

# Australian Hydrological Geospatial Fabric (Geofabric) Data Dictionary

Hydrology Reporting Regions

Version 2.0 – November 2011



**Australian Government**  
**Bureau of Meteorology**



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# Geofabric Hydrology Reporting Regions V2.0

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## ObjectClasses

ObjectClass Name	Type	Geometry	Subtype
<b>HR_Regions</b>			<a href="#">SR</a>
<a href="#">AWRADrainageDivision</a>	Simple FeatureClass	Polygon	-
<a href="#">AWRARiverRegion</a>	Simple FeatureClass	Polygon	-
<b>Stand Alone ObjectClass(s)</b>			
<a href="#">AWRADDContractedCatchmentLookup</a>	Table	-	-
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## AWRADDContractedCatchmentLookup

**Alias** AWRADDContractedCatchmentLookup

**Dataset Type** Table

### FeatureType

Field Name	Alias Name	Model Name	Type	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	4	No
ConCatID	ContractedCatchmentID	ConCatID	Integer	4	Yes
AWRAID			Integer	4	Yes

Subtype Name	Default Value	Domain	
Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
GDB_21_AWRAID	Yes	No	AWRAID

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## AWRADrainageDivision

**Alias** AWRADrainageDivision

**Dataset Type** FeatureClass

**FeatureType** Simple

**Geometry:** Polygon  
**Average Number of Points:** 0  
**Has M:** No  
**Has Z:** No  
**Grid Size:** 1,000

Field Name	Alias Name	Model Name	Type	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	4	No
Shape	Shape	Shape	Geometry	0	Yes
HydroID			Integer	4	No
DivNumber	DivisionNumber	DivNumber	String	50	Yes
Division			String	50	Yes
SrcFCName	SourceFeatureClassName	SrcFCName	String	25	No
SrcFType	SourceFeatureType	SrcFType	String	32	No
SrcType	SourceType	SrcType	Integer	4	Yes
SourceID			Integer	4	Yes
FeatRel	FeatureReliability	FeatRel	Date	8	Yes
FSource	FeatureSource	FSource	String	25	No
AttrRel	AttributeReliability	AttrRel	Date	8	Yes
AttrSource	AttributeSource	AttrSource	String	25	No
PlanAcc	PlanimetricAccuracy	PlanAcc	Small Integer	2	Yes
Symbol			Small Integer	2	Yes
TextNote			String	50	Yes

AlbersArea			Double	8	Yes
Shape_Length	Shape_Length	Shape_Length	Double	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	8	Yes
<b>Subtype Name</b>	<b>Default Value</b>		<b>Domain</b>		
<b>Index Name</b>	<b>Ascending</b>	<b>Unique</b>	<b>Fields</b>		
FDO_OBJECTID	Yes	Yes	OBJECTID		
FDO_Shape	No	No	Shape		
GDB_23_HydroID	Yes	No	HydroID		

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## AWRARiverRegion

<b>Alias</b>	AWRARiverRegion		<b>Geometry</b> :Polygon		
<b>Dataset Type</b>	FeatureClass		<b>Average Number of Points:</b> 0		
<b>FeatureType</b>	Simple		<b>Has M:</b> No		
			<b>Has Z:</b> No		
			<b>Grid Size:</b> 1,000		
Field Name	Alias Name	Model Name	Type	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	4	No
Shape	Shape	Shape	Geometry	0	Yes
HydroID			Integer	4	No
Division			String	50	Yes
RivRegNum	RiverRegionNumber	RivRegNum	String	50	Yes
RivRegName	RiverRegionName	RivRegName	String	50	Yes
SrcFCName	SourceFeatureClassName	SrcFCName	String	25	No
SrcFType	SourceFeatureType	SrcFType	String	32	No
SrcType	SourceType	SrcType	Integer	4	Yes
SourceID			Integer	4	Yes
FeatRel	FeatureReliability	FeatRel	Date	8	Yes
FSource	FeatureSource	FSource	String	25	No
AttrRel	AttributeReliability	AttrRel	Date	8	Yes
AttrSource	AttributeSource	AttrSource	String	25	No
PlanAcc	PlanimetricAccuracy	PlanAcc	Small Integer	2	Yes
Symbol			Small Integer	2	Yes
TextNote			String	50	Yes
AlbersArea			Double	8	Yes
Shape_Length	Shape_Length	Shape_Length	Double	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	8	Yes
Subtype Name	Default Value		Domain		
Index Name	Ascending	Unique	Fields		
FDO_OBJECTID	Yes	Yes	OBJECTID		
FDO_Shape	No	No	Shape		
GDB_24_HydroID	Yes	No	HydroID		

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## AWRARRContractedCatchmentLookup

**Alias** AWRARRContractedCatchmentLookup

**Dataset Type** Table

### FeatureType

Field Name	Alias Name	Model Name	Type	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	4	No
ConCatID	ContractedCatchmentID	ConCatID	Integer	4	Yes
AWRAID			Integer	4	Yes

Subtype Name	Default Value	Domain	
<b>Index Name</b>	<b>Ascending</b>	<b>Unique</b>	<b>Fields</b>
FDO_OBJECTID	Yes	Yes	OBJECTID
GDB_22_AWRAID	Yes	No	AWRAID

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## Relationships

Name	Origin	Destination	Attributed	Composite	Rules
<a href="#">DrainDivMapsToConCatchment</a>	AWRADrainageDivision	AWRADDContractedCatchmentLookup	No	No	No
<a href="#">RiverRegMapsToConCatchment</a>	AWRARiverRegion	AWRARRContractedCatchmentLookup	No	No	No

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### DrainDivMapsToConCatchment

<b>Composite</b>	No			
<b>Cardinality</b>	One To Many			
<b>Notification</b>	None			
<b>Attributed</b>	No			
	<b>Origin</b>		<b>Destination</b>	
<b>ObjectClass</b>	AWRADrainageDivision		AWRADDContractedCatchmentLookup	
<b>Key</b>	HydroID ( <i>Origin Primary Key</i> )		AWRAID ( <i>Origin Foreign Key</i> )	
<b>Labels</b>	is mapped to		maps to	

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### RiverRegMapsToConCatchment

<b>Composite</b>	No			
<b>Cardinality</b>	One To Many			
<b>Notification</b>	None			
<b>Attributed</b>	No			
	<b>Origin</b>		<b>Destination</b>	
<b>ObjectClass</b>	AWRARiverRegion		AWRARRContractedCatchmentLookup	
<b>Key</b>	HydroID ( <i>Origin Primary Key</i> )		AWRAID ( <i>Origin Foreign Key</i> )	
<b>Labels</b>	is mapped to		maps to	

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## Spatial references

Dimension	Minimum	Precision
<b>HR_Regions</b>		
<b>X</b>	-400	1,000,000,000
<b>Y</b>	-400	
<b>M</b>	0	100,000
<b>Z</b>	0	100,000
<b>Coordinate System Description</b> GEOGCS["GCS_GDA_1994", DATUM["D_GDA_1994", SPHEROID["GRS_1980",6378137.0,298.257222101]], PRIMEM["Greenwich",0.0], UNIT["Degree",0.0174532925199433], AUTHORITY["EPSG",4283]]		

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Through the *Water Act 2007*, the Australian Government has given the Bureau of Meteorology responsibility for compiling and delivering comprehensive water information across Australia.

**For more information**

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Send an email request to [waterinfo@bom.gov.au](mailto:waterinfo@bom.gov.au)



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