

THE OFFERING

VEGETATIVE FRACTION PACKAGE

The establishment and maintenance of a strong crop canopy is a key driver of high yields. The vegetative fraction analysis estimates canopy cover as a percentage of the total plot area by isolating green pixels from high resolution images. The vegetative fraction can be used as a snapshot or analyzed in a series for rate of canopy closure.

HOW DOES IT WORK?

You will receive a geospatial overlay of all plot boundaries, a map of vegetative fraction, and plot-level values extracted to CSVs.

	B	C	D	
1	Range	Row	% Vegetative Fraction	
2		1	1	0.8642
3		1	2	0.8521
4		1	3	0.8922
5		1	4	0.7031
6		1	5	0.821
7		1	6	0.8367
8		1	7	0.9001
9		1	8	0.8589
10		1	9	0.6892
11		1	10	0.8342
12		2	1	0.6044
13		2	2	0.8788
14		2	3	0.9123
15		2	4	0.7213
16		2	5	0.8371



- We will collect 5-band multispectral imagery in the red, green, blue, near infrared, and red edge wavebands

1

- We will process the imagery into a georeferenced map of the vegetative fraction

2

- We will generate plot overlays according to the experimental design and use them to extract vegetative fraction for each plot

3

WHAT ELSE CAN I USE THE DATA FOR?

The tool can track canopy closure rate, and the response of crops at the canopy level to changes in:



Genetics



Crop protection



Seeding rate



Growth products



Row width

Used during early emergence, the vegetative fraction is an indicator of seedling growth and enhances the value of a stand count by showing the number of plants emerged, and the level of vigour. As the season progresses, use the vegetative fraction as a proxy for percentage of canopy cover which can be applied to models of plant growth rate and yield.

3 EASY STEPS TO ORDER:

1

Log into our order management platform at soar.deveronuas.com and create an account or use your existing login credentials.

2

Click  to import (or create) your field boundary.

3

Click  and complete the information. Choose **Research-Vegetative Fraction** as the reason for your order. Based on the estimated plant date, we will determine the most beneficial data collection protocols.



You are done! Our pilots will collect the data. You will be notified once each step is completed. The final product will be available through your SOAR account.

Estimated turnaround time from data capture to deliverable is **3-5 business days**, depending on the complexity of analysis required.

Having trouble? Visit www.deveronuas.com/products for a video tutorial on how to order this product!

Contact Us

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