

## Waikato 0.3m Rural Aerial Photos (2016-2019)

### Title

Waikato 0.3m Rural Aerial Photos (2016-2019)

### Creator

LINZ - Land Information New Zealand

### Date

2016

### Description

Orthophotography over the Waikato Region captured over three flying seasons (summer periods) 2016/2017, 2017/2018, and 2018/2019. The area of capture is located within the upper North Island and encompasses all or part of 11 territorial authorities. It also includes parts of Bay of Plenty, Hawke's Bay and Manawatu-Whanganui. Imagery was captured for the 'Waikato Regional Aerial Photography Service (WRAPS) 2017 - 2019' by Aerial Surveys Ltd, Unit A1, 8 Saturn Place, Albany, 0632, New Zealand. Data comprises: •3668 ortho-rectified RGB GeoTIFF images in NZTM projection, tiled into the LINZ Standard 1:5,000 tile layout •Tile layout in NZTM projection containing relevant information. The supplied imagery is in terms of New Zealand Transverse Mercator (NZTM) map projection. Please refer to the supplied tile layout shape file for specific details, naming conventions, etc. Imagery supplied as 30cm pixel resolution (0.30 m GSD), 3-band (RGB) uncompressed GeoTIFF. The final spatial accuracy is  $\pm 0.5$  m @ 95% confidence level. Index tiles for this dataset are available as layer [Waikato 0.3m Rural Aerial Photos Index Tiles (2016-2019)](<http://data.linz.govt.nz/layer/104585>)

### Source

Project Aerial photography was captured over the Waikato Region and including parts of Bay of Plenty, Hawke's Bay and Manawatu-Whanganui Regions. The area of capture is located within the upper North Island and encompasses all or part of 11 territorial authorities. The area covers approximately 28,136.75 km<sup>2</sup>. The aerial capture was completed over three seasons being 2016/2017, 2017/2018, 2018/2019. Data Acquisition The aerial photography for this project was partially captured within the 2016/17 flying season (From September 2016 – April 2017) and extended for the 2017/2018 season. Then further extended for the 2018/2019 season to complete the aerial capture. Capture Dates The aerial imagery covering the entire project area was captured on the following dates: 2016/2017 Season: 10/09/2016 (Gannet Island), 22/10/2016, 21/11/2016, 22/11/2016, 28/01/2017, 05/02/2017, 09/02/2017, 10/02/2017, 14/03/2017, 20/04/2017, 21/04/2017, 22/04/2017, 24/04/2017, 25/04/2017, 26/04/2017. 2017/2018 Season: 04/12/2017, 15/02/2018, 16/02/2018, 10/03/2018. 2018/2019 Season: 04/02/2019, 10/02/2019, 11/02/2019, 26/02/2019, 03/03/2019, 04/03/2019, 14/04/2019, 15/04/2019. Camera and Flying Height Photography captured using Vexcel's digital UCE camera fitted with the 100 mm lens and flown at an altitude of approximately 18,928 ft (5,769 m) with the lowest ground GSD set at 0.3 m. Sun Angle Imagery captured with a minimum sun angle of 35 degrees. Towards the end of the season the sun angle was lowered to a minimum on 30 degrees. For aerial capture on this project the sun angle ranged from 28.1 to 74.7 degrees Flight Planning SN13794 Rural: 95 runs, 15,400 frames Stereo capture: Forward overlap 80%. Side overlap 35%. Environmental Specification Imagery captured with minimal cloud or cloud shadow within the area of interest. Aerial photography of all harbour, coastal and tidal areas acquired during low tide periods, this being defined as the period two hours either side of low tide. Ground Control A combination of existing control and LINZ benchmarks were used for aerial triangulation for this project.

### Coverage

-39.3269841456 174.529758306 -36.3811520556 176.710359883

### Identifier

<https://data.linz.govt.nz/layer/104600-waikato-03m-rural-aerial-photos-2016-2019/>

### Type

grid

### Language

eng

### Subject

imageryBaseMapsEarthCover

