CODING SCHEMES

MARCH 1989

The following lists coding schemes (ie. codes and their definitions) for all data files in NED. Codes for self explanatory fields are not provided, information for the contents of all fields can be found in the DATA STRUCTURE and DATA COLLECTION METHODOLOGY sections.

Three coding systems are common to many fields in NED. They are the summary value codes (VAL), the hi, medium, and low scheme (HML) and the true/false scheme (T/F). These are described here and will later be referred to by their abbreviations.

VAL (summary value)

CODE	DEFINITION
1	Outstanding resource
2	Substantial resource
3	Moderate resource
4	Limited resource
U	Unknown resource
N	No resource

HML (high, medium, low)

CODE	DEFINITION
1	High
2	Medium
3	Low

T/F (true/false)

CODE	DEFINITION
T	True
F	False

FILE NAME = WARIVER.dbf

FIELD NAME	CODING SCHEMES

LEVEL

VALUES 1-8, VALUE 1 is the lowest level reach or the reach that flows into the ocean e.g. Columbia River. A tributary to a given stream is always one level higher than the stream into which it flows.

TYPE

TRANSPORT REACHES

A Artificial Lake Reach - An artificial reach within a lake or reservoir inserted in the file to provide connection between input and output reaches of the open water.

B Bi-directional Reach - A reach for which the direction of flow is ambiguous.

D Dam Reach (a reach which is a dam through which water flows) - A reach which is a dam through which water flows. Its primary and open water names are the same as for next reach upstream on same level.

E Entry Reach - A reach which receives flow from Canada or Mexico

F Falls Reach - A reach which is either a waterfall, drop spillway, or a reach of rapids.

M Artificial Open Water Reach - An artificial reach within any open water, other than a lake or reservoir, to provide connection between input and output reaches of the open water.

N Non-connected Reach - A reach not having codes to link it to other reaches.

R Regular Reach - A reach which has upstream and downstream reaches connected to it and which is not classified as another type of reach.

S   Start Reach - A headwater reach which has no reaches
    above ite in the reach file. This type of reach has
    either one or two reaches connected to its downstream
    end.
T   Terminal Reach - A reach downstream of which there is no
    other reach. This type of reach has either on or two
    reaches connected to its upstream end.
V   Open Water Terminal Reach - A reach which is both a
    terminal reach and an artificial open water reach.
X   Terminal Start Reach - A reach which is both a
    terminal reach and a start reach.
Z   Terminal Entry Reach - A reach which is both a
    terminal reach and an entry reach.

    NON-TRANSPORT REACHES (Shoreline reaches)

C   Continental Shoreline Segment
G   Great Lakes Shoreline Segment
I   Island Shoreline Segment
L   Lake Shoreline Segment - A segment which follows the
    shoreline of a lake other than the Great Lakes.
W   Wide-River Shoreline Segment

REACH-KEY   O   Original - Unchanged EPA reach
                     B   Base - The downstream end of an original reach that has
                         been split - this reach retains all the original
                         attributes of the reach before it was split (i.e.
                         Length, Latitude, Longitude, Pathmile, etc)
                     S   Split - the reaches created by the splitting of an
                         original reach be one or more added reaches
                     A   Added - An (n+1) reach (all new reaches of a stream
                         which flows into an existing reach)
                     C   Added - An (n+2) reach (all new reaches of a stream
                         which flows into a n+1 reach
                     D   Added - An (n+3) reach (all new reaches of a stream
                         which flows into a n+2 reach
                     E   Added - An (n+4) reach (all new reaches of a stream
                         which flows into a n+3 reach
                     F   Added - An added reach that has no downlink
                     Z   Added or Changed - A reach that has been added or
                         changes that does not conform to EPA update standards

STREAM-KEY   H   Start - The uppermost reach of a stream, similar to the
                         EPA 'TYPE=S' for headwater reaches but includes starting
                         reaches of streams formed by the confluence of two
                         other streams
                     T   Terminal - The lowermost reach of a stream, similar to
                         the EPA 'TYPE=T' for Terminal reaches but includes
                         stream reaches which end a stream by flowing into
                         another stream

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                          X   Start/End - A single reach stream which both begins
                              and ends the stream
                          R   Regular - A reach of a stream that is between the
                              start and end reach of that stream

RF-VAL                    VAL
WL-VAL                    VAL
NF-VAL                    VAL
RC-VAL                    VAL
CH-VAL                    VAL
IC-VAL                    VAL
PROT-CAT                  A   Anadromous Fish Only
                          B   Resident Fish and Wildlife
                          C   Anadromous Fish and Resident Fish and Wildlife
                          D   Anadromous Fish and Resident Fish or Wildlife
                          F   Resident Fish Only
                          U   Unprotected
                          W   Wildlife Only
                          Z   Already Protected as a Wild and Scenic Area or
                              Wilderness Area (Idaho only)

RFLAG                     T/F

OWFLAG                    T/F

FERC-STAT                 PP-PND   Preliminary Permit Pending
                          PP-GTD   Preliminary Permit Pending
                          EX-PND   Exemption Pending
                          EX-GTD   Exemption Granted
                          LC-GTD   License Granted
                          LC-POL   Licensed, Power on Line
                          RL-POL   Relicensed, Power on Line
                          FD-POL   Federal Project, Power on Line

ANAD-FLAG                 T/F

FED-SCEN                  T/F

ST-SCEN                   T/F

ST1  -------------|
CO1               |
ST2               |
CO2               |   SEE CODING FOR FILE NAME = CNTY-DEF
ST3               |
CO3               |
ST4               |
CO4  -------------|
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FILE NAME = WL.DBF (WILDLIFE)

FIELD NAME	CODING SCHEMES
WL-HABVAL	HML
WL-HTYPE1	See file name = HAB-DEF for codes
WL-HTYPE2	"
WL-HTYPE3	"
WL-HTYPE4	"
WL-HTYPE5	"
WL-HTYPE6	"
WL-HTYPE7	"
WL-HTYPE8	"
WL-SPPVAL	HML
WL-SPP1	See file name = SPP-DEF for codes
WL-SPP2	"
WL-SPP3	"
WL-SPP4	"
WL-SPP5	"
WL-RECVAL	HML
WL-VAL	VAL

FILE NAME = RF.DBF (RESIDENT FISH)

FIELD NAME	CODING SCHEMES
RF-SPP1	SEE FILE NAME = SPP-DEF.dbf for codes
RF-SPP2	"
RF-SPP3	"
RF-SPP4	"
RF-SPP5	"
RF-HABQUAL	HML
RF-HABCONC	HML
RF-FISHVAL	HML
RF-SPABUND	HML
RF-ANGLUSE	HML
RF-SPRTVAL	HML
RF-VAL	VAL

FILE NAME = AF.DBF (ANADROMOUS FISH)

FIELD NAME	CODING SCHEMES
SP-CHIN	Numeric values from 0.00 to 1.00
SU-CHIN	"
FA-CHIN	"
COHO	"
SU-STHD	"
WI-STHD	"
CHUM	"
SOCKEYE	"
ANADUSE	"
ANAD-FLAG	T/F
NUMSPP	Total number of species present - numeric value

FILE NAME = NF.DBF (NATURAL FEATURES)

FIELD NAME	CODING SCHEMES
NF-VAL	VAL
NF-FEATVL1	VAL
NF-FEATVL2	VAL
NF-FEATVL3	VAL
NF-FEATVL4	VAL
NF-FEATVL5	VAL

NF-TYPE1 --------
NF-TYPE2   –
NF-TYPE3
NF-TYPE4
NF-TYPE5 --------

SP (special plant) Any plant species designated as endangered, threatened or sensitive by the the Washington Natural Heritage Program. Included are all federal candidate species.

PC (plant community) A terrestrial plant association recognized by WNHP and listed in the State of Washington Natural Heritage Plan.

NC (natural community) An estuarine, riparian, or other wetland plant association recongnized by WNHP and listed in the State of Washington Natural Heritage Plan.

B (botnical) All botanical information obtained from sources other than the WNHP data base.

G (geological) All geological information.

PM (potential managed areas) All proposed Research Natural Areas and National Natural Landmarks.

UR (undeveloped reach) All National Park Service undeveloped river reaches with less than 10 development points.

O (other) All occurrences which do not fall within other classes.

NF-FEAT1	Description of the natural feature
NF-FEAT2	"
NF-FEAT3	"
NF-FEAT4	"
NF-FEAT5	"

FILE NAME = CH.DBF (CULTURAL/HISTORICAL)

FIELD NAME	CODING SCHEMES
CH-VAL	VAL
CH-SURVEY	A 76-100%
	B 51-75%
	C 21-50%
	D below 21%
CH-TYPE	A National Historic Landmark
	B National Register Property
	C State Register Property
	D City/County Landmark
	E Native American Burial
CH-PDV	Numeric values for sites per mile

FILE NAME = RC.DBF (RECREATION)

General coding scheme for resource characteristics and recreation activities
is as follows and abbreviated as A/B in the listing of fields.

CODE	DEFINITION
A	High recreation value
B	Above average recreation value
C	Average recreation value
D	Below average recreation value

FIELD NAME	CODING SCHEMES
RC-HYDRLCS	A/B
RC-CHLNGE	A/B
RC-WCLARTY	A/B
RC-SOLITUD	A/B
RC-PRISTIN	A/B
RC-SCENIC	A/B
RC-OTHER1	A/B
RC-WWBOAT	A/B
RC-KAYAK	A/B
RC-FLTWAT	A/B
RC-CAMPPIC	A/B
RC-HKBK	A/B
RC-WILDLIF	A/B
RC-OTHER2	A/B
RC-RELUSE	A/B plus comments
RC-STAFVAL	A/B
RC-USERVAL	A/B
RC-HILOVAL	A/B
RC-VAL	VAL

FILE NAME = IC.DBF (INSTITUTIONAL CONSTRAINTS)

FIELD NAME	CODING SCHEMES

IC-LOCSMA

N Natural
C Conservancy
R Rural
U Urban

IC-STSMA

SC Scenic River Candidate
SR Scenic River
HMA Habitat Management Area
ML   Mitigation Lands
RNA Research Natural Area

IC-FEDSCEN

T/F

IC-FEDFS

BS   Mount Baker-Snoqualmie National Forest
OL   Olympic National Forest
GP   Gifford Pinchot National Forest
WE   Wenatchee National Forest
OK   Okanagon National Forest
CO   Colville National Forest
UM   Umatilla National Forest

IC-FEDPS

MR   Mount Rainier National Park
NC   North Cascades National Park
OY   Olympic National Park

IC-FEDOTH

WS   Wild and Scenic River, Wild and Scenic Study River, or Potential Wild and Scenic River
WN   Wilderness Area
IR   Indian Reservation
MR   Military Reservation

IC-1STVAL--------|
IC-2NDVAL | –
IC-3RDVAL |
IC-4THVAL--------|

1 Federal, state, or local regulations prohibit hydropower development
2 Potential federal prohibition of hydropower development
3 Federal, state or local regulations limit or restrict hydropower debelopment
4 Federal, state or local regulations permit hydropower development with case-specific conditions
U Unclassified or unknown institutional contraints

FILE NAME = SPP-DEF.dbf

SPPCODE	SPECIES

WILDLIFE

SPPCODE	SPECIES
ACGE	NORTHERN GOSHAWK
AISP	WOOD DUCK
ALAL	MOOSE
ALGR	CHUKAR
ANAAME	AMERICAN WIDGEON
ANAC	PINTAIL
ANCR	GREEN-WINGED TEAL
ANCY	CINNAMON TEAL
ANDI	BLUE-WINGED TEAL
ANPE	EUROPEAN WIDGEON
ANPL	MALLARD
ANST	GADWALL
ANTAME	PRONGHORN ANTELOPE
ARHE	GREAT BLUE HERON
ATCU	BURROWING OWL
AYAM	REDHEAD
AYCO	RING-NECKED DUCK
AYVA	CANVASBACK
BALO	UPLAND SANDPIPER
BOUM	RUFFED GROUSE
BRBEBE	ATLANTIC BRANT
BRBENI	BLACK BRANT
BRCAFU	VANCOUVER CANADA GOOSE
BRCALE	ALEUTIAN CANADA GOOSE
BRCAMI	CACKLING CANADA GOOSE
BRCAMO	GREAT BASIN CANADA GOOSE (WESTERN)
BRCAOC	WESTERN DUSKY CANADA GOOSE
BRCATA	TAVERNERS CANADA GOOSE
BUAL	BUFFLEHEAD
BUCL	COMMON GOLDENEYE
BUIS	BARROWS GOLDENEYE
BURE	FERRUGINOUS HAWK
BUST	GREEN-BACKED HERON
BUSW	SWAINSONS HAWK
CAAL	GREAT EGRET
CASCAN	BEAVER
CALCAL	VALLEY QUAIL (CALIFORNIA)
CALU	GRAY WOLF
CASQ	SCALED QUAIL
CEELNE	ROCKY MOUNTAIN ELK
CEELRO	ROOSEVELT ELK
CEUR	SAGE GROUSE
CHAL	SNOWY PLOVER
CHCA	LESSER SNOW GOOSE
CICO	COLUMBIA RIVER TIGER BEETLE
CLHY	OLDSQUAW
CLMA	WESTERN POND TURTLE

COAM	YELLOW-BILLED CUCKOO
COFA	BAND-TAILED PIGEON
COVI	BOBWHITE QUAIL
CYBU	TRUMPETER SWAN
CYCO	WHISTLING SWAN (TUNDRA)
DEBI	FULVOUS WHISTLING DUCK
DECA	SPRUCE GROUSE
DEOB	BLUE GROUSE
DRPI	PILEATED WOODPECKER
ELCA	WHITE-TAILED KITE (BLACK SHOULDERED)
ERALST	STREAKED HORNED LARK
FACO	MERLIN
FAME	PRAIRIE FALCON
FAPE	PEREGRINE FALCON
FARU	GYRFALCON
FECO	COUGAR
FINU	GIANT COLUMBIA RIVER LIMPET
FUAM	COOT
FURB	FURBEARERS
GAGA	COMMON SNIPE
GAIM	COMMON LOON
GRCA	SANDHILL CRANE
GUGU	WOLVERINE
HAGR	CHINQUAPIN HAIRSTREAK
HALE	BALD EAGLE
HIHI	HARLEQUIN DUCK
LICO	GIANT COLUMBIA SPIRE SNAIL
LOCU	HOODED MERGANSER
LUCA	RIVER OTTER
LYCA	LYNX
LYRU	BOBCAT
MAAM	MARTEN
MAPE	FISHER
MEGA	TURKEY
MERMER	COMMON MERGANSER
MESE	RED BREASTED MERGANSER
MUER	SHORTTAILED WEASEL
MUFR	LONGTAILED WEASEL
MUVI	MINK
NYNY	BLACK-CROWNED NIGHT HERON
NYSC	SNOWY OWL
ODHECO	BLACKTAIL DEER
ODHEHE	MULE DEER
ODVILE	COLUMBIAN WHITE-TAILED DEER
ODVIOC	WHITE-TAILED DEER
ONZI	MUSKRAT
ORAM	MOUNTAIN GOAT
ORPI	MOUNTAIN QUAIL
OTFL	FLAMMULATED OWL
OVCA	MOUNTAIN SHEEP
OXJA	RUDDY DUCK
PAHA	OSPREY
PEER	WHITE PELICAN

PEOC	BROWN PELICAN
PEPE	HUNGARIAN PARTRIDGE
PHCO	RING-NECKED PHEASANT
PLLA	LARCH MOUNTAIN SALAMANDER
PLTO	TOWNSENDS BIG-EARED BAT
POMA	MARDON SKIPPER
RATA	WOODLAND CARIBOU
SCGR	WESTERN GRAY SQUIRREL
SPZE	OREGON SILVERSPOT BUTTERFLY
STNE	GREAT GRAY OWL
STOC	SPOTTED OWL
STVA	BARRED OWL
SYFL	EASTERN COTTONTAIL
SYID	PYGMY RABBIT
SYNU	NUTTALLS COTTONTAIL
T&E&S	THREATENED, ENDANGERED OR SENSATIVE
TATA	BADGER
THMACO	WESTERN POCKET GOPHER (T.M. COUCHI)
THMAGL	WESTERN POCKET GOPHER (T.M. GLACIALIS)
THMALO	WESTERN POCKET GOPHER (T. M. LOUIEI)
THMATU	WESTERN POCKET GOPHER (T.M. TUMULI)
THTA	NORTHERN POCKET GOPHER
TYAL	COMMON BARN OWL
TYPH	SHARP-TAILED GROUSE
URAM	BLACK BEAR
URAR	GRIZZLY BEAR
VUVUCA	CASCADE RED FOX
VUVUFU	LOWLAND RED FOX
WATE	WATERFOWL
ZEMA	MOURNING DOVE

RESIDENT FISH

BB	BROWN BULLHEAD
BC	BLACK CRAPPIE
BT	BROWN TROUT
BUR	BURBOT, LING
C	CRAPPIE (BOTH SPECIES)
CC	CHANNEL CATFISH
CP	CARP
CT	CUTTHROAT TROUT (RESIDENT)
DV	DOLLY VARDEN
EB	EASTERN BROOK TROUT
K	KOKANEE
LMB	LARGEMOUTH BASS
LT	LAKE TROUT (CHAR)
OM	OLYMPIC MUDMINNOW
RB	RAINBOW TROUT (RESIDENT)
SMB	SMALLMOUTH BASS
SR	CUTTHROAT TROUT (SEA-RUN)
WAL	WALLEYE
WF	MOUNTAIN WHITEFISH
YP	YELLOW PERCH

<u>FILE NAME = HAB-DEF.dbf</u>

<u>HABCODE</u>	<u>HABITAT</u>
1	Excellent/extensive deer winter range
2	Excellent/extensive elk winter range
3	Mt. goat winter range
4	Big Horn sheep winter range
5	Big Horn Sheep range
6	Big game migration corridor
7	Fawning area
8	Calving area
9	SOMA (Spotted Owl Management Area - established or potential)
10	Old growth
11	Wintering bald eagle habitat/anadr. fish run
12	Raptor nesting
13	Peregrine falcon wintering
14	Potential peregrine falcon nesting habitat
15	Excellent riparian habitat
16	Mt. goat habitat
17	Cougar habitat
18	Turkey habitat
19	Grizzly habitat
20	Moose habitat
21	Snowy owl wintering
22	Caribou habitat
23	Excellent furbearer habitat
24	Critical waterfowl wintering
25	Waterfowl Nesting/brooding
26	Goose nesting/brooding
27	Swan wintering
28	Estuary/delta/intertidal
29	G.B. Heron rookery/habitat
30	Critical upland bird habitat (wintering, nesting)
31	Larch Mt. salamander habitat
32	Western pond turtle habitat
33	Mitigation property
34	Habitat Management Area (HMA)
51	Moderate quality/amount deer winter range
52	Moderate quality/amount elk winter range
53	Big game summer range
54	Resident deer/elk habitat
55	Bald eagle migration corridor
56	Good riparian habitat
57	Alder/oak/hardwood bottoms
58	Beaver Ponds
59	Oxbows
60	Upland bird habitat
61	Moderate quality waterfowl wintering area
62	Second growth
71	Limited winter range
72	Residential area

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73          Orchards/fencing
74          Agricultural use
75          Logging
76          Limited riparian habitat
81          Extensively logged
82          Mining with associated tailings
83          Dikes, dredged
84          Channelized
85          Riprapped
86          Heavy agricultural use
87          Heavy residential use
88          Industrial use
99          not entered correctly
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FILE NAME = MAP-DEF.dbf

MAPNAME	MAP-NO
ROCHE HARBOR	1
BELLINGHAM	2
MOUNT BAKER	3
ROBINSON MOUNTAIN	4
OROVILLE	5
REPUBLIC	6
COLVILLE	7
CAPE FLATTERY	8
PORT ANGELES	9
PORT TOWNSEND	10
SAUK RIVER	11
TWISP	12
OMAK	13
NESPELEM	14
CHEWELAH	15
FORKS	16
MOUNT OLYMPUS	17
SEATTLE	18
SKYKOMISH RIVER	19
CHELAN	20
BANKS LAKE	21
COULEE DAM	22
SPOKANE	23
COPALIS BEACH	24
SHELTON	25
TACOMA	26
SNOQUALMIE PASS	27
WENATCHEE	28
MOSE LAKE	29
RITZVILLE	30
ROSALIA	31
WESTPORT	32

73	Orchards/fencing
74	Agricultural use
75	Logging
76	Limited riparian habitat
81	Extensively logged
82	Mining with associated tailings
83	Dikes, dredged
84	Channelized
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86	Heavy agricultural use
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SHELTON	25
TACOMA	26
SNOQUALMIE PASS	27
WENATCHEE	28
MOSE LAKE	29
RITZVILLE	30
ROSALIA	31
WESTPORT	32

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CHEHALIS-RIVER      33
CENTRALIA           34
MOUNT RAINIER       35
YAKIMA              36
PRIEST RAPIDS       37
CONNELL             38
PULLMAN             39
ILWACO              40
ASTORIA             41
MT ST HELENS        42
MOUNT ADAMS         43
TOPPENISH           44
RICHLAND            45
WALLA WALLA         46
CLARKSTON           47
VANCOUVER           48
HOOD RIVER          49
GOLDENDALE          50
HERMISTON           51
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FILE NAME = BASIN-DEF.dbf

BASINNAME	BASIN-NO
COEUR-D'ALENE	6
COWLITZ	7
CRAB	8
ENTIAT	10
GRANDE-RONDE	12
GRAYS	13
KALAMA	19
KLICKITAT	21
LAKE-CHELAN	23
LEWIS	24
METHOW	33
OKANOGAN-SIMILKAMEEN	42
PALOUSE	45
PEND-OREILLE	47
PUGET-SOUND	49
SPOKANE	55
TUCANNON	56
UPPER-COLUMBIA	59
WALLA-WALLA	65
WASHINGTON-COAST	66
WASHOUGAL	67
WENATCHEE	69
WIND	72
YAKIMA	73
WHITE-SALMON	76

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ELOCHOMAN                77
COL-R-FR-BON-TO-SNAK     78
COL-R-FR-SNK-TO-CHJO     79
SNK-R-FR-MOU-TO-HELL     80
COL-R-BELOW-BON          81
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FILE NAME = CNTY-DEF.dbf

COUNTY	FIPS-CODE
ADAMS	1
ASOTIN	3
BENTON	5
CHELAN	7
CLALLAM	9
CLARK	11
COLUMBIA	13
COWLITZ	15
DOUGLAS	17
FERRY	19
FRANKLIN	21
GARFIELD	23
GRANT	25
GRAYS HARBOR	27
ISLAND	29
JEFFERSON	31
KING	33
KITSAP	35
KITTITAS	37
KLICKITAT	39
LEWIS	41
LINCOLN	43
MASON	45
OKANOGAN	47
PACIFIC	49
PEND OREILLE	51
PIERCE	53
SAN JUAN	55
SKAGIT	57
SKAMANIA	59
SNOHOMISH	61
SPOKANE	63
STEVENS	65
THURSTON	67
WAHKIAKUM	69
WALLA WALLA	71
WHATCOM	73
WHITMAN	74
YAKIMA	77