







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Cartographic Feature File Data Vintage

The Forest Service's Cartographic Feature Files have been collected over a period of almost 20 years. During that time, the Cartographic Feature Files (CFFs) have evolved as the standards, and as specifications have changed, quality has improved. Accordingly, CFF data has been classified by vintages, with each vintage accompanied by a brief description of its derivation and characteristics.

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VINTAGE 1	1978-87. Earliest digital data, collected prior to official start of CFF program; mostly collected in-house without rigorous standards, for purposes of small-scale (1:126,720) mapping.
multilinking	none
tracking	smooth curves not a priority for linear features; possible extraneous points on straight line segments
structure	not checked for overshoots, undershoots, duplicate points, unbroken intersections, or complete polygons
edit methodology	on-screen only, no edit plots used
edgematching	landnet edgematched to adjoining quads within the project, but not to an imaginary neatline drawn between the quads, resulting in overshoots/undershoots; other features received only a cursory check

VINTAGE 2	1988. First CFF digitized by contractors; collected prior to official start of CFF program.
multilinking	coincident lines digitized once, with multiple codes linked to them (except for status with landnet; sand areas with drainage; boundaries with physical features; and swamps or inundation limits with open water).
tracking	smooth curves not a priority for linear features; possible extraneous points on straight line segments
structure	not checked for overshoots, undershoots, duplicate points, or unbroken intersections, or complete polygons
edit methodology	on screen, and using plotted overlays, with focus on correct attributing and alignment
edgematching	features edgematched to adjoining quads within the project, but not to an imaginary neatline drawn between the quads, resulting in overshoots/undershoots; done by contractor, but not checked

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VINTAGE 3	1989. Digitized under contract; official start of CFF program.
multilinking	coincident lines digitized once, with multiple codes linked to them; exceptions-- roads or status with landnet; sand areas with drainage; boundaries with physical features; and swamps or inundation limits with open water
tracking	smooth curves not a priority for linear features
structure	linecheck (LINCK) used to eliminate overshoots, undershoots, duplicate points and unbroken intersections; polygons not checked for completeness
edit methodology	on screen, and using plotted overlays, with focus on correct attributing and alignment
edgematching	features edgematched to adjoining quads within the project, but not to an imaginary neatline drawn between the quads, resulting in overshoots/undershoots

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VINTAGE 4	1990-91. Digitized under contract; data collection and editing procedures standardized.
multilinking	coincident lines digitized once, with multiple codes linked to them, except for roads with landnet
tracking	smooth curves not a priority for linear features
structure	linecheck (LINCK) used to eliminate overshoots, undershoots, duplicate points and unbroken intersections; polygons not checked for completeness
edit methodology	on screen, and using plotted overlays, with focus on correct alignment and attributing
edgematching	features edgematched to adjoining quads within the project, but not to an imaginary neatline drawn between the quads, resulting in overshoots/undershoots

VINTAGE 5	1990-91. Digitized under contract; data collection and editing procedures standardized.
multilinking	coincident lines digitized once, with multiple codes linked to them, except for roads with landnet
tracking	smoothness of linework given greater attention
structure	linecheck (LINCK) used to eliminate overshoots, undershoots, duplicate points and unbroken intersections; polygons not checked for completeness
edit methodology	on screen, and using plotted overlays, with focus on correct alignment and attributing
edgematching	features edgematched to adjoining quads within the project, but not to an imaginary neatline drawn between the quads, resulting in overshoots/undershoots

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VINTAGE 6	1992-93. Digitized under contract; first digitizing guide in use (Dec. '92).
multilinking	coincident lines digitized once, with multiple codes linked to them, except for roads with landnet
tracking	collection and editing standards improved to ensure consistently smooth linework
structure	linecheck (LINCK) used to eliminate overshoots, undershoots, duplicate points and unbroken intersections; polygons not checked for completeness
edit methodology	on screen, and using plotted overlays and automatic feature code checks, to verify proper alignment, correct attribution and proper multilinking
edgematching	features edgematched to adjoining quads within the project, using an imaginary neatline drawn between the quads to eliminate overshoots/undershoots

VINTAGE 7	1993. Digitized under contract; data now more rigorously edited as part of digital hardcopy process.
multilinking	coincident lines digitized once, with multiple codes linked to them, except for roads with landnet
tracking	collection/editing standards ensure consistently smooth linework
structure	linecheck (LINCK) used to eliminate overshoots, undershoots, duplicate points and unbroken intersections; polygons not checked for completeness
edit methodology	on screen, and using plotted overlays and automatic feature code checks, to verify proper alignment, correct attribution and proper multilinking; additional edits performed on those projects destined for digital hardcopy
edgematching	features edgematched to adjoining quads within the project, using an imaginary neatline drawn between the quads to eliminate overshoots/undershoots

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VINTAGE 8	1994. Digitized/revised under contract; data run through the TACS process (an in-house editing and database system); revision projects followed by the digital hardcopy process receive additional edits.
multilinking	coincident lines digitized once, with multiple codes linked to them, except for roads with landnet; automatic valid multilink check now part of process
tracking	collection/editing standards ensure consistently smooth linework
structure	linecheck (LINCK) used to eliminate overshoots, undershoots, duplicate points and unbroken intersections; Intergraph's MGE software used to check polygon structure and completeness of multilinking
edit methodology	on screen, and using automatic feature code checks and two different types of plots with improved symbology, to verify proper alignment, correct attribution and proper multilinking
edgematching	features edgematched to adjoining quads within the project, using an imaginary neatline drawn between the quads to eliminate overshoots/undershoots

VINTAGE 9	1995. Digitized/revised under contract; data run through the TACS process (an in-house editing and database system); revision projects followed by the digital hardcopy process receive additional edits.
multilinking	coincident lines digitized once, with multiple codes linked to them, except for roads with landnet; automatic valid multilink check now part of process
tracking	collection/editing standards ensure consistently smooth linework
structure	linecheck (LINCK) used to eliminate overshoots, undershoots, duplicate points and unbroken intersections; Intergraph's MGE software used to check polygon structure and completeness of multilinking
edit methodology	on screen, and using automatic feature code checks and two different types of plots with improved symbology, to verify proper alignment, correct attribution and proper multilinking
edgematching	features edgematched to adjoining quads within the project, as well as to any adjoining projects that have been through the TACS process and which reside in the TACS database, using an imaginary neatline drawn between the quads to eliminate overshoots/undershoots

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VINTAGE 10	1995-96. Revised to Single Edition Standards; data run through the TACS process (an in-house editing and database system); revision projects followed by the digital hardcopy process receive additional edits.
multilinking	coincident lines digitized once, with multiple codes linked to them, except for roads with landnet; automatic valid multilink check now part of process
tracking	collection/editing standards ensure consistently smooth linework
structure	Intergraph's MGE software used to eliminate overshoots, undershoots, duplicate points and unbroken intersections; and to check polygon structure and completeness of multilinking
edit methodology	on screen, and using automatic feature code checks and two different types of plots with improved symbology, to verify proper alignment, correct attribution and proper multilinking
edgematching	features edgematched to adjoining quads within the project, as well as to any adjoining projects that have been through the TACS process and which reside in the TACS database, using an imaginary neatline drawn between the quads to eliminate the lack of overshoots/undershoots

VINTAGE 11	September 1996 to present. Revised to Single Edition Standards; data run through the TACS process (an in-house editing and database system); revision projects followed by the digital hardcopy process receive additional edits; polygons requiring screened or patterned fills have centroids and a segmented neatline for the open window layer process.
multilinking	coincident lines digitized once, with multiple codes linked to them, except for roads with landnet; automatic valid multilink check now part of process
tracking	collection/editing standards ensure consistently smooth linework
structure	Intergraph's MGE software used to eliminate overshoots, undershoots, duplicate points and unbroken intersections; polygon structure and completeness of multilinking checked by MGE software and the centroid process, which uses a combination of Intergraph and ARC/INFO software
edit methodology	on screen, and using automatic feature code checks and two different types of plots with improved symbology, to verify proper alignment, correct attribution and proper multilinking
edgematching	features edgematched to adjoining quads within the project, as well as to any adjoining projects that have been through the TACS process and which reside in the TACS database, using an imaginary neatline drawn between the quads to eliminate overshoots/undershoots

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