

# WMS Layer ID Fact Sheet

## *Land Information System Tasmania*

**Land**Tasmania

### What is happening?

Land Tasmania (LT) is changing the way in which layers within its WMS services are referenced in the LIST web services.

WMS Services are currently referenced by using its 'Layer ID' number. This will be changed to use the 'Layer Name' as its reference.

To enable this change, any 'reserved characters' used within those 'Layer Names', from all services, will be also be removed. The list of characters no longer used is at the end of the document.

### Why is this happening?

Clients who use Web Map Services (WMS) to consume spatial information can experience loss of web service connection to those services, when changes are made to LIST web services or layers.

It has been identified that a software limitation exists whereby the 'Layer ID', which is the reference that an individual layer is identified by within a service, can change each time the service is republished, causing the broken links at the client end. The solution that has been identified is to switch the layer reference from its 'Layer ID' to its 'Layer Name'.

Whilst testing this solution LT has identified that some characters currently within its web service layers names can no longer be used. Therefore as part of this fix some web service layer names will be changed. The web service layers affected are detailed later in this document.

These changes will have little impact to clients, as most connect through the REST interface that will continue to use the 'Layer ID' as a reference.

### When will the changes be implemented?

LT is targeting to implement these changes to its LISTservices on the 19<sup>th</sup>-20<sup>th</sup> September 2020 and will provide updates and information on its progress through theLIST homepage ([www.thelist.tas.gov.au](http://www.thelist.tas.gov.au)).

# WMS Layer ID Issue – theLIST

## What do I need to do?

If you consume **any** LIST web service via the WMS protocol, then when the changes are implemented, you will need to change any link that you currently have to a layer within a service - from using its 'Layer ID' to its 'Layer Name' as its reference.

You can find the layer name in the WMS capabilities file accessed through <https://services.thelist.tas.gov.au/arcgis/services/<SERVICE FOLDER and NAME>/MapServer/WMSServer?request=GetCapabilities&service=WMS>

e.g.

[https://services.thelist.tas.gov.au/arcgis/services/Public/ABS\\_2011/MapServer/WMSServer?request=GetCapabilities&service=WMS](https://services.thelist.tas.gov.au/arcgis/services/Public/ABS_2011/MapServer/WMSServer?request=GetCapabilities&service=WMS)

and

<https://services.thelist.tas.gov.au/arcgis/services/Public/CadastralAndAdministrative/MapServer/WMSServer?request=GetCapabilities&service=WMS>

with the name being within the '<NAME>' tags

e.g.

```
▼<Layer queryable="1">
  <Name>Cadastral Parcels</Name>
  ▼<Title>
    <![CDATA[ Cadastral Parcels ]]>
  </Title>
  ▼<Abstract>
```

If you access LISTservices through the REST protocol (which also uses the Layer ID as a layer reference), you will not have to do anything as the Layer ID are persistent for REST and will not change.

## Does this affect ESRI REST services that use the 'Layer ID' as reference?

No. If you are accessing the REST endpoint, you will still access individual layers via their 'Layer ID' (i.e. <https://services.thelist.tas.gov.au/arcgis/rest/services/Public/CadastralParcels/MapServer/0>) and this won't change as LT has implemented 'Persistent ID Numbers' to its services (this isn't effective for the WMS protocol portion of the service)

# WMS Layer ID Issue – theLIST

## What services / layers will be affected?

LT will be implementing the 'WMS Layer Name' referencing site wide, however only certain services / layers will be affected by the subsequent name changes (i.e. those containing reserved characters in their names).

The public services (as of 23<sup>rd</sup> July 2020) that will be affected by layer name changes are:

<https://services.thelist.tas.gov.au/arcgis/rest/services/.....>

- Public\ABS\_2011
- Public\ABS\_2016
- Public\ClimateChange
- Public\Education
- Public\MarineAndCoastal
- Public\NaturalEnvironment
- Public\OpenDataWFS
- Public\TopographyAndRelief
- Public\WealthFromWater
- Public\WealthFromWater\_V3

The full list of layer name changes can be found in the Appendix of this document.

For restricted services / layers (i.e. those requiring usernames / passwords to access), please contact the LIST helpdesk to determine if those services you use will be affected.

## Will this change the LISTmap Layer names?

No. This change will only alter the layer names within the ArcGIS Server services (those accessed via <https://services.thelist.tas.gov.au/arcgis/rest/>), not the layer names as presented in the LISTmap application.

## Further Information

Please contact the LIST helpdesk for further information.

Phone: (03) 6165 4444

Email: [listhelp@dpipwe.tas.gov.au](mailto:listhelp@dpipwe.tas.gov.au)

# WMS Layer ID Issue – theLIST

## Appendix:

### Service Name Changes list (Public Services only):

Service	Original Layer Name	New Layer Name
Public\ABS_2011	Population (SA4) - 2011	Population [SA4] - 2011
	Population (SA3) - 2011	Population [SA3] - 2011
	Population (SA2) - 2011	Population [SA2] - 2011
	Population (SA1) - 2011	Population [SA1] - 2011
	Population (LGA) - 2011	Population [LGA] - 2011
	Median Age (LGA) - 2011	Median Age [LGA] - 2011
	Percent Unemployment (LGA) - 2011	Percent Unemployment [LGA] - 2011
	Private Dwellings (LGA) - 2011	Private Dwellings [LGA] - 2011
	People Aged Over 75 (SA1) - 2011	People Aged Over 75 [SA1] - 2011
	Household Income Less Than \$400 a Week (SA1) - 2011	Household Income Less Than Aud400 a Week [SA1] - 2011
	Dwellings With No Motor Vehicles (SA1) - 2011	Dwellings With No Motor Vehicles [SA1] - 2011
	People Speaking English Not Well or at All (SA1) - 2011	People Speaking English Not Well or at All [SA1] - 2011
	People With Need For Assistance (SA1) - 2011	People With Need For Assistance [SA1] - 2011
	People Aged 0-4 (SA4) - 2011	People Aged 0-4 [SA4] - 2011
	People Aged 0-4 (SA3) - 2011	People Aged 0-4 [SA3] - 2011
	People Aged 0-4 (SA2) - 2011	People Aged 0-4 [SA2] - 2011
	People Aged 0-4 (SA1) - 2011	People Aged 0-4 [SA1] - 2011
	People Aged 5-14 (SA4) - 2011	People Aged 5-14 [SA4] - 2011
	People Aged 5-14 (SA3) - 2011	People Aged 5-14 [SA3] - 2011
	People Aged 5-14 (SA2) - 2011	People Aged 5-14 [SA2] - 2011
	People Aged 5-14 (SA1) - 2011	People Aged 5-14 [SA1] - 2011
	People Aged 15-19 (SA4) - 2011	People Aged 15-19 [SA4] - 2011
	People Aged 15-19 (SA3) - 2011	People Aged 15-19 [SA3] - 2011
	People Aged 15-19 (SA2) - 2011	People Aged 15-19 [SA2] - 2011

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People Aged 15-19 (SA1) - 2011	People Aged 15-19 [SA1] - 2011
People Aged 20-24 (SA4) - 2011	People Aged 20-24 [SA4] - 2011
People Aged 20-24 (SA3) - 2011	People Aged 20-24 [SA3] - 2011
People Aged 20-24 (SA2) - 2011	People Aged 20-24 [SA2] - 2011
People Aged 20-24 (SA1) - 2011	People Aged 20-24 [SA1] - 2011
People Aged 25-34 (SA4) - 2011	People Aged 25-34 [SA4] - 2011
People Aged 25-34 (SA3) - 2011	People Aged 25-34 [SA3] - 2011
People Aged 25-34 (SA2) - 2011	People Aged 25-34 [SA2] - 2011
People Aged 25-34 (SA1) - 2011	People Aged 25-34 [SA1] - 2011
People Aged 35-44 (SA4) - 2011	People Aged 35-44 [SA4] - 2011
People Aged 35-44 (SA3) - 2011	People Aged 35-44 [SA3] - 2011
People Aged 35-44 (SA2) - 2011	People Aged 35-44 [SA2] - 2011
People Aged 35-44 (SA1) - 2011	People Aged 35-44 [SA1] - 2011
People Aged 45-54 (SA4) - 2011	People Aged 45-54 [SA4] - 2011
People Aged 45-54 (SA3) - 2011	People Aged 45-54 [SA3] - 2011
People Aged 45-54 (SA2) - 2011	People Aged 45-54 [SA2] - 2011
People Aged 45-54 (SA1) - 2011	People Aged 45-54 [SA1] - 2011
People Aged 55-64 (SA4) - 2011	People Aged 55-64 [SA4] - 2011
People Aged 55-64 (SA3) - 2011	People Aged 55-64 [SA3] - 2011
People Aged 55-64 (SA2) - 2011	People Aged 55-64 [SA2] - 2011
People Aged 55-64 (SA1) - 2011	People Aged 55-64 [SA1] - 2011
People Aged 65-74 (SA4) - 2011	People Aged 65-74 [SA4] - 2011
People Aged 65-74 (SA3) - 2011	People Aged 65-74 [SA3] - 2011
People Aged 65-74 (SA2) - 2011	People Aged 65-74 [SA2] - 2011
People Aged 65-74 (SA1) - 2011	People Aged 65-74 [SA1] - 2011
People Aged 75-84 (SA4) - 2011	People Aged 75-84 [SA4] - 2011
People Aged 75-84 (SA3) - 2011	People Aged 75-84 [SA3] - 2011
People Aged 75-84 (SA2) - 2011	People Aged 75-84 [SA2] - 2011
People Aged 75-84 (SA1) - 2011	People Aged 75-84 [SA1] - 2011
People Aged 85 and Over (SA4) - 2011	People Aged 85 and Over [SA4] - 2011
People Aged 85 and Over (SA3) - 2011	People Aged 85 and Over [SA3] - 2011

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People Aged 85 and Over (SA2) - 2011	People Aged 85 and Over [SA2] - 2011
People Aged 85 and Over (SA1) - 2011	People Aged 85 and Over [SA1] - 2011
SEIFA Advantage and Disadvantage (SA1) - 2011	SEIFA Advantage and Disadvantage [SA1] - 2011
SEIFA Advantage and Disadvantage (SA2) - 2011	SEIFA Advantage and Disadvantage [SA2] - 2011
SEIFA Socioeconomic Disadvantage (SA1) - 2011	SEIFA Socioeconomic Disadvantage [SA1] - 2011
SEIFA Socioeconomic Disadvantage (SA2) - 2011	SEIFA Socioeconomic Disadvantage [SA2] - 2011
SEIFA Index of Economic Resources (SA1) - 2011	SEIFA Index of Economic Resources [SA1] - 2011
SEIFA Index of Economic Resources (SA2) - 2011	SEIFA Index of Economic Resources [SA2] - 2011
SEIFA Education and Occupation (SA1) - 2011	SEIFA Education and Occupation [SA1] - 2011
SEIFA Education and Occupation (SA2) - 2011	SEIFA Education and Occupation [SA2] - 2011
Female Population (SA4) - 2011	Female Population [SA4] - 2011
Female Population (SA3) - 2011	Female Population [SA3] - 2011
Female Population (SA2) - 2011	Female Population [SA2] - 2011
Female Population (SA1) - 2011	Female Population [SA1] - 2011
Female Population (LGA) - 2011	Female Population [LGA] - 2011
Male Population (SA4) - 2011	Male Population [SA4] - 2011
Male Population (SA3) - 2011	Male Population [SA3] - 2011
Male Population (SA2) - 2011	Male Population [SA2] - 2011
Male Population (SA1) - 2011	Male Population [SA1] - 2011
Male Population (LGA) - 2011	Male Population [LGA] - 2011
Percent Male Population (SA1) - 2011	Percent Male Population [SA1] - 2011
Projected Population Change (SA2) - 2011	Projected Population Change [SA2] - 2011
Projected Population Change (LGA) - 2011	Projected Population Change [LGA] - 2011
Population Density (SA4) - 2011	Population Density [SA4] - 2011
Population Density (SA3) - 2011	Population Density [SA3] - 2011
Population Density (SA2) - 2011	Population Density [SA2] - 2011
Population Density (SA1) - 2011	Population Density [SA1] - 2011
Population Density (LGA) - 2011	Population Density [LGA] - 2011
Percent Female Population (SA1) - 2011	Percent Female Population [SA1] - 2011
Industry (LGA) - Agri or forestry and fish - 2011	Industry [LGA] - Agri or forestry and fish - 2011
Industry (SA2) - Agri or forestry and fish - 2011	Industry [SA2] - Agri or forestry and fish - 2011

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Industry (LGA) - Mining - 2011	Industry [LGA] - Mining - 2011
Industry (SA2) - Mining - 2011	Industry [SA2] - Mining - 2011
Industry (LGA) - Manufacturing - 2011	Industry [LGA] - Manufacturing - 2011
Industry (SA2) - Manufacturing - 2011	Industry [SA2] - Manufacturing - 2011
Industry (LGA) - Elec or gas or water and waste services - 2011	Industry [LGA] - Elec or gas or water and waste services - 2011
Industry (SA2) - Elec or gas or water and waste services - 2011	Industry [SA2] - Elec or gas or water and waste services - 2011
Industry (LGA) - Construction - 2011	Industry [LGA] - Construction - 2011
Industry (SA2) - Construction - 2011	Industry [SA2] - Construction - 2011
Industry (LGA) - Wholesale trade - 2011	Industry [LGA] - Wholesale trade - 2011
Industry (SA2) - Wholesale trade - 2011	Industry [SA2] - Wholesale trade - 2011
Industry (LGA) - Retail trade - 2011	Industry [LGA] - Retail trade - 2011
Industry (SA2) - Retail trade - 2011	Industry [SA2] - Retail trade - 2011
Industry (LGA) - Accommodation and food services - 2011	Industry [LGA] - Accommodation and food services - 2011
Industry (SA2) - Accommodation and food services - 2011	Industry [SA2] - Accommodation and food services - 2011
Industry (LGA) - Transport or post and warehousing - 2011	Industry [LGA] - Transport or post and warehousing - 2011
Industry (SA2) - Transport or post and warehousing - 2011	Industry [SA2] - Transport or post and warehousing - 2011
Industry (LGA) - Information media and telecommunication - 2011	Industry [LGA] - Information media and telecommunication - 2011
Industry (SA2) - Information media and telecommunication - 2011	Industry [SA2] - Information media and telecommunication - 2011
Industry (LGA) - Financial and insurance services - 2011	Industry [LGA] - Financial and insurance services - 2011
Industry (SA2) - Financial and insurance services - 2011	Industry [SA2] - Financial and insurance services - 2011
Industry (LGA) - Rental or hiring and real estate services - 2011	Industry [LGA] - Rental or hiring and real estate services - 2011
Industry (SA2) - Rental or hiring and real estate services - 2011	Industry [SA2] - Rental or hiring and real estate services - 2011
Industry (LGA) - Professional or scientific and technical services - 2011	Industry [LGA] - Professional or scientific and technical services - 2011

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Industry (SA2) - Prof or scientific and tech services - 2011	Industry [SA2] - Prof or scientific and tech services - 2011
Industry (LGA) - Admin and support services - 2011	Industry [LGA] - Admin and support services - 2011
Industry (SA2) - Admin and support services - 2011	Industry [SA2] - Admin and support services - 2011
Industry (LGA) - Public admin and safety - 2011	Industry [LGA] - Public admin and safety - 2011
Industry (SA2) - Public admin and safety - 2011	Industry [SA2] - Public admin and safety - 2011
Industry (LGA) - Education and training - 2011	Industry [LGA] - Education and training - 2011
Industry (SA2) - Education and training - 2011	Industry [SA2] - Education and training - 2011
Industry (LGA) - Health care and social assist - 2011	Industry [LGA] - Health care and social assist - 2011
Industry (SA2) - Health care and social assist - 2011	Industry [SA2] - Health care and social assist - 2011
Industry (LGA) - Arts and rec services - 2011	Industry [LGA] - Arts and rec services - 2011
Industry (SA2) - Arts and rec services - 2011	Industry [SA2] - Arts and rec services - 2011
Industry (LGA) - Other services - 2011	Industry [LGA] - Other services - 2011
Industry (SA2) - Other services - 2011	Industry [SA2] - Other services - 2011
Industry (LGA) - Inadequately desc or Not stated - 2011	Industry [LGA] - Inadequately desc or Not stated - 2011
Industry (SA2) - Inadequately desc or Not stated - 2011	Industry [SA2] - Inadequately desc or Not stated - 2011
TAS Gov Projected Population Change 0-4 (LGA) - 2011	TAS Gov Projected Population Change 0-4 [LGA] - 2011
TAS Gov Projected Population Change 5-12 (LGA) - 2011	TAS Gov Projected Population Change 5-12 [LGA] - 2011
TAS Gov Projected Population Change 13-19 (LGA) - 2011	TAS Gov Projected Population Change 13-19 [LGA] - 2011

<b>Public\ABS_2016</b>	SEIFA Advantage and Disadvantage (SA1) - 2016	SEIFA Advantage and Disadvantage [SA1] - 2016
	SEIFA Advantage and Disadvantage (SA2) - 2016	SEIFA Advantage and Disadvantage [SA2] - 2016
	SEIFA Disadvantage (SA1) - 2016	SEIFA Disadvantage [SA1] - 2016
	SEIFA Disadvantage (SA2) - 2016	SEIFA Disadvantage [SA2] - 2016



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SEIFA Index of Economic Resources (SA1) - 2016	SEIFA Index of Economic Resources [SA1] - 2016
SEIFA Index of Economic Resources (SA2) - 2016	SEIFA Index of Economic Resources [SA2] - 2016
SEIFA Education and Occupation (SA1) - 2016	SEIFA Education and Occupation [SA1] - 2016
SEIFA Education and Occupation (SA2) - 2016	SEIFA Education and Occupation [SA2] - 2016
Projected Population Change (LGA) - 2011	Projected Population Change [LGA] - 2011
SEIFA Advantage and Disadvantage (Localities) - 2016	SEIFA Advantage and Disadvantage [Localities] - 2016
SEIFA Advantage and Disadvantage (LGA) - 2016	SEIFA Advantage and Disadvantage [LGA] - 2016
SEIFA Disadvantage (Localities) - 2016	SEIFA Disadvantage [Localities] - 2016
SEIFA Disadvantage (LGA) - 2016	SEIFA Disadvantage [LGA] - 2016
SEIFA Index of Economic Resources (Localities) - 2016	SEIFA Index of Economic Resources [Localities] - 2016
SEIFA Index of Economic Resources (LGA) - 2016	SEIFA Index of Economic Resources [LGA] - 2016
SEIFA Education and Occupation (Localities) - 2016	SEIFA Education and Occupation [Localities] - 2016
SEIFA Education and Occupation (LGA) - 2016	SEIFA Education and Occupation [LGA] - 2016

<b>Public\ClimateChange</b>	Near Future Relative Humidity change (Percentage) A2	Near Future Relative Humidity change [Percentage] A2
	Coastal Projected Storm Tide 20161201 (1% AEP 2010)	Coastal Projected Storm Tide 20161201 [1pct AEP 2010]
	Coastal Projected Storm Tide 20161201 (1% AEP 2050)	Coastal Projected Storm Tide 20161201 [1pct AEP 2050]
	Coastal Projected Storm Tide 20161201 (1% AEP 2100)	Coastal Projected Storm Tide 20161201 [1pct AEP 2100]

<b>Public\Education</b>	DoE School Intake Areas 2020 (Current)	DoE School Intake Areas 2020 [Current]
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<b>Public\MarineAndCoastal</b>	Coastline of Australia (AUSLIG 1:1M)	Coastline of Australia [AUSLIG 1:1M]
	Marine Habitat Mapping 1:25K (TAFI)	Marine Habitat Mapping 1:25K [TAFI]
	Derwent Habitat Mapping 1:25K (TAFI)	Derwent Habitat Mapping 1:25K [TAFI]

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Bathymetric Data - Continental Shelf (AUSLIG 1:1M)	Bathymetric Data - Continental Shelf [AUSLIG 1:1M]
Fishing Block (DPIPWE)	Fishing Block [DPIPWE]
Recreational Fishing Restrictions (DPIPWE)	Recreational Fishing Restrictions [DPIPWE]
Seagrass Beds c1950 (Rees 1993)	Seagrass Beds c1950 [Rees 1993]
Seagrass Beds c1970 (Rees 1993)	Seagrass Beds c1970 [Rees 1993]
Seagrass Beds c1990 (Rees 1993)	Seagrass Beds c1990 [Rees 1993]
AMBIS Territorial Sea Baselines (TSB)	AMBIS Territorial Sea Baselines [TSB]
Shoreline Type classifications (OSRA) (Sharples 2000)	Shoreline Type classifications [OSRA] [Sharples 2000]
Bathymetry - Seabed Contours 1:25K (TAFI)	Bathymetry - Seabed Contours 1:25K [TAFI]
Bathymetric Contours (100m intervals)	Bathymetric Contours [100m intervals]
Wetland (OSRA)	Wetland [OSRA]
Cetacean (whale and dolphin) Sightings (PWS)	Cetacean [whale and dolphin] Sightings [PWS]
Fur Seal Haul Out or Colony (OSRA PWS)	Fur Seal Haul Out or Colony [OSRA PWS]
Seabird Sightings (OSRA)	Seabird Sightings [OSRA]
Shorebird or Wader Sightings (OSRA)	Shorebird or Wader Sightings [OSRA]
Feral Oyster Survey (TAFI)	Feral Oyster Survey [TAFI]
Recreational Abalone Zones (DPIPWE)	Recreational Abalone Zones [DPIPWE]

<b>Public\NaturalEnvironment</b>	Threatened Native Vegetation Communities 2014 (TNVC 2014)	Threatened Native Vegetation Communities 2014 [TNVC 2014]
	Floodplain (LIST 1:250K)	Floodplain [LIST 1:250K]
	Weather Station (Long term averages) (BOM 1999)	Weather Station [Long term averages] [BOM 1999]
	CFEV Groundwater Dependent Ecosystems (GDEs)	CFEV Groundwater Dependent Ecosystems [GDEs]
	CFEV River Section Catchments (RSCs)	CFEV River Section Catchments [RSCs]
	Geoconservation Sites - Interim (Outlines)	Geoconservation Sites - Interim [Outlines]
	Geoconservation Sites - Listed (Outlines)	Geoconservation Sites - Listed [Outlines]
	EPA Regulated Sites (Documents)	EPA Regulated Sites [Documents]
	Wedge-tailed Eagle Nesting Habitat - High (above 700 m) Elevation Model	Wedge-tailed Eagle Nesting Habitat - High [above 700 m] Elevation Model

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Wedge-tailed Eagle Nesting Habitat - Low (under 850 m) Elevation Model	Wedge-tailed Eagle Nesting Habitat - Low [under 850 m] Elevation Model
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<b>Public\OpenDataWFS</b>	LIST Coastline (MHWL)	LIST Coastline [MHWL]
	LIST Easements (not a maintained dataset)	LIST Easements [not a maintained dataset]
	TASMAP Towns Street Atlas Page Index (v8)	TASMAP Towns Street Atlas Page Index [v8]

<b>Public\TopographyAndRelief</b>	Rivers Streams and Creeks (All)	Rivers Streams and Creeks [All]
	Rivers Streams and Creeks (Major and Intermediate)	Rivers Streams and Creeks [Major and Intermediate]
	Rivers Streams and Creeks (Major)	Rivers Streams and Creeks [Major]
	Water Bodies - Water Body and Watercourse (Major)	Water Bodies - Water Body and Watercourse [Major]
	Water Bodies - Water Body and Watercourse (All)	Water Bodies - Water Body and Watercourse [All]
	Roads - Route Number Annotation (Dynamic)	Roads - Route Number Annotation [Dynamic]
	Roads - Road Name Annotation (Dynamic)	Roads - Road Name Annotation [Dynamic]
	Building Polygons (Part 1)	Building Polygons [Part 1]
	Building Polygons (Part 2)	Building Polygons [Part 2]

<b>Public\WealthFromWater</b>	Chill Hours Between 0 and 7 Degrees (May to August)	Chill Hours Between 0 and 7 Degrees [May to August]
	Growing Degree Days (October to April)	Growing Degree Days [October to April]

<b>Public\WealthFromWater_V3</b>	Enterprise Suitability - Wheat (CFT 2050 RCPs scenario 8.5)	Enterprise Suitability - Wheat [CFT 2050 RCPs scenario 8.5]
	Enterprise Suitability - Wheat (CFT 2030 RCPs scenario 8.5)	Enterprise Suitability - Wheat [CFT 2030 RCPs scenario 8.5]
	Enterprise Suitability - Tablewine Grapes (CFT 2050 RCPs scenario 8.5)	Enterprise Suitability - Tablewine Grapes [CFT 2050 RCPs scenario 8.5]
	Enterprise Suitability - Tablewine Grapes (CFT 2030 RCPs scenario 8.5)	Enterprise Suitability - Tablewine Grapes [CFT 2030 RCPs scenario 8.5]
	Enterprise Suitability - Sparkling Winegrapes (CFT 2050 RCPs scenario 8.5)	Enterprise Suitability - Sparkling Winegrapes [CFT 2050 RCPs scenario 8.5]

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Enterprise Suitability - Sparkling Winegrapes (CFT 2030 RCPs scenario 8.5)	Enterprise Suitability - Sparkling Winegrapes [CFT 2030 RCPs scenario 8.5]
Enterprise Suitability - Poppies (CFT 2050 RCPs scenario 8.5)	Enterprise Suitability - Poppies [CFT 2050 RCPs scenario 8.5]
Enterprise Suitability - Poppies (CFT 2030 RCPs scenario 8.5)	Enterprise Suitability - Poppies [CFT 2030 RCPs scenario 8.5]
Enterprise Suitability - Barley (CFT 2050 RCPs scenario 8.5)	Enterprise Suitability - Barley [CFT 2050 RCPs scenario 8.5]
Enterprise Suitability - Barley (CFT 2030 RCPs scenario 8.5)	Enterprise Suitability - Barley [CFT 2030 RCPs scenario 8.5]
Enterprise Suitability - Potatoes (CFT 2030 RCPs scenario 8.5)	Enterprise Suitability - Potatoes [CFT 2030 RCPs scenario 8.5]
Enterprise Suitability - Potatoes (CFT 2050 RCPs scenario 8.5)	Enterprise Suitability - Potatoes [CFT 2050 RCPs scenario 8.5]

# WMS Layer ID Issue – theLIST

## Reserved characters no longer to be used in service / layer names:

The following characters are considered ‘Reserved Characters’ and will not work in a WMS service once the setting for ‘Layer Names’ as the layer reference is set, therefore they will be replace in all existing services and will no longer be included in any future service names

Reserved Character	Replacement within Layer Names
&	and
<	LT (i.e. Less Than...)
>	GT (i.e. Greater Than...)
"	Not used in Layer Names
'	Removed (not replaced)
?	Not used in Layer Names
@	Not used in Layer Names
=	Not used in Layer Names
\$	Aud
~	Not used in Layer Names
^	Not used in Layer Names
`	Not used in Layer Names
#	Not used in Layer Names
%	pct
*	Not used in Layer Names
(	[
)	]

Other Replacement Combinations	Replacement within Layer Names
<=	LTEQ (i.e. Less Than or Equal To...)
>=	GTEQ (i.e. Greater Than or Equal To...)