

Part 520 – Soil and Water Resource Development

Subpart C – Dams

§IA520.21 Definition and Classes.

- F. Additionally, NRCS policy in Iowa for maintaining an inventory of dams includes those which meet the criteria below:
- (4) All dams with an overall height of 35 feet or more.
  - (5) All project detention type structures regardless of size or hazard class.
- I. Inventory size dams will be included in the NRCS inventory if they meet any of the following:
- (1) Dam was built with NRCS technical and/or financial assistance.
  - (2) The dam was built according to NRCS standards and specifications in effect at the time of construction.
  - (3) Alterations to the dam since the time of construction have been made in accordance with NRCS standards and specifications.
- J. All information requested on Form IA-ENG-40 is to be included in the NRCS inventory. A copy of the form may be found at the Iowa website. Instructions for completing the form are included following this section.
- K. Inventory of new dams. As new dams are constructed, the required data is to be added to the NRCS inventory on the basis of design and construction records. The individual approving the design must, to the extent possible, complete form IA-ENG-40. The individual making the final construction check will check form IA-ENG-40, make any needed as-built corrections, and verify that all items are complete. One copy of IA-ENG-40 is to be forwarded to the State Conservation Engineer (SCE) and one copy retained in the case file. The As-Built plans and design report should accompany this form.
- L. Iowa Department of Natural Resources (IDNR) dam inventory. The state office will send inventory information to the IDNR on form IA-ENG-40. The IDNR will assign National Inventory of Dams ID numbers (NID ID). The IDNR is the state agency responsible for assigning these national numbers.
- M. Entry, storage, and retrieval of data.
- (1) Data will be entered in the NID database and maintained at the State Office.

- (2) Inventory data will be retrieved as needed by the State Office and copies of the inventory furnished to respective area and field offices if sensitive data is not included.

N. Keeping the inventory current.

- (1) Data on new inventory type dams, or updated or corrected data, on previously submitted dams can be submitted at any time. Data on all inventory type dams completed during a calendar year must be forwarded to the SCE by January 15 of the following year. This data will then be entered into the dam inventory database.

O. Responsibility.

- (1) The SCE provides overall coordination for the inventory of dams.
- (2) Each ASTC-FO insures the field offices carry out the inventory policy.

**P. INSTRUCTIONS FOR COMPLETING THE NRCS NATIONAL INVENTORY OF DAMS (IA-ENG-40).**

- (1) The following explanations correspond with the item numbers on the Inventory form. Periods and commas are not needed for punctuation.
- (2) Please be sure to complete the bottom line giving the date the form was filled out and the name of the person completing the report.
- (3) The description in parentheses behind the label for the entry field describes the type of data required and the number of columns allotted to this data.

1. DAM NAME (alphanumeric, 65) - Enter the official name of the dam. For dams that do not have an official name, use the popular name of the dam. Do not insert meaningless information such as “Noname” or “Unknown” which only serve to increase the size of the file. If a project dam, enter the watershed project name, measure plan name (for Little Sioux use LS plus the Subwatershed name), and the site number as on the drawings. For others, use the official name or owner’s name, i.e.:

Soap Creek 26-65	(Watershed)	Deer Ridge 1	(RC&D)
LS Dutch Hollow M-4	(Little Sioux)	Ralph Smith	(CO-01)

If “Ralph Smith” has more than one dam, use something in the DAM NAME to uniquely identify it such as “Ralph Smith #2” or “Ralph J Smith 99.”

2. OTHER DAM NAMES (alphanumeric, 65) – 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 semicolon. Leave blank if none.
3. DAM FORMER NAMES (alphanumeric, 65) – Enter any previous reservoir or dam name(s), if changed. Separate names using a semicolon. Leave blank if none.
4. FEDERAL AGENCY ID (alphanumeric, 15) - NRCS dams in Iowa have a federal agency ID consisting of 10 characters, the first two containing the state abbreviation IA. The need for a unique identifier has been replaced by the NID ID (Field 5). All new dams will use the NID ID (see item 5) followed by three zeros.
5. NID ID (alphanumeric, 7) – The IDNR will enter the official NID identification number for the dam. This is assigned by the IDNR for NRCS dams in Iowa. This field is the unique identifier for each dam in the Nation. The ID numbers are requested from IDNR after the forms are received in the State Office.
6. LONGITUDE (number, 12) – Enter the longitude at the dam centerline to the nearest second. Insert the values for degrees, minutes and seconds. The database program will automatically convert the DEG MIN SEC format to decimal degrees (Degrees + Minutes/60 + Seconds/3600). This is the X-coordinate for geocoding.
7. LATITUDE (number, 12) - Enter the latitude at the dam centerline to the nearest second. Insert the values for degrees, minutes and seconds. The database program will automatically convert the DEG MIN SEC format to decimal degrees (Degrees + Minutes/60 + Seconds/3600). This is the Y-coordinate for geocoding.
8. LOCATION (alphanumeric, 30) - Enter the 40 acre tract designation including section, township and range where the dam is located. For example: SENW 09 T87N R42W. This location should be as if you were describing the land for a legal description. It is an abbreviation for the Southeast ¼ of the Northwest ¼, Section 9, Township 87 North, Range 42 West. Always use a two-digit designation for the Section Number and do not use periods or commas.
9. COUNTY (alphanumeric, 30) - Name of county where dam is located.

10. RIVER OR STREAM (alphanumeric, 30) - 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 (alphanumeric, 30) - Name of the 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 TOWN/CITY, MILES (Number, 3) - Distance to nearest downstream city, town, or village, to the nearest mile.
13. NON-FEDERAL DAM ON FEDERAL PROPERTY (alphanumeric, 1) - Enter the code indicating whether the dam is a non-federal dam on federal property, such as in National Forests. Y for Yes or N for No. (Normally N in Iowa)
14. OWNER NAME (alphanumeric, 50) - Name of the owner of the dam.
15. OWNER TYPE (alphanumeric, 1) – Use the following codes to indicate the type of owner:
 

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

 For NRCS, use L if Field #57 = WS, PT, RC or FP.
16. DAM DESIGNER (alphanumeric, 65) – Enter the name of the principal firm(s) or agency accomplishing design of the dam and 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, and Field #50 would show NRCS involvement. Show “USDA NRCS” if the dam was designed by NRCS.
17. DAM TYPE (alphanumeric, 6) - Enter one or more of the following codes to indicate the type of dam. List in the order of importance. For example an entry of CNCB would indicate a concrete buttress dam type. Most Iowa dams will probably be RE.
 

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	
RC for Roller Compacted Concrete		
18. CORE (alphanumeric, 3) – Enter code to indicate position, type of watertight member, and certainty. Do not separate with a comma. 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 (alphanumeric, 3) – Code for the material upon which the dam is founded followed by the certainty; do not separate with a comma. Most NRCS dams will be SK.

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 (alphanumeric, 8) - Enter one or more of the following codes to indicate the purpose(s) for which the reservoir is used. List, in order of importance, up to four purposes. Generally, the project structures should just list the major purpose for which the structure was built, i.e. G or CG.

C Flood Control and Storm Water Management	I Irrigation
D Debris Control	N Navigation
F Fish and Wildlife Pond	R Recreation
G Grade Control	S Water Supply
H Hydroelectric	T Tailings
P Fire Protection, Stock, or Small Farm Pond	O Other

21. YEAR COMPLETED (alphanumeric, 5) - Year in which the original main dam structure was completed. The NID allows addition of an “E” to indicate an estimated date. Enter the four-digit year. Entry date is not to be changed when modifications or rehabilitation are done; use Field #22 below.
22. YEAR MODIFIED (alphanumeric, 60) – Year of major modification or rehabilitation of dam or major control structure is completed. Enter the four-digit year. Major changes are defined as structural, foundation, or mechanical construction activity which significantly restores the project to original condition; changes the projects operation, capacity or structural characteristics (e.g., spillway

or seismic modification); or increases the longevity, stability, or safety of the dam. Use the codes below 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, feet (number, 7) - Length of dam, in feet, 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 added. This should be measured from the plan or computed from the cross section on centerline including the auxiliary spillway bottom width and a distance equal to the freeboard height times the cutslope ratio. For a 3 to 1 cutslope and a FB height of three feet this distance would be 9 feet.
24. DAM HEIGHT, feet (number, 6) – Enter the overall height of the dam to the nearest foot. This is defined as the vertical distance between the lowest point along the crest of the dam (settled top or design top) and the lowest point at the downstream toe which usually occurs in the natural bed of the stream or watercourse.
25. STRUCTURAL HEIGHT, feet (number, 6) - Enter in feet, the structural height of the dam, which is defined as the vertical distance from the lowest point of the excavated foundation to the top of the dam (optional and not required).
26. HYDRAULIC HEIGHT, feet (number, 6) - Enter in feet, the hydraulic height of the dam, which is the vertical distance between the maximum design water level (freeboard design flood, if used) and the lowest point at the downstream toe. Typically for NRCS, this is the same as Field #24 (optional and not required).
27. SURFACE AREA, acres (number, 8) - Enter the surface area, rounded to the nearest acre, of the impoundment at its normal level, the crest of the principal spillway.
28. DRAINAGE AREA, square miles (number, 9) - Enter the drainage area of the dam in square miles to the nearest hundredth. This is defined as the TOTAL area that drains to the dam on a river or stream (acres/640=Square Miles).
29. UNCONTROLLED DRAINAGE AREA, acres (number, 9) - Enter the uncontrolled drainage area of the dam in acres. This is defined as the area not controlled by a designed upstream structure(s). For dams not in series this will be the same (acres) as the drainage area in Field #28.
30. DOWNSTREAM HAZARD POTENTIAL (alphanumeric, 1) - Code to indicate the most current potential hazard classification as defined in the NEM. Use best and latest available information. Qualify currentness in Field #32. 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

31. HAZARD CLASSIFICATION AS DESIGNED OR MODIFIED (alphanumeric, 1)  
- Code to indicate the potential hazard to the downstream area at the time the dam was built or modified. 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.

**L** for Low                      **S** for Significant                      **H** for High

32. HAZARD POTENTIAL CLASSIFICATION YEAR (number, 4) – Year of most recent verification of Hazard Potential Classification in Field #30 by qualified NRCS personnel. Use four digits for the year. For most new NRCS dams this should be the same as Field #21, Year Completed.

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

Y for Yes                                      N for No                                      NR for Not Required

For NRCS, if Field #30 is L or S, this Field is NR.

- 33A. EAP YEAR (number, 4) – Year of completion of the most recent Emergency Action Plan

34. POPULATION AT RISK (number, 5) – 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 #35.

35. POPULATION AT RISK ACCURACY (alphanumeric, 1) - Code indicating if the Population at Risk number in Field #34 is based on a visual estimate or a breach inundation map analysis.

**E** for Estimated visually                      **A** for Analyzed with breach inundation map

36. INSPECTION DATE (date, 10) - 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 and Maintenance Manual(NO&MM). Enter date using the following format: mm/dd/yyyy such as (08/09/2011).

37. INSPECTION FREQUENCY (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. For all new dams in Iowa use the following:

Design Hazard, (Field #31)

**H** use 3

**S** use 5

**L** leave blank

38. SPILLWAY TYPE (alphanumeric, 1) - Letter code that describes the type of auxiliary spillway. Typically for NRCS; if Field #20 includes I, leave this field blank; if Field #42 is NO, Use N for this field; if Field #42 is not NO, use U for this field. (Normally U).

U for Uncontrolled

C for Controlled

N for None.

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

40. OUTLET GATES (alphanumeric, 15) - 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)

R for roller

B for bascule

L for vertical lift

D for drum

N for needle

F for flap

S for slide

V for valve

O for other controlled

41. VOLUME OF DAM, cubic yards (number, 10) - 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. PRIMARY AUXILIARY SPILLWAY (AS1) TYPE (alphanumeric, 2) Code identifying the spillway type of the first auxiliary (emergency) spillway. Most auxiliary spillways in Iowa will be VE. Values are as follows:

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

43. SECONDARY AUXILIARY SPILLWAY (AS2) TYPE (alphanumeric, 2) Code identifying the spillway type of the second auxiliary (emergency) spillway. Enter NO if the site does not have a second auxiliary spillway. Use the codes under Field #42 above.
44. TERTIARY AUXILIARY SPILLWAY (AS3) TYPE (alphanumeric, 2) Code identifying the spillway type of the third auxiliary (emergency) spillway. Enter NO if the site does not have a third auxiliary spillway. Use the codes under Field #42 above.
45. MAXIMUM DISCHARGE, cfs (number, 7) - Enter the number of cubic feet per second (cfs) which the auxiliary spillway is capable of discharging when the pool is at its maximum designed water surface (settled top of dam) elevation.
46. NUMBER OF LOCKS (number, 1) - Number of existing navigation locks for the project. Typically 0 for NRCS.
47. LENGTH OF LOCKS (number, 4) - Length of primary navigation lock. Leave blank for NRCS dams.
48. LOCK WIDTH (number, 3) - Width of the primary navigation lock to the nearest foot. Leave blank for NRCS dams.

The following eight fields (#49 - #56) comprise additional data fields that are only provided by participating federal agencies submitting data to the NID. Typically NRCS should enter data for only 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

49. FEDERAL AGENCY INVOLVEMENT IN FUNDING (alphanumeric, 20)  
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 #57 = WS, PT, RC, FP.
50. FEDERAL AGENCY INVOLVEMENT IN DESIGN (alphanumeric, 20)  
Federal agency involved in design of the dam. Codes are concatenated if several agencies were involved. See Field # 16 for further discussion of this item.
51. FEDERAL AGENCY INVOLVEMENT IN CONSTRUCTION (alphanumeric, 20)  
- Federal agency involved in construction of the dam. Codes are concatenated if several agencies were involved.

52. FEDERAL AGENCY INVOLVEMENT IN REGULATORY (alphanumeric, 20) – Federal agency involved in regulating the dam. Codes are concatenated if several agencies were involved. Typically for NRCS, this field should be blank.
53. FEDERAL AGENCY INVOLVEMENT IN INSPECTION (alphanumeric, 20) - Federal agency involved in Operation and Maintenance type inspections (not construction inspection) of the dam. Codes are concatenated if several agencies were 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).
54. FEDERAL AGENCY INVOLVEMENT IN OPERATION (alphanumeric, 20) – Federal agency involved in operating the dam. Codes are concatenated if several agencies were involved. Typically for NRCS, this field should be blank.
55. FEDERAL AGENCY OWNER (alphanumeric, 20) – 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.
56. FEDERAL AGENCY INVOLVEMENT – OTHER (alphanumeric, 20) – 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.
57. PROGRAM AUTHORIZATION (alphanumeric, 2) - Code to reflect the authorization of the dam as follows:
- |               |              |             |
|---------------|--------------|-------------|
| CO for CO-01  | FP for WF-03 | RC for RC&D |
| WS for PL-566 | PT for PILOT | GP for GPCP |
| OT for Other  |              |             |
- Dams authorized under **WS**, **PT**, **RC**, or **FP** are considered “project” dams.
58. WATERSHED NUMBER (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. This is required for PL-566. Leave blank for CO-01 structures. See pages IA520.28-13 and 14 for a listing of watershed projects in Iowa.
59. WATERSHED NAME (alphanumeric, 40) - Name of watershed project for PL-566 dams. See Field #58.
60. PLANNED SERVICE LIFE (alphanumeric, 3) - 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. Typically project dams will be 50, 75 or 100 years while CO dams will be 35.

61. STATE REGULATED DAM (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; or (c) Permitting:

Y for Yes                      N for No

62. STATE REGULATORY AGENCY (alphanumeric, 30) - Name of the primary state agency with regulatory or approval authority over the dam. Enter “IDNR” in this space.

63. O&M INSPECTION RESPONSIBILITY (alphanumeric, 5) - 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 #14                      NRCS for NRCS  
JOINT for OWNER & NRCS                      OTHER for other party  
NONE for no existing or non-enforceable O&M Agreement

64. O&M INSPECTION CURRENT (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. Leave blank for non-project dams.

Y for Yes                      N for No

65. O&M COMPLETED (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

66. SEDIMENT STORAGE, acre-feet (number, 10) - The sediment storage capacity of the reservoir, to the nearest acre foot. For single purpose structures, include all storage up to the principal spillway crest. For multi-purpose structures show the amount allocated for sediment storage.

67. FLOOD STORAGE, acre-feet (number, 10) - The flood storage capacity of the reservoir, to the nearest acre foot. Typically, this is the capacity of the reservoir between the elevation of the permanent pool and the crest of the auxiliary (emergency) spillway. Include any aerated sediment (storage allocated above the principal crest elevation).

68. SURCHARGE STORAGE, acre-feet (number, 10) - The surcharge capacity of the reservoir, to the nearest acre foot. Typically, this is the capacity of the reservoir between the elevations of the auxiliary (emergency) spillway crest and the settled top of dam.

69. OTHER STORAGE, acre-feet (number, 10) - Any other beneficial capacity of the reservoir, to the nearest acre foot. This would normally be for municipal or industrial water supply, irrigation, fish and wildlife, etc. Typically zero (0) unless the structure is multi-purpose.
70. MAXIMUM STORAGE, acre-feet (number, 10) - The sum of #66, #67, #68, and #69. The computer totals these entries.
71. NORMAL STORAGE, acre-feet (number, 10) - The sum of #66, and #69, (Sediment and Other). The computer totals these entries.
72. PRINCIPAL SPILLWAY TYPE (alphanumeric, 2) - Contains the 2-character code identifying the type of principal spillway as follows:
- |    |                       |    |              |
|----|-----------------------|----|--------------|
| CB | Concrete Box          | OT | Other        |
| CM | Corrugated Metal Pipe | PL | Plastic      |
| CP | Concrete Pipe         | WS | Welded Steel |
| OC | Open Pipe (or chute)  | NO | None         |
73. CONDUIT HEIGHT, feet (number, 4) Contains the height (size) of the largest conduit through the dam to the nearest one tenth of a foot. For round conduits, enter the diameter to the nearest one tenth of a foot.
74. CONDUIT WIDTH, feet (number, 4) - Contains the width (size) of the largest conduit through the dam to the nearest one tenth of a foot. The value may be zero (or blank) if the conduit is round and the diameter has been entered in #73.
75. NUMBER OF CONDUITS (number, 2) - Number of (principal spillway) conduits through the dam.
76. COOL WATER RELEASE (alphanumeric, 1) - Contains a 1-character code indicating if a cold water release exists at the site.
- |   |         |   |        |
|---|---------|---|--------|
| Y | for Yes | N | for No |
|---|---------|---|--------|
77. PRINCIPAL SPILLWAY DISCHARGE cfs (number, 5) - The discharge, to the nearest cfs, that the principal spillway conduit is capable of discharging when the pool is at the auxiliary (emergency) spillway crest elevation.
78. Construction Cost, dollars (money, 10) - Enter the construction cost of the structure to the nearest dollar. This is a required entry for WS, FP, and RC structures and optional for others.
79. Enter the name of the person completing the inventory form and the date the form was completed.
80. Enter the date the IA-ENG-40 form was prepared.

Watershed Project Codes

<u>Code</u>	<u>Project</u> <u>Numerical Listing</u>	<u>Project</u> <u>Alphabetical Listing</u>	<u>Code</u>
2001	Honey Creek	A & T Long Branch	2053
2002	Mule Creek	Bacon Creek	2044
2003	Floyd Creek	Badger Creek	2010
2004	Harmony Creek	Bear Creek	2058
2005	Rocky Branch	Beaver	2028
2006	Simpson Creek	Bee-Jay	2018
2007	Crooked Creek	Big Park	2008
2008	Big Park	Big Wyacondah	2020
2009	Mill-Picayune Creek	Blockton	2027
2010	Badger Creek	Crooked Creek	2007
2011	Hamburg	Dane Ridge	2034
2012	Moulton	Davids Creek	2016
2013	Indian Creek	Davis Battle Creek	2019
2014	Pony Creek	Deer Creek	2035
2015	Ryan-Henschal	Diamond Lake	2026
2016	Davids Creek	East Fork of Big Creek	2801
2017	Hound Dog Creek	East Fork of Grand River	2804
2018	Bee-Jay	English Bench	2024
2019	Davis Battle Creek	Floyd Creek	2003
2020	Big Wyacondah	Gant Creek	2033
2021	Pierce Creek	Hacklebarney	2049
2022	Stennett-Red Oak Creek	Hamburg	2011
2023	Held	Harmony Creek	2004
2024	English Bench	Held	2023
2025	South Hungerford	Honey Creek	2001
2026	Diamond Lake	Hound Dog Creek	2017
2027	Blockton	Indian Creek	2013
2028	Beaver	Indian Creek-Van Buren	2050
2029	Walters Creek	Ledgewood Creek	2041
2030	Turkey Creek	Leutzingler-Lowe Run	2037
2031	Mosquito of Harrison	Little Paint Creek	2057
2032	West Douglas	Little River	2048
2033	Gant Creek	Little Sioux River FP	7601
2034	Dane Ridge	Long Branch	2054
2035	Deer Creek	Mill Creek	2056
2036	Three Mile Creek	Mill-Picayune Creek	2009
2037	Leutzingler-Lowe Run	Morlee	2052
2038	West Sunnyside	Mosquito of Harrison	2031
2039	North Pigeon	Moulton	2012
2040	Waubonsie Creek	Mule Creek	2002
2041	Ledgewood Creek	North Pigeon	2039
2042	Pioneer	Pierce Creek	2021
2043	Simon Run	Pierce Creek #2	2047

<u>Code</u>	<u>Project</u> <u>Numerical Listing</u>	<u>Project</u> <u>Alphabetical Listing</u>	<u>Code</u>
2044	Bacon Creek	Pioneer	2042
2045	Troublesome Creek	Pony Creek	2014
2046	Twelve Mile Creek	Rocky Branch	2005
2047	Pierce Creek #2	Ryan-Henschal	2015
2048	Little River	Simon Run	2043
2049	Hacklebarney	Simpson Creek	2006
2050	Indian Creek-Van Buren	Soap Creek	2055
2051	Twin Ponies	South Hungerford	2025
2052	Morlee	Stennett-Red Oak Creek	2022
2053	A & T Long Branch	Three Mile Creek	2036
2054	Long Branch	Troublesome Creek	2045
2055	Soap Creek	Turkey Creek	2030
2056	Mill Creek	Twelve Mile Creek	2046
2057	Little Paint Creek	Twin Ponies	2051
2058	Bear Creek	Upper Locust Creek	2803
2801	East Fork of Big Creek	Walters Creek	2029
2802	West Fork of Big Creek	Waubonsie Creek	2040
2803	Upper Locust Creek	West Douglas	2032
2804	East Fork of Grand River	West Fork of Big Creek	2802
7601	Little Sioux River FP	West Sunnyside	2038

**NRCS NATIONAL INVENTORY OF DAMS**

(1) DAM NAME:	JOHN Q SMITH	(40) Outlet Gates:	U
(2) Other Dam Names:		(41) Vol of Dam, CY:	46457
(3) Former Names:		(42) Aux. Spwy #1 Type:	VE
(4) Federal ID:	IA0	(43) Aux. #2 Type:	NO
(5) National ID (NID_ID):	IA0	(44) Aux #3 Type:	NO
(6) Longitude (Dec. Deg):	95 45 15 -95.7542	(45) Aux Max Flow, CFS:	650
(7) Latitude (Dec. Deg):	42 21 5 42.3514	(46) Locks, Number:	0
(8) Geodetic Location	SENW 09 T87N R42W	(47) Length:	0
(9) County:	WOODBURY	(48) Width:	0
(10) River/Stream:	TR-DRY BRANCH	(49) Funding:	USDA NRCS
(11) Nearest City, Town:	SIOUX CITY	(50) Design:	USDA NRCS
(12) Distance to Town, Mi.	22	(51) Construction:	USDA NRCS
(13) NFDFFP? Y/N	N	(52) Regulatory:	(blank)
(14) Owner Name:	JOHN Q SMITH	(53) Inspection:	(blank)
(15) Owner Type:	L	(54) Operation:	(blank)
(16) Dam Designer:	USDA NRCS	(55) Owner:	(blank)
(17) Dam Type:	RE	(56) Others:	(blank)
(18) Core: (3-character)	HEK	(57) Program Authorization:	CO
(19) Foundation: (2, 3 char)	SK	(58) Watershed No:	
(20) Purposes: (Up to 4)	CGFR	(59) Watershed Name:	
(21) Year Completed:	2007	(60) Service Life, Yr:	35
(22) Year Modified:		(61) State Regulated, Y/N:	Y
(23) Dam Length, feet:	635	(62) State Agency:	IDNR
(24) Dam Height, feet:	28	(63) OM Insp Resp:	OWNER
(25) Structural Ht, feet:	NR	(64) OM Insp Current (Y/N):	Y
(26) Hydraulic Ht, feet:	NR	(65) OM Completed (Y/N):	Y
(27) Surface Area, Acres:	18	(66) Sediment Storage:	26
(28) Total ADA, SQ. MI:	1.23	(67) Flood Stor:	45
(29) Uncontrolled DA, Acres	787	(68) Surcharge Stor:	25
(30) Current DS Hazard:	L	(69) Other Stor:	0
(31) Haz Class as Designed	L	(70) Maximum Stor:	96
(32) Hazard Class Year:	2005	(71) Normal Stor:	26
(33) Emer. Action Plan EAP	NR	(72) Principal Spillway Type:	CM
33A EAP Year		(73) Conduit Ht/Dia:	2.5
(34) Population at Risk, No:	0	(74) Conduit Width:	
(35) Population Accuracy	E	(75) No. of conduits:	1
(36) Last Inspection Date:		(76) Cool Water Release (Y/N):	N
(37) Inspection Frequency:		(77) PS Discharge, cfs :	102
(38) Spillway Type:	U	(78) Const Cost (Project): \$	57542
(39) Spillway Width	56	(79) By:	Lee White
		(80) Date:	3/27/2008

See NEM IA 520.21 for further definitions and explanations