

Imagery resources used by Te Uru Rākau - New Zealand Forest Service in GIS assessments

A guide to accessing imagery used in GIS assessments of Te Uru Rākau - New Zealand Forest Service administered forestry schemes

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Overview

This document details imagery resources that may be used by Te Uru Rākau - New Zealand Forest Service when conducting Geospatial Information Systems (GIS) assessments of Te Uru Rākau - New Zealand Forest Service administered forestry schemes.

This document was created for the purpose of sharing with individuals and organisations who request information on the imagery resources used by Te Uru Rākau - New Zealand Forest Service, such as in Official Information Act (OIA) requests, or directly through queries related to forestry schemes, for example the Emissions Trading Scheme (ETS) and One Billion Trees Programme.

Additional relevant imagery may be available from other sources not listed in this document such as aerial and satellite imagery companies and regional and district councils. Please contact these organisations directly to find out what imagery they have available.

To note: imagery listed in this document may require specialised GIS software to access.

Disclaimer

While every effort has been made to ensure the information in this publication is accurate, Te Uru Rākau - New Zealand Forest Service does not accept any responsibility or liability for error of fact, omission, interpretation or opinion that may be present, nor for the consequences of any decisions based on this information.

Te Uru Rākau - New Zealand Forest Service reserves the right to update this document as it becomes aware of new imagery sources which are publicly available.

Contents

Overview	2
Disclaimer	2
Contents.....	3
Crown agencies imagery.....	4
Land Information New Zealand (LINZ)	4
Retrolens historical imagery resource	4
Ministry for the Environment (MfE)	4
Regional and district council imagery.....	5
Public and private providers of aerial and satellite imagery	8
Google Earth	8
EOS Land Viewer	8
ESRI World Imagery Wayback	8
ESRI World Imagery	8
ESRI Sentinel Explorer	8
ESRI Landsat Explorer	9
Satellites.Pro	9
Sentinel Hub EO Browser.....	9
USGS Earth Explorer and NASA Earth Data.....	9
New Zealand Community Basemaps	9
Digital Globe	9

Crown agencies imagery

Land Information New Zealand (LINZ)

LINZ publicly available imagery is available here:

<https://data.linz.govt.nz/data/category/aerial-photos/>

The LINZ aerial imagery basemap is available here:

<https://basemaps.linz.govt.nz/>

In 2023, more than 38,000 high-resolution aerial images dated from 1975 to 2005 were added to the LINZ aerial imagery basemap, with many images dated close to 1990.

Retrolens historical imagery resource

High quality historical aerial imagery collected over a range of dates is found here:

<http://retrolens.nz/>

This site is administered by LINZ.

Ministry for the Environment (MfE)

The MfE Satellite Data Search page is available here:

<http://environment.govt.nz/facts-and-science/science-and-data/satellite-data-search>

Some of these datasets may be used by Te Uru Rākau - New Zealand Forest Service but are not publicly available, including SPOT satellite data. Please see the website above for links to the metadata and the relevant contact per dataset.

Data.Govt.NZ

The New Zealand open data portal can be found here:

<https://catalogue.data.govt.nz/dataset>

Regional and district council imagery

The table below details the links to imagery and data held by individual councils throughout New Zealand.

Server/App Name	Server URL
Auckland Council Geomaps	https://geomapspublic.aucklandcouncil.govt.nz/viewer/index.html
Bay of Plenty Maps	https://maps.boprc.govt.nz/pages/map-gallery
Central Hawke's Bay District Council Viewer	https://maps.chbdc.govt.nz/intramaps90/?project=CHBDC&module=Draft%20District%20Plan
Dunedin City Council - aerials and historic aerials	https://www.dunedin.govt.nz/do-it-online/maps-and-photos
Environment Canterbury ArcGIS Server via REST	https://gisbasemap.ecan.govt.nz/arcgis/rest/services
Gisborne District Council ArcGIS Server via REST	https://maps.gdc.govt.nz/arcgis/rest/services/Imagery
Gisborne District Council Viewer	https://gizzy.maps.arcgis.com/apps/webappviewer/index.html?id=03377f3e0ff744a2898336e01f269fb2
Gisborne District Council Viewer	https://maps.gdc.govt.nz/H5V2_12/
Gore District Council Viewer	https://www.goredc.govt.nz/property-rates/maps
Grey District Council Viewer	https://greydc.spatial.t1cloud.com/spatial/IntraMaps/?configId=2f6f83a4-782b-45eb-9b60-d5819e718428&project=Grey
Greater Wellington Regional Council ArcGIS Server via REST	https://mapping.gw.govt.nz/arcgis/rest/services
Greater Wellington Regional Council Maps	https://mapping.gw.govt.nz/gwrc/
Hauraki District Council Maps	https://maps.hauraki-dc.govt.nz/intramaps90/default.htm
Horowhenua District Council Viewer	http://mapit.horowhenua.govt.nz/HDCGPGISNZ/
Hutt City Council - Historic Aerial viewer	https://maps.huttcity.govt.nz/HistoricAerials/index.html
Hutt City Council ArcGIS Server via REST	https://maps.huttcity.govt.nz/server02/rest/services

Server/App Name	Server URL
Hutt City Council Viewer	https://maps.huttcity.govt.nz/portal/apps/webappviewer/index.html?id=b57270f1aa9348e295ef775ad04537ff
Invercargill City Council Maps	https://gis.icc.govt.nz/ICCMapsGallery/
Kapiti Coast District Council ArcGIS Server via REST	https://maps.kapiticoast.govt.nz/server/rest/services/Imagery
Kapiti Coast District Council Maps	https://maps.kapiticoast.govt.nz/LocalMaps/Gallery/
Marlborough District Council Maps	https://maps.marlborough.govt.nz/smartmaps
Masterton District Council Maps	https://gis.mstn.govt.nz/WairarapaMaps/
Matamata Piako District Council Viewer	https://experience.arcgis.com/experience/704d3df5ea3140f4b7008b961599a90f
Napier City Council - Data Downloads	https://data.napier.govt.nz/
Napier City Council ArcGIS Server via WMS	https://services.arcgisonline.co.nz/arcgis/rest/services/Imagery/newzealand/MapServer
Napier City Council Maps	https://www.napier.govt.nz/services/gis/
New Plymouth District Council Viewer	https://geo.npdc.govt.nz/portal/apps/webappviewer/index.html?id=3b8f85d463584df895f4a4ee97d8507c
Northland Regional Council Maps	https://localmaps.nrc.govt.nz/LocalMapsGallery/
Otago Regional Council ArcGIS Server via REST	https://maps.orc.govt.nz/arcgis/rest/services
Palmerston North City Council ArcGIS Server via REST	https://geosite.pncc.govt.nz/arcgis/rest/services
Palmerston North City Council Maps	https://data-pncc.opendata.arcgis.com/search?tags=aerial%2CCategory
Porirua City Council ArcGIS Server via REST	https://data-pcc.opendata.arcgis.com/search?tags=Aerials
Rotorua Lakes Council Aerial Viewer	https://spatial.rdc.govt.nz/IntraMaps22B/?configId=7a62bcf0-5f08-442d-a679-edd12f7f1342&project=RLC%20Public&suite=PR
Ruapehu District Council Maps	https://maps.ruapehudc.govt.nz/intramaps90/?project=Ruapehu
South Waikato District Council Maps	https://southwaikatodc-open-data-portal-southwaikatodc.opendata.arcgis.com/

Server/App Name	Server URL
Southland Historical Photos	http://esgis.maps.arcgis.com/apps/webappviewer/index.html?id=63714d49e41a40cda14189e5862e144f
Taupō District Council ArcGIS Server via REST	https://maps.taupodc.govt.nz/server/rest/services/imagery
Taupō District Council Viewer	https://taupo.maps.arcgis.com/apps/webappviewer/index.html?id=0248094929a04d01bb0c3144560264f6
Top of The South Maps ArcGIS Server via REST	http://www.topofthesouthmaps.co.nz/ArcGIS/rest/services/
Top of The South Viewer	https://www.topofthesouthmaps.co.nz/app/
Waikato City Council Viewer	https://waikatodc.spatial.t1cloud.com/spatial/intramaps/?configId=e6b2fca7-5d63-4aed-b49c-c32dc8cb1002&project=Public
Waikato Regional Council ArcGIS Server via REST	https://arcmaps.waikatoregion.govt.nz/arcgis/rest/services
Waikato Regional Council Maps	https://data-waikatolass.opendata.arcgis.com/search?tags=Imagery
Waikato Regional Council Maps	https://www.waikatoregion.govt.nz/services/maps/
Waipa District Council Maps	https://www.waipadc.govt.nz/our-services/maponline
Waitomo District Council Viewer	https://maps.waitomo.govt.nz/IntraMaps90/
Wellington City Council ArcGIS Server via REST	http://gis.wcc.govt.nz/arcgis/rest/services
Wellington City Council Maps	https://data-wcc.opendata.arcgis.com/
West Coast Maps	http://gis.westcoast.govt.nz/WestMaps/
West Coast Regional Council Maps	https://www.wcrc.govt.nz/council/online-services/maps-online
Whakatane District Council Data Portal	http://data-whakatane.opendata.arcgis.com/
Whanganui District Council Maps	https://www.whanganui.govt.nz/Property/Online-Maps

Public and private providers of aerial and satellite imagery

While all efforts have been made to list imagery held by private organisations, Te Uru Rākau - New Zealand Forest Service also notes that there are an array of private imagery providers that are not covered here. Please search online for other imagery providers.

Google Earth

Aerial imagery collected over a range of dates can be found here:

<https://www.google.com/earth/>

Imagery is available in web format or by downloading the Google Earth Pro desktop application. If you have GIS software (e.g. ArcGIS Pro, QGIS) then you can view the latest Google Earth imagery directly in your GIS project by adding the following link:

<http://mt0.google.com/vt/lyrs=s&hl=en&x={x}&y={y}&z={z}>

EOS Land Viewer

Satellite imagery collected over a range of dates can be found here:

<https://eos.com/landviewer/>

ESRI World Imagery Wayback

Aerial imagery collected over a range of dates can be found here:

<https://livingatlas.arcgis.com/wayback>

ESRI World Imagery

Aerial imagery collected over a range of dates can be found here:

<https://www.arcgis.com/home/item.html?id=10df2279f9684e4a9f6a7f08febac2a9>

ESRI Sentinel Explorer

Satellite imagery collected over a range of dates can be found here:

<https://sentinel2explorer.esri.com/>

ESRI Landsat Explorer

Satellite imagery collected over a range of dates can be found here:

<https://livingatlas2.arcgis.com/landsatexplorer/>

If you have an ArcGIS Enterprise license you can load Sentinel-2 Views imagery directly into your GIS project, this can be done through:

<https://www.arcgis.com/home/item.html?id=fd61b9e0c69c4e14bebd50a9a968348c>

Satellites.Pro

Aerial and satellite imagery collected over a range of dates can be found here:

https://satellites.pro/New_Zealand_map

Sentinel Hub EO Browser

Satellite imagery collected over a range of dates can be found here:

<https://apps.sentinel-hub.com/sentinel-playground/> or <https://apps.sentinel-hub.com/eo-browser/>

USGS Earth Explorer and NASA Earth Data

Landsat satellite imagery collected over a range of dates can be found here:

<https://earthexplorer.usgs.gov/> or <https://earthdata.nasa.gov/>

New Zealand Community Basemaps

Imagery can be found here:

<https://services.arcgisonline.co.nz/arcgis/rest/services>

Digital Globe

Te Uru Rākau - New Zealand Forest Service also uses Kiwimagery in GIS assessments. This imagery is not publicly available.