

Metadata format: ISO 19139**Murray-Darling Basin Weir Information System****ISO 19139 metadata content**

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Resource Identification Information

CITATION

TITLE Murray-Darling Basin Weir Information System

REVISION DATE 2009-01-07

RESPONSIBLE PARTY - CUSTODIAN

ORGANIZATION'S NAME Murray-Darling Basin Authority (Australia)

THEMES OR CATEGORIES OF THE RESOURCE biota, farming, structure, inlandWaters

DESCRIPTIVE KEYWORDS

KEYWORDS ECOLOGY, ECOLOGY Habitat, FISHERIES Freshwater, HUMAN ENVIRONMENT Structures and Facilities, WATER Lakes, WATER Rivers

THESAURUS

TITLE ANZLIC Search Words

UNIQUE RESOURCE IDENTIFIER

VALUE <http://asdd.ga.gov.au/asdd/profileinfo/anzlic-theme.xml>

DESCRIPTIVE KEYWORDS

KEYWORDS Australia

THESAURUS

TITLE Jurisdictions

UNIQUE RESOURCE IDENTIFIER

VALUE <http://asdd.ga.gov.au/asdd/profileinfo/anzlic-jurisdic.xml#anzlic-jurisdic>

ABSTRACT

The Murray-Darling Basin Weir Information System brings together weir and barriers data held by New South Wales, Queensland and Victorian agencies and constructs a basin wide spatial weir information system to assist in the adoption of a strategic approach to the ongoing management of weirs.

DATASET LANGUAGE English

STATUS completed

MAINTENANCE

UPDATE FREQUENCY notPlanned

RESOURCE CONSTRAINTS

CONSTRAINTS

LIMITATIONS OF USE

Murray-Darling Basin Authority copyright conditions apply.

SPATIAL REPRESENTATION TYPE vector

FORMAT

NAME SDE Feature Class

VERSION none

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE 140.300003

EAST LONGITUDE 152.062592

NORTH LATITUDE -24.808300

SOUTH LATITUDE -37.612709

TEMPORAL EXTENT

BEGINNING DATE

INDETERMINATE TIME unknown

ENDING DATE 2001-12-10

SUPPLEMENTAL INFORMATION

Data Dictionary

The data is in ARC/INFO and exists as a point cover (WEIRS_MDB) with point attributes, plus five accompanying lookup tables (MDBSTRUCT.LUT, MDBHYDRO.LUT, MDBENVIRO.LUT, MDBUSE.LUT, and MDBFISH.LUT)

Description of point attributes for WEIRS_MDB:

Item Name	Description	ARC/INFO
item definition		
BARRNUM	Unique identifier number	8,11,F
BARRID	Stream Number plus additional code for structure, this item is used for relates with the lookup tables.	50,50,C
BARRNAME	Name of Dam/weir	50,50,C
REFNUM	Licence/gauge/RWC/file/grant/etc number for cross-referencing data	50,50,C
DESCREF	Description of reference number	50,50,C
LICENCE_NUMBER	Licence number of the weir	50,50,C
LICENCING_AUTH	Name of the licencing authority	50,50,C
LAKENAME	Name of waterbody behind dam/weir if not river name	50,50,C
RIVER_NAME	Name of river the weir is on	50,50,C
CATCH	Catchment the weir is located in	50,50,C
SUBCATCH	Subcatchment the weir is located in	50,50,C
STATE	The State that the weir is in	5,5,C
AMTD	Adopted Middle Thread Distance	8,11,F
EAST	Location of barrier based on the AMG - east	8,11,F
NORTH	Location of barrier based on the AMG - north	8,11,F
LONG	Location of barrier (decimal minutes and seconds) east	50,50,C
LAT	Location of barrier (decimal minutes and seconds) north	50,50,C
GRIDCOM	Comment on whether AMG/LongLat is exact, approximate etc.	50,50,C
LOCATCOM	Other details to help locate the barrier and on accessibility (ie vehicle access only when dry etc)	254,254,C
ACCESS	Is there access for vehicles? (Yes/No/Unknown)	8,11,F
TOWN	The nearest town to structure as shown on map	50,50,C
DISTUS	Distance to the nearest upstream barrier (kilometers)	50,50,C
DISTDS	Distance to the nearest downstream barrier (kilometers)	50,50,C
SKETCHMAP	Is there a sketch map of the location of the barrier on file.	4,4,C
RECMAP	Barrier marked on map?	4,4,C
MAPNAME	Name of the map which the weir is on	254,254,C
MAPNUM	Number of the map the weir is on	50,50,C
SCALE	Scale of the map the weir is on	254,254,C

Description of attributes for MDBSTRUCT.LUT

Item Name	Description	ARC/INFO
item definition		
BARRID	Stream Number plus additional code for structure, this item is used for relates with the lookup tables.	50,50,C
BARRSTAT	Barrier status (existing, proposed, removed)	50,50,C
YEAR_BUILT	Year the barrier was built	50,50,C
CAPACITY	Volume of water which can be held (ML)	4,11,B
STRUCTTYPE	Type (design) of structure	100,100,C
SKETCHSTRUCT	Is there a sketch map of the structure provided in the files?	50,50,C
MATERIAL	Material used to build structure	100,100,C
FOUNDATIONTYPE	Material foundations are built from	50,50,C
CRESTLENGTH	Length in meters at the crest	4,11,B
BASE_LENGTH	Length at base of structure (m	8,16,F
HEIGHT	Vertical height in metres of the crest	4,11,B
BARR_COMMENT	Additional comment on the barrier	254,254,C
SPILLWAY	Does the weir have a spillway	50,50,C
SPILLWAY_T	Spillway type	50,50,C
SPILLWAY_G	Spillway gradient	50,50,C
SPILLWAY_H	Spillway height in meters	50,50,C
SPILLWAY_W	Spillway width in meters	50,50,C
DIAMETER_O_P	Diameter of outlet compensation flow pipe	254,254,C
FISHWAY	Has a fishway been installed?	10,10,C
FISHWAY_TYPE	Type of fishway installed	100,100,C
FISHWAY_G	Fishway gradient	50,50,C
FISHWAY_COMM	Additional comments on fishway	50,50,C
FISHWAYDATE	Date the fishway was constructed	20,20,C
FISHWAY_STATUS	Is the fishway functioning	100,100,C
FISHWAY_MAINT	Does the fishway require maintenance	100,100,C
WEIR_POOL_LENGTH	Length of weir pool in metres	50,50,C
BARRSTATUS	Status of the barrier	50,50,C
MAINTENANCE	Does the barrier require maintenance	50,50,C
MODIFICATION	Does the barrier require modification	50,50,C
REPLACEMENT	Does the barrier require replacement	50,50,C

Description of attributes for MDBHYDRO.LUT

Item Name	Description	ARC/INFO
item definition		
BARRID	Stream Number plus additional code for structure, this item is used for relates with the lookup tables.	50,50,C
OPERATIONAL_PLAN	Does the weir have an operational plan	100,100,C
REL_FREQUENCY	Release operations, frequency	50,50,C
REL_DURATION	Release operations, duration	50,50,C
REL_SEASON	Release operations, season of opening	50,50,C
POOL_DEPTH_US	Average depth of water in the pool upstream of the weir (m)	50,50,C
HEIGHT_WEIRTOBAN	height of weir relative to bank height (m)	50,50,C
CONSTANT_FLOW	Is there constant flow across the weir crest	50,50,C
FLOW_VARY	If there is constant flow across the weir crest does the amount vary.	50,50,C
WHEN_VARY	If there is constant flow across the weir crest when does the flow vary.	50,50,C
DROWNOUT	Does drownout occur	10,10,C
D_FREQ	How frequently does drownout occur	50,50,C
D_FLOW	Discharge required to drown the weir out (ML/day)	50,50,C
D_HEIGHT	Height of water above weir for drownout to occur (m)	50,50,C
FLOW	Stream flow characteristics	100,100,C
FLOW_DESC	Additional comments on stream flow characteristics	

100,100,C
 REGUALTED_US Is the river upstream of the barrier regulated 50,50,C
 REGULATED_DS Is the river downstream of the barrier regulated 50,50,C

Description of attributes for MDBUSE.LUT

Item Name	Description	ARC/INFO
item definition		
BARRID	Stream Number plus additional code for structure, this item is used for relates with the lookup tables.	50,50,C
RECOMMENDATION	What action is recommended for the weir	100,100,C
OWNERSHIP	Owner of the weir (state, private	100,100,C
ORIGINAL_USE	Original use or purpose	100,100,C
CURRENT_USE	Current use or purpose	100,100,C
ADDITIONAL_USES	Additional weir beneficiaries	100,100,C
NO_DIRECT_USERS	Number of direct weir pool users	100,100,C
ADDITIONAL_USERS	Additional weir beneficiaries	100,100,C
HERITAGE_SIGNIF	Does the weir have heritage or cultural significance	100,100,C
ABORIGINAL_SIGNI	Does the weir have aboriginal significance	100,100,C

Description of attributes for MDBENVIRO.LUT

Item Name	Description	ARC/INFO
item definition		
BARRID	Stream Number plus additional code for structure, this item is used for relates with the lookup tables.	50,50,C
RIPARIAN_LU	Flood plain and riparian land use	100,100,C
TIDAL	Is the weir a tidal barrage or located in the tidal zone	10,10,C
CATCH_SECTION	What section of the catchment is the weir located in	50,50,C
COASTAL_INLAND	Is the catchment coastal or inland draining	50,50,C
STREAM_ORDER	Stream order at weir	100,100,C
US_LENGTH	Stream length upstream of weir (km)	50,50,C
US_WIDTH	Width of the river upstream of the weir (m)	50,50,C
US_CATCH	Total catchment area upstream of the weir (sq km)	50,50,C
ACTUAL_CATCH	Catchment Area -from database prior to weir review nov 1999	8,16,F,6
US_POOL_DEPTH	Average depth of water in the pool upstream of the weir (m)	100,100,C
US_CATCH_CON	Condition of the catchment upstream of the weir	100,100,C
US_STREAM_CON	Condition of the catchment downstream from the weir	100,100,C
POOL_WATERQUAL	Standard of water quality in weir pool	100,100,C
POOL_SALINITY	Evidence of salinity problems in the vicinity of the weir pool	100,100,C
GROUND_LEVELS	Changes to ground levels in the vicinity of the weir pool	100,100,C
DS_EROSION	Signs of bed erosion downstream of the weir	100,100,C
CON_ADJBANKS	Condition of the stream banks adjacent to the weir	100,100,C
CON_BANKSUSDS	Condition of the stream banks upstream and downstream of the weir	100,100,C
POOL_SILTATION	Evidence of siltation in the weir pool	100,100,C
ORGANIC_DEBRIS	Accumulation of organic debris around the weir structure	100,100,C
POOL_ALGAE	Has there been any outbreak of algae growth in the weir pool	100,100,C
FREQ_BLOOMS	If yes how often do blooms occur	100,100,C
VEG_LOWERBANKS	Extent of vegetation cover on the lower banks of the river	100,100,C

DIE_BACK Evidence of die back or dead trees in the weir pool zone
100,100,C
 POOL_AQUATIC_VEG What percent of the weir pool area is colonised by aquatic
vegetation 100,100,C
 POOL_INTOFISH Is there a problem with introduced fish species in the weir pool
100,100,C
 POOL_INTOPLANTS Is there a problem with introduced plants in the weir pool
100,100,C

Description of attributes for MDBFISH.LUT

Item Name	Description	ARC/INFO
item definition		
BARRID	Stream Number plus additional code for structure, this item is used for relates with the lookup tables.	50,50,C
LOCATION	Location of species from the barrier (i.e.Upstream/Downstream)	10,10,C
FISHID	Code to identify individual fish species (from ARI)	50,50,C
SOURCE_OF_INFO	Govt Survey, Anecdotal, or Personal Experience	50,50,C
LASTREC	Most recent survey date where species was found up/downstream of barrier	20,20,C
FISHCOMM	Comments on the presence/absence/reappearance of fish species	250,250,C
COMMNAME	Common name by which fish species is known	50,50,C
SPECNAME	Specific name by which fish species is known	50,50,C
MIGRATE	Does this fish species migrate?	3,3,C
MIGREQ	Give the requirements for migration ie. time of year, flow, water temperature, distance travelled.	100,100,C
CONSERVENAT	National conservation status of fish species	50,50,C
CONSERVEVIC	Victorian conservation status of fish species	50,50,C
CONSERVENS	New South Wales conservation status of fish species	50,50,C
CONSERVEQLD	Queensland conservation status of fish species	50,50,C
FFGACT	Flora and Fauna Guarantee Act listing (Victoria)	50,50,C
NATCONSACT	Nature Conservation Act listing (Queensland)	50,50,C
NSWACT	Government listing of fish species (New South Wales)	50,50,C

POINT OF CONTACT - POINTOFCONTACT

ORGANIZATION'S NAME Murray-Darling Basin Authority (Australia)
 CONTACT'S POSITION Natural Resource Information Coordinator

CONTACT INFORMATION

PHONE

VOICE 02 6279 0100
 FAX 02 6230 7579

ADDRESS

DELIVERY POINT GPO BOX 1801
 CITY Canberra
 ADMINISTRATIVE AREA Australian Capital Territory
 POSTAL CODE 2601
 COUNTRY Australia
 E-MAIL ADDRESS gis@mdba.gov.au

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Reference System Information

REFERENCE SYSTEM IDENTIFIER

VALUE EPSG::4283

CODESPACE <http://asdd.ga.gov.au/asdd/profileinfo/anzlic-gmxCrs.xml>

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Data Quality Information

SCOPE OF QUALITY INFORMATION

RESOURCE LEVEL dataset

LINEAGE

LINEAGE STATEMENT

Source data from Queensland Department of Primary Industries ?Murray-Darling Barriers to Fish Migration? (March 2001), NSW Department of Land and Water Conservation ?Weir Inventory Database? (ongoing), and NSW Fisheries ?State Weir Review Database? (ongoing). Data was supplied as MS Access files.

Processing steps;

1. Data was sourced from the relevant organisations
2. Dataset was compiled by combining existing weir databases
3. Data was converted from Access into Arc/Info
4. Point attributes were added as lookup tables
5. Data was built for point topology
6. Metadata added

DATA QUALITY REPORT - COMPLETENESS OMISSION

CONFORMANCE TEST RESULTS

TEST PASSED

NIL REASON missing

RESULT EXPLANATION The databases from which the spatial data was derived documents all licensed weirs in the Murray-Darling Basin.

PRODUCT SPECIFICATION

TITLE

NIL REASON missing

DATE

NIL REASON unknown

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY

CONFORMANCE TEST RESULTS

TEST PASSED

NIL REASON missing

RESULT EXPLANATION Feature accuracy is variable, reflecting the disparate data sources. New South Wales data; 200m-5km depending on source (position accuracy comment field available. Queensland and Victorian data; not documented.

PRODUCT SPECIFICATION

TITLE

NIL REASON missing

DATE

NIL REASON unknown

DATA QUALITY REPORT - NON QUANTITATIVE ATTRIBUTE ACCURACY

CONFORMANCE TEST RESULTS

TEST PASSED

NIL REASON missing

RESULT EXPLANATION Attribute accuracy dependent on source data; Queensland and Victorian data; not documented New South Wales Data; moderate

PRODUCT SPECIFICATION

TITLE

NIL REASON missing

DATE

NIL REASON unknown

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY

CONFORMANCE TEST RESULTS

TEST PASSED

NIL REASON missing

RESULT EXPLANATION Not documented

PRODUCT SPECIFICATION

TITLE

NIL REASON missing

DATE

NIL REASON unknown

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Distribution Information

DISTRIBUTOR

DISTRIBUTOR INFORMATION - POINTOFCONTACT

ORGANIZATION'S NAME Murray-Darling Basin Authority

CONTACT'S POSITION Natural Resource Information Coordinator

CONTACT INFORMATION

PHONE

VOICE 02 6279 0100

FAX 02 6230 7579

ADDRESS

DELIVERY POINT GPO Box 1801

CITY Canberra

ADMINISTRATIVE AREA Australian Capital Territory

POSTAL CODE 2601

COUNTRY Australia

E-MAIL ADDRESS gis@mdba.gov.au

TRANSFER OPTIONS

ONLINE RESOURCE

ONLINE LOCATION

gisprod.SDE.SURFACE_WATER\gisprod.SDE.MDB_WEIR_INFORMATION_SYSTEM

FORMAT

NAME SDE Feature Class

VERSION none

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Metadata Information

LAST UPDATE 2009-01-07

METADATA CONTACT - CUSTODIAN

ORGANIZATION'S NAME Murray-Darling Basin Authority (Australia)

CONTACT'S POSITION Natural Resource Information Coordinator

CONTACT INFORMATION

PHONE

VOICE 02 6279 0100

FAX 02 6230 7579

ADDRESS

DELIVERY POINT GPO BOX 1801

CITY Canberra

ADMINISTRATIVE AREA Australian Capital Territory

POSTAL CODE 2601

COUNTRY Australia

E-MAIL ADDRESS gis@mdba.gov.au

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset

SCOPE NAME dataset

METADATA LANGUAGE English

NAME OF THE METADATA STANDARD USED ANZLIC Metadata Profile: An Australian/New Zealand Profile of AS/NZS ISO 19115:2005, Geographic information - Metadata

VERSION OF THE METADATA STANDARD 1.1

METADATA IDENTIFIER 5d39fb25-cf3f-47f0-8cd8-a20d624d20c7

URI OF THE DATA DESCRIBED BY THE METADATA

gisprod.SDE.SURFACE_WATER\gisprod.SDE.MDB_WEIR_INFORMATION_SYSTEM

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