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(g) Field Engineers are delegated responsibility for maintaining the Nebraska Inventory of Dams. Each Field Engineer shall update the inventory within 60 days of the completion of dams meeting the criteria for inclusion in the inventory (NRCS inventory dams).

(h) The inventory is maintained in a Microsoft Access database on the shared network drive. Copy the appropriate link below and paste in the address line of your browser to have access to the database and instructions.

Instructions and data base:

\\NelincoIn2c001\shared\Service_Center\NRCS\State_Office\Dams_Inventory\NID_Database_Instructions.pdf

Data base:

\\NelincoIn2c001\shared\Service_Center\NRCS\State_Office\Dams_Inventory\NENRCSNID.mdb

(i) Each Field Engineer is granted access to this drive for the purpose of updating the inventory. The database will be updated by using the “Entry and Editing Form for NRCS Inventory of Dams” which is accessed with the “Entry and Edit Form” tab in the database main menu.

(j) Instructions for updating the inventory are shown in Attachment A. A data dictionary for each field is shown in Attachment B.

(k) The Design Staff shall archive this database at the end of each quarter on CD (or other portable, permanent format). This CD shall be stored in the Dam Inventory File.

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ATTACHMENT A

Instructions for Nebraska NRCS National Inventory of Dams Database

The Microsoft Access database for the NRCS National Inventory of Dams is on the "S:" drive (Shared on 'Nelincoln2c001').

The complete path is:

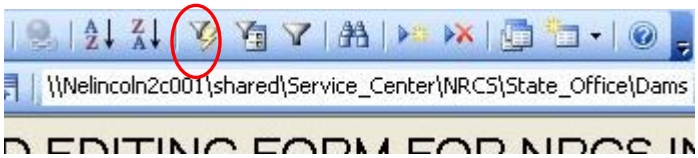
\\Nelincoln2c001\shared\Service_Center\NRCS\State_Office\Dams_Inventory\NENRCSNID.mdb.

To open, click on the above link or navigate the path and double click on the NENRCSNID.mdb database. Upon opening the database, click on the "Forms" tab in the "Objects" column of the Database Window and double click on the "Entry Form". This will bring up the "Entry and Editing Form for NRCS Inventory of Dams".

Each individual dam site will occupy one record in the table of the NENRCSNID04.mdb database. A record is essentially one row of the database table and is divided into fields; each field containing one distinct data element such as dam name, or dam type, etc. There are 77 fields, or data elements, for each individual dam site record. 76 of these are described in the Data Dictionary and are forwarded to NHQ. Not all the fields may contain data for each dam site, but as much information as possible should be entered. Some fields may not be required for a particular dam site, such as an Emergency Action Plan for a Low Hazard Class "L" structure.

There is an unnumbered field that is not included in the Data Dictionary, but included for use in Nebraska. This is the "NRD" entry field located just below entry field (9) "COUNTY". This field allows us to sort the records by NRD for your use.

For a new record for a new structure, click on the "arrow-asterisk" button at the lower left corner of the entry form shown above. This will clear all entry fields and add a new record to the database. To go to a previous record (old structure), you can use the arrow buttons at the bottom left of the screen or use the mouse wheel to scroll through records until the desired record appears, either in the "Dam Name" window (Field (1)), or the "NID ID" window (Field (5)). To limit the number of dams to sort through, place the cursor in a common field, such as NRD, County, or Watershed Name, with the desired value showing in that field; then press the "Filter by Selection" button from the tool bar, as shown below.



The entry windows and buttons are numbered in the order they appear in the Data Dictionary, which should be referred to as necessary. The windows and buttons have explanatory labels providing tips for most questions regarding entries. Pay special attention to field (5), the NID number (if known), which must have the form NE#####, a 7 place alphanumeric entry. This number is assigned by the State. It may not be known initially and may require follow-up entry. Use your best judgment along with the Data Dictionary when making entries; some windows will be left blank. Some entries have drop-down menus or radio buttons that define entries; no direct entry is made in the primary data field. Also, some fields have default entries that represent typical NRCS values; these won't change when you start a new record unless you override the default value. See previous records (old structures) for guidance and examples.

Several fields may require occasional update from time to time, particularly those located on the Dam Safety. The fields (32) Current Hazard Potential and (63) Hazard Potential Classification Year should be updated whenever there is a review that results in a verification or change in status. The field (34) Last Inspection Date should be updated when either the Sponsor or NRCS conducts an inspection. The field (64) Year of EAP Review should be updated for dams with an Emergency Action Plan that is reviewed or revised.

Data is saved to the database almost immediately. Care should be taken to assure that the data in a field is correct (or not get inadvertently changed) before exiting that field or moving to a different record.

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ATTACHMENT B

DATA DICTIONARY
NATURAL RESOURCES CONSERVATION SERVICE
INVENTORY OF DAMS (NRCSID)

The data base field information is given as follows:

(No.) official field name (field name used in database) (units, where applicable) (field type, field size) -- field description and/or entry options.

The first series of fields (#1 - #44) comprise the National Inventory of Dams (NID) data fields that are standardized by the U. S. Army Corps of Engineers (USACE) and are reported by all National Inventory of Dams participating agencies.

(1) DAM NAME (DAM_NAME) (alphanumeric, 65 var) -- Enter the official name of the dam. Do not abbreviate unless part of the official name. For dams that do not have an official name, use the popular name of dam. Do not insert meaningless information such as “Nona me” or “Unknown” which only serve to increase the size of the file.

(2) OTHER DAM NAMES (OTHER_NAMES) (alphanumeric, 65 var) -- If there are names other than the official name (i.e., reservoir name) of the dam in common use, enter the names in this space. Separate names using a semi-colon. Leave blank if none.

(3) DAM FORMER NAMES (FORMER_NAMES) (alphanumeric, 65 var) -- Enter any previous reservoir or dam name(s), if changed. Separate the names using a semi-colon. Leave blank if none.

(4) STATE OR FEDERAL AGENCY ID (FED_ID) (alphanumeric, 15 var) -- Enter the Official State or Agency identification number for the dam. The first two characters contain the State code. Characters 3 through 10 are assigned by the NRCS State office and must uniquely identify that dam within the State. This field was initially used in the 1983-1984 version of the SCS main frame inventory as the unique identifier. This need for a unique identifier has been replaced by the NID ID (Field #5) which has been assigned to every dam in the National Inventory of Dams (NID). This field may also be the same as Field #5 or left blank.

(5) NID ID (NID_ID) (alphanumeric, 7 var) -- Enter the official NID identification number for the dam. This is a required field and must have an entry to be included in the National Inventory of Dams. This field is used as the unique identifier for each dam in the Nation. This identifier is used to link the NID and NRCS databases with other databases for queries about NRCS dams. It is the same as the Corps of Engineers’ Identification Number assigned in the original 1981 USACE National Inventory of Dams. Once assigned, this NID ID will never be reused. If a dam is removed or decommissioned, the NID ID number for that dam is retired.

The first two characters are the appropriate two-letter State abbreviation based on the location of the dam. The last five characters will be a unique number for that State. Ranges of numbers have been assigned to each Agency participating in the National Inventory of Dams effort so that assigning Agency can be determined.

For the NRCS compiled inventory, this number likely has already been assigned by the State Dam Safety Agency or another Federal Agency, and NRCS should obtain the NID ID from their State Dam Safety Agency. Only in very rare cases, such as non-participating States, will NRCS need to assign a NID ID. In this situation, please contact NRCS NHQ for the range of assigned numbers.

(6) LONGITUDE (LONG_DEG) (number, 12 var) -- Longitude at the dam centerline as a single value in decimal degrees to four significant digits (Degrees + Minutes/60 + Seconds/3600). NOTE: Longitude in the US is always a minus number. This is the X-coordinate for geocoding. We need to give them the accuracy we want. For Example: -36.1252.

(7) LATITUDE (LAT_DEG) (number, 12 var) -- Latitude at the dam centerline as a single value in decimal degrees to four significant digits (Degrees + Minutes/60 + Seconds/3600). This is the Y-coordinate for geocoding. We need to give them the accuracy that we want. For Example: 24.2148.

(8) SECTION, TOWNSHIP, RANGE LOCATION (GEODETIC_LOC) (alphanumeric, 30 var) -- This is an optional field. States that track Section, Township and Range are requested to enter any information that is understandable and that clearly designates the individual values. For example, S.21, T.3N, R.69W. If the meridian location is needed to locate the dam, include it in the field. For example, S21 T3N R68W of 6PM (Sixth Principal Meridian).

(9) COUNTY (COUNTY) (alphanumeric, 30 var) -- Name of county (or parish) where dam is located.

(10) RIVER OR STREAM (STREAM) (alphanumeric, 30 var) -- Name of river or stream on which dam is built. If the stream is unnamed, identify it as a tributary to a named river, e.g., TR-Snake. If the dam is located offstream, enter the name of the river or stream and identify as offstream, e.g., Snake-OS.

(11) NEAREST CITY/TOWN (NEAREST_TOWN) (alphanumeric, 30 var) -- Name of nearest downstream city, town, or village that is most likely to be affected by floods resulting from failure of the dam.

(12) DISTANCE TO NEAREST CITY/TOWN (DIST_TOWN) (miles) (number, 3 var) -- Distance to nearest downstream city, town, or village, to the nearest mile, and tenth if appropriate.

(13) OWNER NAME (OWNER_NAME) (alphanumeric, 50 var) -- Name of legal owner of dam.

(14) OWNER TYPE (OWNER_TYPE) (alphanumeric, 1) -- Use the following codes to indicate the type of owner:

F for Federal	U for Public Utility	S for State
P for Private owner	L for Local Government	

Typically for NRCS, this Field would be L if Field #53 = WS, PT, RC, or FP.

(15) DAM DESIGNER (DAM_DSGNR) (alphanumeric, 65 var) -- Enter the name of the principal firm(s) or agency accomplishing design of the dam, major appurtenances operating features, and major modifications. List original designer, then modification designers, if applicable. Separate the names using a semi-colon. Typically for NRCS if the design was prepared by an A&E and NRCS approved the plans, this Field would show the name of the A&E firm, and Field #46 would show NRCS involvement. If the design was prepared by NRCS in-house, this field would show USDA-NRCS.

(16) NON_FEDERAL DAM ON FEDERAL PROPERTY (NFDFP) (alphanumeric, 1) -- Indication whether the dam is a non-Federal dam on Federal property, such as in National Forests.

Y for Yes N for No

(17) DAM TYPE (DAM_TYPE) (alphanumeric, 6 var) -- Codes to indicate the type of dam. List in order of importance. Codes are concatenated if the dam is a combination of several types. For example, an entry of CNCB would indicate a concrete buttress dam type.

RE for Earth	VA for Arch	ER for Rockfill	MV for Multi-Arch
ST for Stone	PG for Gravity	CN for Concrete	TC for Timber Crib
CB for Buttress	MS for Masonry	OT for Other	

(18) CORE (CORE) (alphanumeric, 3) -- Enter code to indicate position, type of watertight member, and certainty. Typically for NRCS, most dams would be HEK.

Position:
F for upstream facing
H for homogenous dam
I for core
X for unlisted/unknown

Type:
A for bituminous concrete
C for concrete
E for earth
M for metal
P for plastic
X for unlisted/unknown

Certainty:
K for known
Z for estimated

(19) FOUNDATION (FNDN) (alphanumeric, 3) -- Code for the material upon which dam is founded followed by the certainty; do not separate with a comma.

Material: R for rock
RS for rock and soil
S for soil
U for unlisted/unknown

Certainty: K for known
Z for estimated

(20) PURPOSES (PURPOSES) (alphanumeric, 8 var) -- Codes to indicate the purposes for which the reservoir is used: Can use up to four purposes; list in order of importance. Codes are concatenated when multiple codes are used, e.g., ICF for irrigation, flood control, and fish and wildlife.

I for Irrigation	N for Navigation	S for Water Supply
R for Recreation	H for Hydroelectric	F for Fish and Wildlife Pond
T for Tailings	D for Debris Control	O for Other

C for Flood Control and Storm Water Management
P for Fire Protection, Stock, or Small Farm Pond

(21) YEAR COMPLETED (YR_COMP) (alphanumeric, 5 var) -- Year in which original main dam structure was completed. The NID allows addition of an "E" to indicate an estimated date. Use four digits, for example: 2002. Entry date is not to be changed when modifications or rehabilitations are done; use Field #22 below.

(22) YEAR MODIFIED (YR_MOD) (alphanumeric, 60 var) -- Year of major modification or rehabilitation of dam or major control structure is completed. Use four digits, for example: 2002. Major changes are defined as structural, foundation, or mechanical construction activity which significantly restores the project to original condition; changes the project's operation, capacity or structural characteristics (e.g., spillway or seismic modification); or increases the longevity, stability, or safety of the dam. Use the codes to indicate the type of modification; up to ten may be entered, separated by semi-colons.

S for structural	F for foundation	M for mechanical
E for seismic	H for hydraulic	O for other

(23) DAM LENGTH (DAM_LEN) (feet) (number, 7 var) -- Length of dam defined as length along top of dam. Also includes spillway, power plant, navigation lock, fish pass, etc., where these form part of the length of the dam. If detached from the dam, these structures should not be included.

(24) DAM HEIGHT (DAM_HT) (feet) (number, 6 var) -- Height of the dam to nearest foot, defined as the vertical distance between the lowest point along the crest of the dam and the lowest point at the downstream toe which usually occurs in the natural bed of the stream or water course.

(25) STRUCTURAL HEIGHT (STR_HT) (feet) (number, 6 var) -- Height of the dam to the nearest foot, defined as the vertical distance from the lowest point of the excavated foundation to the top of the dam.

(26) HYDRAULIC HEIGHT (HYDR_HT) (feet) (number, 6 var) -- Height of the dam to the nearest foot, defined as the vertical distance between the maximum design water level (freeboard design flood) and the lowest point at the downstream toe. Typically for NRCS, this is the same as Field #24.

(27) MAXIMUM DISCHARGE (MAX_DISC) (cfs) (number, 7 var) -- The discharge in cubic feet per second (cfs) that the spillway will discharge when the pool is at the maximum designed water surface elevation.

(28) MAXIMUM STORAGE (MAX_STOR) (acre-feet) (number, 10 var) – The total storage space in a reservoir below the maximum attainable water surface elevation. Typically for NRCS, this is the sum of #64, #65, #66, and #67.

(29) NORMAL STORAGE (NORM_STOR) (acre-feet) (number, 10 var) – The total storage space in a reservoir below the normal retention level, excluding any flood or surcharge storage. Typically for NRCS, this is the sum of #65 and #68.

(30) SURFACE AREA (SURF_A) (acres) (number, 8 var) -- Surface area of the impoundment at normal pool level to the crest of the lowest ungated outlet.

(31) DRAINAGE AREA (DA) (square miles) (number, 10 var) -- Drainage area to the nearest hundredth, which is defined as the area that drains to the dam.

(32) DOWNSTREAM HAZARD POTENTIAL (CUR_HAZ) (alphanumeric, 1) -- Code to indicate the most current potential hazard classification as defined in the NEM. Use L for NRCS Class a, S for NRCS Class b, and H for NRCS Class c. Use best and latest available information. Qualify how current the data is in Field #63. Do not use any other Codes since this Field is a critical filter for inclusion in the NID.

L for low S for significant H for high

(33) EMERGENCY ACTION PLAN (EAP) (alphanumeric, 2) -- Code indicating whether or not the dam has an Emergency Action Plan developed by the dam owner.

Y for Yes N for No

NR for Not Required by submitting agency.

Typically for NRCS, if Field #32 is L or S, this Field is NR.

(34) INSPECTION DATE (LAST_INSP_D) (date, 10 var) -- Date of the most recent inspection of the dam prior to submission of data. Typically for NRCS, this means formal inspection led by a qualified engineer (can be NRCS or non-NRCS) as defined in NRCS National Operation & Maintenance Manual (NO&MM). The date should be entered as mm/dd/yyyy (06/30/1982).

(35) INSPECTION FREQUENCY (INSP_FREQ) (number, 1) -- Scheduled frequency interval for periodic inspections in years. Typically for NRCS, this is the frequency of formal inspections required by the State dam regulatory authority.

(36) STATE REGULATED DAM (STATE_REG) (alphanumeric, 1) -- Code to indicate whether the dam is considered "State Regulated" by the National Dam Safety Program Act. A "State Regulated Dam" is defined in the Act as a dam for which the State executes one or more of the following general responsibilities: (a) Inspection; (b) Enforcement; (c) Permitting.

Y for Yes N for No

(37) STATE REGULATORY AGENCY (STATE_REG_AGENCY) (alphanumeric, 30 var) -- Name of the primary state agency with regulatory or approval authority over the dam. Use the same abbreviation or acronym as used in the NID.

(38) SPILLWAY TYPE (SPWY_TYPE) (alphanumeric, 1) -- Letter code that describes the type of spillway. This is oriented towards very large dams containing gated overflow spillways.

C for Controlled U for Uncontrolled N for None

Typically for NRCS if Field #20 includes I, leave this field blank. If Field #70 is NO, use N for this field. If Field #70 is not NO, use U for this field.

(39) SPILLWAY WIDTH (SPWY_W) (feet) (number, 4) -- The width to the nearest foot of the spillway that is available for discharge when the reservoir is at its maximum designed water surface elevation. Typically for NRCS, this is the bottom width on an open channel spillway.

(40) OUTLET GATES (OUT_GATES) (alphanumeric, 15 var) -- Use one or more of the following codes to describe the type of spillway and controlled outlet gates, if any.

Use up to five types in decreasing size order, separated by semi-colons, followed by number of gates. Typically for NRCS, if Field #38 is U, this field is U. If Field #38 is N, this field is X.

X for none	U for uncontrolled	T for tainter (radial)
L for vertical lift	R for roller	B for bascule
D for drum	N for needle	F for flap
S for slide	V for valve	O for other controlled

(41) VOLUME OF DAM (VOL_DAM) (cubic yards) (number, 10 var) -- Total number of cubic yards of materials used in the dam structure. Include portions of the powerhouse, locks, and spillways only if they are an integral part of the dam and are required for structural stability.

(42) NUMBER OF LOCKS (N_LOCKS) (number, 1) -- Number of existing navigation locks for the project. Typically for NRCS, this is 0.

(43) LENGTH OF LOCKS (L_LOCKS) (feet) (number, 4 var) -- Length of primary navigation lock to the nearest foot. Typically for NRCS, this field is blank.

(44) LOCK WIDTH (LOC_W) (feet) (number, 3 var) -- Width of the primary navigation lock to the nearest foot. Typically for NRCS, this field is blank.

The following eight fields (#45 - #52) comprise additional data fields that are only provided by participating Federal Agencies submitting data to the NID. Typically NRCS should enter data for only NRCS or other USDA Agencies involved with NRCS assisted dams. Use the following codes as applicable for each field:

USDA NRCS (Natural Resources Conservation Service, formerly SCS)
USDA FS (Forest Service)
USDA RHS (Rural Housing Service, formerly part of FmHA)
USDA RUS (Rural Utilities Service, formerly part of FmHA or REA)
USDA FSA (Farm Services Agency, formerly ASCS)
USDA ARS (Agricultural Research Service)

(45) FEDERAL AGENCY INVOLVEMENT IN FUNDING (FED_FUND) (alphanumeric, 20 var) -- Federal Agency involved in funding of the dam. Codes are concatenated if several agencies were involved. Typically for NRCS, this should be USDA NRCS if Field #53 = WS, PT, RC, FP.

(46) FEDERAL AGENCY INVOLVEMENT IN DESIGN (FED_DESIGN) (alphanumeric, 20 var) -- Federal Agency involved in the design of the dam. Codes are concatenated if several agencies were involved.

(47) FEDERAL AGENCY INVOLVEMENT IN CONSTRUCTION (FED_CONST) (alphanumeric, 20 var) -- Federal Agency involved in construction of the dam. Codes are concatenated if several agencies were involved.

(48) FEDERAL AGENCY INVOLVEMENT IN REGULATORY (FED_REG) (Alphanumeric, 20 var) -- Federal Agency involved in regulating the dam. Codes are concatenated if several agencies are involved. Typically for NRCS, this field should be blank.

(49) FEDERAL AGENCY INVOLVEMENT IN INSPECTION (alphanumeric, 20 var) (FED_INSP) -- Federal Agency involved in inspecting the dam. Codes are concatenated if several agencies are involved. Typically for NRCS, this field should be blank. USDA NRCS involvement means formal inspection by an NRCS engineer as defined in NRCS National Operation & Maintenance Manual (NO&MM).

(50) FEDERAL AGENCY INVOLVEMENT IN OPERATION (FED_OP) (alphanumeric, 20 var) -- Federal Agency involved in operating the dam. Codes are concatenated if several agencies were involved. Typically for NRCS, this field should be blank.

(51) FEDERAL AGENCY OWNER (FED_OWN) (alphanumeric, 20 var) -- Federal Agency which partly or wholly owns the dam. Codes are concatenated if several agencies were involved. Typically for NRCS, this field should be blank.

(52) FEDERAL AGENCY INVOLVEMENT -- OTHER (FED_OTHER) (alphanumeric, 20 var) -- Federal Agency involved in other aspects of the dam. Codes are concatenated if several agencies were involved. Typically for NRCS, this field should be blank.

The following sixteen fields (#53 - #76) comprise additional data fields that should be provided for NRCS assisted dams.

(53) PROGRAM AUTHORIZATION (AUTH) (alphanumeric, var 2) -- Code for authorization.

CO for CO-01	GP for GPCP	OT for Other
WS for PL-566	RC for RC&D	PT for PILOT
FP for WF-03		

Dams authorized under WS, PT, RC, or FP are considered as “project” dams.

(54) WATERSHED NUMBER (WSHED_NO) (number, 4) -- Contains the 4-digit watershed number for PL-566 dams. Typically the range is 2001 to 2800 for dams included in watershed plans developed within the state or 2801 to 2999 for dams included in plans developed by an adjoining state.

(55) WATERSHED NAME (WSHED_NAME) (alphanumeric, var 40) -- Name of watershed project for PL-566 dams.

(56) PLANNED SERVICE LIFE (SERV_LIFE) (alphanumeric, 3 var) -- Number of years used to amortize the benefits of a project dam and/or determine the volume of sediment storage provided in the sediment pool.

(57) O&M INSPECTION RESPONSIBILITY (O&M_INSP_RES) (alphanumeric, 5 var) -- Code to indicate the party assigned operation and maintenance inspection responsibility by an O&M Agreement or supplemental legal document for a project dam. Leave blank for non-project dams.

OWNER for owner in Field #13	NRCS for NRCS
JOINT for OWNER & NRCS	OTHER for other party
NONE for no existing or non-enforceable O&M Agreement	

(58) O&M INSPECTION CURRENT (O&M_IN_CURR) (alphanumeric, 1) -- Code to indicate if an O&M Inspection and written report were completed on a project dam during the current or past calendar year by the responsible party in Field #57. Leave blank for non-project dams.

Y for Yes N for No

(59) O&M COMPLETED (O&M_COMP) (alphanumeric, 1) -- Code to indicate if O&M needs reported in prior O&M Inspection Report(s) for project dams have been completed. Leave blank for non-project dams.

Y for Yes N for No

(60) POPULATION AT RISK (POP_RISK) (number, 5 var) -- All those persons that would be exposed to flood waters if they took no action to evacuate. It should be the maximum combination of people reasonably expected in the dam breach inundation zone simultaneously at any time of the day or night including permanent residents, seasonal transients (campers, recreationists, etc), and daily transients (workers, students, shoppers, commuters, etc). Accuracy of the data should be qualified by Field #61.

(61) POPULATION AT RISK ACCURACY (POP_ACC) (alphanumeric, 1) -- Code indicating if the Population at Risk number in Field #60 is based on a visual estimate or breach inundation map analysis.

E for Estimated visually
A for Analyzed with breach inundation map

(62) HAZARD CLASSIFICATION AS DESIGNED OR MODIFIED (DSGN_HAZ) (alphanumeric, 1) -- Code to indicate the potential hazard to the downstream area at the time the dam was built or modified. Use L for NRCS Class a, S for NRCS Class b, and H for NRCS Class c. If an existing dam was modified to reflect a change in classification, enter the most recent classification for which the dam was designed and modified. Leave blank for unknown.

L for low S for significant H for high

(63) HAZARD POTENTIAL CLASSIFICATION YEAR (HAZ_CLASS_YEAR) (number, 4) -- Year of most recent verification of Hazard Potential Classification in Field #32 by qualified NRCS personnel. Use four digits for the year (Example: 2002).

(64) EAP YEAR (EAP_YEAR) (number, 4) -- Year of most recent review and verification of existing or implementation of new Emergency Action Plan in Field #33. Use four digits for the year, for example: 2002.

(65) SEDIMENT STORAGE (SED_STOR) (acre-feet) (number, 10 var) -- The planned sediment storage capacity of the reservoir as designed.

(66) FLOOD STORAGE (FLD_STOR) (acre-feet) (number, 10 var) -- The flood storage capacity of the reservoir. Typically, this is the capacity of the reservoir between the elevation of the permanent pool and the crest of the auxiliary (emergency) spillway.

(67) SURCHARGE STORAGE (SUR_STOR) (acre-feet) (number, 10 var) -- The surcharge capacity of the reservoir. Typically, this is the capacity of the reservoir between the elevations of the auxiliary (emergency) spillway crest and the top of dam.

(68) OTHER STORAGE (OTH_STOR) (acre-feet) (number, 10 var) -- The other beneficial capacity of the reservoir.

(69) PRINCIPAL SPILLWAY TYPE (PS_TYPE) (alphanumeric, 2) -- Code identifying the type of principal spillway as follows:

CP for Concrete Pipe	CM for Corrugated Metal	PL for Plastic
WS for Welded Steel	CB for Concrete Box	OT for Other
OC for Open Pipe	NO for None	

(70) PRIMARY AUXILIARY SPILLWAY TYPE (AS1_TYPE) (alphanumeric, 2) -- Code identifying the spillway type of the first auxiliary (emergency) spillway.

VE for Vegetated	RK for Rock	ST for Structural
EA for Earth	OT for Other	NO for None
HR for Hard Rock	SR for Soft Rock	

(71) SECONDARY AUXILIARY SPILLWAY TYPE (AS2_TYPE) (alphanumeric, 2) -- Code identifying the spillway type of the second auxiliary (emergency) spillway. Use the codes under Field #70 above.

(72) TERTIARY AUXILIARY SPILLWAY TYPE (AS3_TYPE) (alphanumeric, 2) -- Code identifying the spillway type of the third auxiliary (emergency) spillway. Use the codes under Field #70 above.

(73) CONDUIT HEIGHT (COND_HT) (feet) (number, 4 var) -- Height for rectangular or diameter for round conduit for the largest conduit through the dam to nearest tenth of a foot.

(74) CONDUIT WIDTH (COND_W) (feet) (number, 4 var) -- Width (size) of the largest conduit through the dam to the nearest tenth of a foot. Leave blank if conduit is round.

(75) NUMBER OF CONDUITS (NO_COND) (number, 2 var) -- Number of conduits through dam.

(76) COOL WATER RELEASE (COOL_WATER) (alphanumeric, 1) -- Code indicating if a cold water release exists.

Y for Yes N for No

ENTRY AND EDITING FORM FOR NRCS INVENTORY OF DAMS

Notes | Known Problems | General Info. | Geographic Info. | Purpose | Agency Involvement | Structure | Embankment Materials | Pond | Spillways | Project Work | Modifications | Dam Safety

(1) Dam Name

(2) Other Names

Names other than the official name of the dam in common use. Seperate multiple names with semi-colons. Leave blank if none.

(3) Former Names

Previous reservoir or dam name(s), if changed. Seperate multiple names with semi-colons. Leave blank if none.

(5) NID ID

This number assigned by DNR. You will have to contact DNR to obtain this number.

(13) Owner Name

(14) Owner Type

(15) Dam Designer USDA NRCS

If the dam was designed by NRCS, enter USDA NRCS in the field. If the dam was modified, also list the modification designers (separate the names using a semi-colon).

(53) Program Authorization

(21) Year Completed

The four digit year the main dam structure was completed. Place an "E" after the year if it is estimated. This date is not to be changed when modifications or rehabilitations are done.

Notes | Known Problems | General Info. | Geographic Info. | Purpose | Agency Involvement | Structure | Embankment Materials | Pond | Spillways | Project Work | Modifications | Dam Safety

(30) Surface Area (acres) — Surface Area at normal pool level

(56) Planned Service Life (years) — For Project Work: The number of years used to amortize the benefits of the project.
For Non-Project Work: The number of years storage provided in the sediment pool.

Incremental Storage Values

(65) Sediment Storage (ac-ft)

(68) Other Storage (ac-ft) — Storage between sediment pool elevation and Principal Spillway Elevation

(66) Flood Storage (ac-ft) — Storage between Principal Spillway Elevation and Auxiliary Spillway Crest Elevation

(67) Surcharge Storage (ac-ft) — Storage between Auxiliary Spillway Crest and Top Of Dam Elevation

NOTE: If there is no A.S., the Flood Storage is between the P.S elevation and the Top Of Dam elevation with the Surcharge Storage = 0

Storage Values

(29) Normal Storage (ac.ft.) — Sediment + Other

(28) Maximum Storage (ac.ft.) — Sediment + Other + Flood + Surcharge

Notes | Known Problems | General Info. | Geographic Info. | Purpose | Agency Involvement | Structure | Embankment Materials | Pond | Spillways | Project Work | Modifications | Dam Safety

(7) Latitude _____

(6) Longitude _____

Latitude and Longitude are at the dam centerline.
Use decimal degrees and be as accurate as possible.

(8) Legal Description _____ Example: NW4 S21 T3N R8W

(9) County _____ If structure is on the county line, use the upstream county.

NRD _____

(10) River or Stream _____ If the stream is unnamed, identify it as a tributary to a named river, e.g., TR-Platte

(11) Nearest Downstream City/Town _____

(12) Distance To Nearest Downstream City/Town (miles) _____

Notes | Known Problems | General Info. | Geographic Info. | Purpose | Agency Involvement | Structure | Embankment Materials | Pond | Spillways | Project Work | Modifications | Dam Safety

(20) Structure Purpose(s)

This indicates the purposes for which the reservoir is used. Choose the purposes in order of importance. You can choose up to 4 purposes. Choose "No Other Purposes" in the combo boxes that are not needed if there are less than 4 purposes.

Main Purpose _____

Alternate Purpose 1 _____

Alternate Purpose 2 _____

Alternate Purpose 3 _____

Notes | Known Problems | General Info. | Geographic Info. | Purpose | Agency Involvement | Structure | Embankment Materials | Pond | Spillways | Project Work | Modifications | Dam Safety

(16) Non-Federal Dam on Federal Property ○ Yes ○ No

Federal Agency Involvement in the Structure

Select the USDA agency involved in each of the listed aspects from the combo-box. If a USDA agency was not involved in one or more of the aspects listed, leave that field blank

(45) Federal Agency Involvement In Funding	Was the dam wholly or partially funded by a USDA agency.
(46) Federal Agency Involvement In Design	This includes designs that were performed by others and approved by NRCS.
(47) Federal Agency Involvement In Construction	This includes Construction Inspection by NRCS Personnel.
(48) Federal Agency Involvement In Regulatory	Is the dam regulated by a USDA agency.
(49) Federal Agency Involvement In Inspection	This means formal inspection by an NRCS engineer periodically after construction. In Nebraska, this is typically done by the owner or DNR and not by an NRCS engineer.
(50) Federal Agency Involvement In Operation	Is the dam operated by a USDA agency.
(51) Federal Agency Owner	Is the dam wholly or partially owned by a USDA agency.
(52) Federal Agency Involvement - Other	Is a USDA agency involved in other aspects of the dam.

Notes | Known Problems | General Info. | Geographic Info. | Purpose | Agency Involvement | Structure | Embankment Materials | Pond | Spillways | Project Work | Modifications | Dam Safety

Structure Dimensions And Volume

(41) Volume of Dam (cyd)

(23) Dam Length (ft.)

(24) Dam Height (ft.) Round To Nearest Foot

(25) Structure Height (ft.) Round To Nearest Foot

(26) Hydraulic Height (ft.) Round To Nearest Foot

Dam Height = Vertical distance between the design top (settled top) of the dam and the lowest point at the downstream toe.

Structure Height = Vertical distance between the design top (settled top) of the dam and the lowest point of the excavated channel (Usually the bottom of the core trench or the channel cleanout).

Hydraulic Height = Vertical distance from the maximum design water level (freeboard design flood) and the lowest point at the downstream toe. (In Nebraska this will typically be the same as the Dam Height because non TR-60 dams do not require a freeboard design flood be used to set the top of the dam.)

Notes | Known Problems | General Info. | Geographic Info. | Purpose | Agency Involvement | Structure | Embankment Materials | Pond | Spillways | Project Work | Modifications | Dam Safety

(17) Dam Type

(18) Core Information

Select one option from each column

Core Position
- ○ Upstream Facing
- ◉ Homogenous Dam
- ○ Core
- ○ Unlisted/Unknown

Core Type
- ○ Bituminous Concrete
- ○ Concrete
- ◉ Earth
- ○ Metal
- ○ Plastic
- ○ Unlisted/Unknown

Certainty
- ◉ Known
- ○ Estimated

Typically in Nebraska this is: Homogeneous Dam, Earth, Known.

(19) Foundation Information

Select one option from each column

Foundation Material
- ○ Rock
- ◉ Soil
- ○ Rock and Soil
- ○ Unknown

Certainty
- ◉ Known
- ○ Estimated

Typically in Nebraska this is: Soil, Known.

Notes | Known Problems | General Info. | Geographic Info. | Purpose | Agency Involvement | Structure | Embankment Materials | Pond | Spillways | Project Work | Modifications | Dam Safety

(31) Drainage Area (sq. mi.)

(27) Maximum Discharge (cfs)

This is the combined discharges from the Principal and Auxiliary Spillways when the pool is at maximum designed water surface elevation.

(76) Cool Water Release ○ Yes ○ No

A drawdown device is not a cool water release (unless it is left partially open all of the time).

Principal Spillway Information

(69) Principal Spillway Type

(75) Number of Conduits

(73) Conduit Height (ft.)

Enter the diameter of the conduit here (ft.) if it is round.

(74) Conduit Width (ft.)

Leave this field blank if the conduit is round.

Auxiliary Spillway Information

(70) Primary Auxiliary Spillway Type

(71) Secondary Auxiliary Spillway Type None

(72) Tertiary Auxiliary Spillway Type None

Typically, NRCS dams in Nebraska will have only one Auxiliary Spillway (A Primary A.S.) and "None" should be selected for the Secondary and Tertiary A.S. Types.

(38) Spillway Type Uncontrolled

Typically in Nebraska, this field will be "Uncontrolled" unless there is no A.S., then it would be "None".

(39) Auxiliary Spillway Width (ft.)

This is the sum of the bottom widths of the Auxiliary Spillways. Leave blank if no A.S.

(40) Outlet Gates Uncontrolled

Usually, if the Spillway Type is "Uncontrolled", This field is also "Uncontrolled". If the Spillway Type is "None", This field is "None".

Notes | Known Problems | General Info. | Geographic Info. | Purpose | Agency Involvement | Structure | Embankment Materials | Pond | Spillways | Project Work | Modifications | Dam Safety

This section needs to be completed only if it is a "Project" dam (PL-566, Pilot, RC&D, WF-03)

(54) Watershed Number

(55) Watershed Name

(57) O&M Inspection Responsibility

(58) O&M Inspection Current ○ Yes ○ No

This indicates if an O&M Inspection and written report were completed on the project dam during the current or past calender year.

(59) O&M Completed ○ Yes ○ No

This indicates if O&M needs reported in prior O&M Inspection Report(s) for the project dam have been completed. (Did the O&M get done that prior reports said needed to be done..

Notes | Known Problems | General Info. | Geographic Info. | Purpose | Agency Involvement | Structure | Embankment Materials | Pond | Spillways | Project Work | Modifications | Dam Safety

(22) Modifications To The Structure

☐ Hydraulic ☐ Mechanical

Year ☐ ☐ Structural ☐ Seismic

☐ Foundation ☐ Other

Number of times the dam has been modified. 0

ADD DELETE

To view previous modifications: Select the year from the combo box and the modifications will be displayed in the check boxes.

To add new modifications: Type the four digit year that the dam was modified in the combo box, check the appropriate boxes for modifications, then click the ADD button. Don't forget to update the Dam Designer field under the General Info. tab if need be. Also, be sure to update the information under the Dam Safety tab.

To delete a modification: Select the year from the combo box that you want to delete the entry for and click the DELETE button.

If you made a mistake entering a modification, it cannnot be edited once you have hit the ADD button. Simply delete the incorrect modification and add a new one that is correct.

The box that displays the number of times the dam has been modified cannot be edited. It is only for your information.

Notes | Known Problems | General Info. | Geographic Info. | Purpose | Agency Involvement | Structure | Embankment Materials | Pond | Spillways | Project Work | Modifications | Dam Safety

(62) Hazard Classification As Designed or Modified [ ] Leave blank if unknown.

(34) Last Inspection Date [ ] mm/dd/yyyy - This means a formal inspection led by a qualified engineer (can be NRCS or non-NRCS). If you do not know the day of the month, the 1st will automatically be used.

(35) Scheduled Inspection Frequency (years) [ ] DNR criteria states: Low = 5 yrs, Significant = 2 yrs, High = 1 yr.

(60) Population At Risk [0] All those persons that would be exposed to flood waters if they took no action. Should be the maximum combination of people reasonably expected in the dam breach inundation zone simultaneously at any time of the day or night. Includes seasonal and daily transients

(61) Population At Risk Accuracy
- ○ Estimated Visually
- ○ Analyzed with breach inundation map

(63) Year Of Most Recent Verification Of Hazard Potential Classification [ ] Most recent four digit year that Hazard Classification was verified by qualified NRCS personnel.

(32) Current Hazard Potential [ ] Leave blank if unknown.

(33) Emergency Action Plan ○ Yes ○ No ○ Not Required Typiclly, an EAP is not required unless it is a high hazzard structure.

(64) EAP Year [ ] Year of mosts recent review and verification of or implementation of new Emergency Action Plan (Four digit year)

(36) State Regulated Dam ◉ Yes ○ No This should always be Yes in Nebraska.

(37) State Regulatory Agency [DNR] This will always be DNR in Nebraska.