
Game Refuge	Reservation	Reservation Type	Wildlife
Hospital	Institutional Site	Institutional Type	Medical
Park	Reservation	Reservation Type	Park
Recreation Area	Reservation	Reservation Type	Park
Special Areas - Selected Other:			
Airport	Aircraft Facility		
Amusement Park	Park	Park Type	Amusement
Campground/Campsite	Campground		
Cemetery	Cemetery		
City Park	Park	Park Type	Unspecified
Drive-in Theater	Outdoor Theater	Outdoor Theater Type	Drive-in
Fairground	Exhibition Ground		
Golf Course	Sports Site	Sports Site Type	Golf Course
Picnic Area	Park	Park Type	Picnic Area
Recreational Slide	Recreational Slide		
Sewage Disposal Site	Sewage Disposal Plant		
Ski Area	Sports Site	Sports Site Type	Ski Area
Water Treatment Plant	Filtration Plant		
Zoo	Park	Park Type	Zoo