



Monitoring Programs for Agriculture

Planet Labs' Monitoring Programs for Agriculture leverage the RapidEye constellation of 5 identical satellites, which image up to 5 million km² every day. Planet Labs' Monitoring Programs provide access to an enormous pool of 5-meter, 5-band in-season imagery allowing for accurate and timely extraction of crop-relevant information. Our cloud-based delivery and discovery solution lets subscribers have fast and easy access to the acquired imagery over their areas of interest shortly after collection in addition to archived imagery from previous seasons.

- + Large area collection
- + High in-season revisit rates
- + 5-meter resolution

- + Quick delivery and easy access
- + Customizable programs



RapidEye Ortho Product (Level 3A) tile acquired in May, June, July, August (left to right) over Gettysburg, South Dakota, USA.



Program Features

Imaging Service	
Area of interest (AOI) (*)	Select the AOI of your monitoring program or subscribe to an existing one
Time of interest (TOI) (*)	Select start and end dates of your monitoring program or subscribe to an existing one
Acquisition frequency	Typically, monthly acquisition windows <ul style="list-style-type: none"> • Minimum one image per time window • Additional collections within a time window are also delivered • Other options subject to feasibility
Acquisition mode	RapidEye constellation tasked daily to collect imagery over the AOI on a daily basis Typically, about 75% of imagery collected within +/- 10° look angle
Cloud cover	20% or less
Multi-year archive* <small>*Feature subject to feasibility</small>	Optional: Get access to previous season's imagery over your AOI

Type of Imagery Product											
RapidEye Ortho Product (Level 3A)	Tiled (25 x 25 km) to RapidEye tile grid										
Pixel size	5 meter (geopositional accuracy controlled with high-resolution imagery)										
Spectral bands	<table border="0"> <tr><td>Blue</td><td>440 – 510 nm</td></tr> <tr><td>Green</td><td>520 – 590 nm</td></tr> <tr><td>Red</td><td>630 – 685 nm</td></tr> <tr><td>Red Edge</td><td>690 – 730 nm</td></tr> <tr><td>Near-Infrared</td><td>760 – 850 nm</td></tr> </table>	Blue	440 – 510 nm	Green	520 – 590 nm	Red	630 – 685 nm	Red Edge	690 – 730 nm	Near-Infrared	760 – 850 nm
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Green	520 – 590 nm										
Red	630 – 685 nm										
Red Edge	690 – 730 nm										
Near-Infrared	760 – 850 nm										
Radiometric resolution	16-bit										
File format size	GeoTIFF 238 MB per product										

Catalog, Discovery, and Access	
Web interface	Web client for instant search, access, and download of imagery
Search API	API for instant search, access, and download of imagery
Delivery time	72 hours or less after acquisition guaranteed
Delivery method	https

For Further Information

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