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Agriculture is now the most popular industry leveraging such advantages of satellite data as large area coverage, accuracy of results, and high acquisition frequency, which means that territory as small as a single field or as huge as an entire country can be observed from space at a certain frequency.

And yet, there's still a lack of knowledge and lots of misbeliefs around these mysterious vegetation indices. To help users better understand how to work with NDVI in the most effective way and reap most benefits, we decided to come up with this go-to PAGE

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[Mining](#)[Space Infrastructure](#)[Philosophy](#)[Sustainability Commitment](#)[such spectral bands that enhances the contrast between vegetation \(having high](#)[reflectance\) and bare soil, manmade structures, etc. as well as quantifies plant's](#)[Max Polyakov](#)[Table Of Contents](#)[Academic Outreach Program](#)[Partnership - over a hundred indices for vegetation analysis; to learn more, check](#)[EOSDA Index Database.](#)[Blog](#)[Learn more about Agriculture](#)[vegetation analysis](#)[Forestry](#)[Case Studies](#)[News](#)[Contact Us](#)[Vegetation Indices To Drive](#)[Digital Agri Sol](#)[Schedule a demo](#)[Change Detect](#)[Schedule a demo](#)[Vegetation Analysis](#)[Precision](#)[Schedule a demo](#)[REQUEST](#)[EN](#)[EN](#)[ES](#)[PT](#)[TRY N](#)[UK](#)[RU](#)

## What Is NDVI In Remote Sensing?

Difference Vegetation Index is a simple indicator of actively active biomass or, in layman's terms, a calculation of health. In EOSDA Crop Monitoring, a cloud-free NDVI is also

## What Does NDVI Show?

ion from other types of land cover also allows to define and visualize abnormal changes in the growth

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## How To Calculate NDVI?

NDVI is calculated with the following expression:  $NDVI = (NIR-Red) / (NIR+Red)$ , where NIR is near-infrared light and Red is visible red light. There's a great number of free online GIS tools that allow you to instantly calculate NDVI.

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## 5. If You Need To Calculate NDVI, Which Type Of Bands You Would Use?

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You can reliably detect and analyze vegetation cover separately from other types of land cover.

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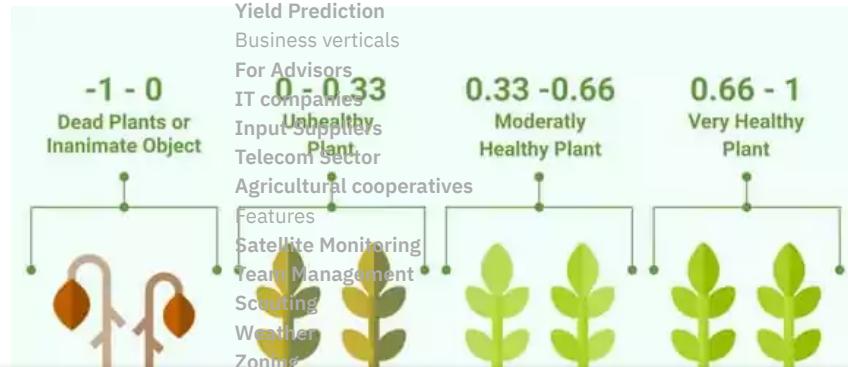
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## NDVI Value Represents Healthy Vegetation, A Lone Or A Negative One?

As you may know, the results of the NDVI calculation range from -1 to 1. Negative values correspond to areas with water surfaces, manmade structures, rocks, clouds, snow; bare soil usually falls within 0.1- 0.2 range; and plants will always have positive values between 0.2 and 1. Healthy, dense vegetation canopy should be above 0.5, and sparse vegetation will most likely fall within 0.2 to 0.5. However, it's only a rule of thumb and you should always take into account the season, type of plant and regional peculiarities to know exactly what NDVI values mean.



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Sustainability commitment creates the highest possible density of green leaves.

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Max Polyakov s and the row width as you interpret the obtained results.

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Saturates at high amounts of green biomass. Simply put, you may end up having

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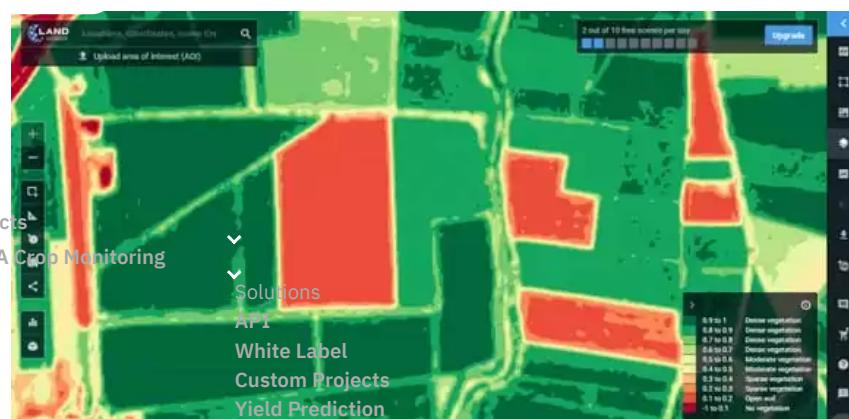
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## Interpret NDVI Images?

NDVI results are presented as a color map, where each color e's no standard color palette, but ning that red-orange-yellow tints ind all shades of green are a sign

on't know how to read NDVI imagery, just check the index legend, we have in LandViewer (as shown on the image in the bottom right remember that some software lets create your own index palette.



## 10. What Are The Alternatives Of NDVI?

Actually, there is a fair amount of vegetation indices, which are based on the standard NDVI. Unlike it, they are adjusted for soil brightness, atmospheric effects, and other factors usually affecting NDVI results. They are EVI, SAVI, ARVI, GCL, SIPI, and you can learn more about them here.

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green biomass, which indicates of growth. NDVI values are also known to

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## 14. Why Does NDVI Show The Phase Of Crops?

It's a matter of fact, NDVI values obtained with satellite data with high temporal resolution (e.g., MODIS) have a strong correlation with crop phenological stages (e.g., sowing, growth, maturity, harvest). However, there are certain limitations. For example, during the early stages of crop growth, when the green leaf area is small, NDVI results are very sensitive to soil background effects. The NDVI may overestimate the crop coverage at later stages, when the crops reach canopy closure, and produce false alarms.

## 15. Why Is NDVI Value Different For Different Cultures?

Every crop type has a different canopy structure, growth stages, and growing conditions. All these factors result in a result, produce different NDVI values.

## 16. Is A Normal Value NDVI For Wheat/Rapeseed/Soybean?

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Unfortunately, there are no established norms of NDVI values for different crop types because every field is unique and readings depend on a combination of various factors (climate, soil type, agricultural management practices). We recommend taking satellite data across several seasons and generating NDVI Time Series to identify the growing patterns and normal values for your own field.

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### 15. Can I Use NDVI For Vineyards?

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NDVI is used to establish normal growing conditions for the crops in the specific area with the help of satellite imagery.

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6) Detect areas of concern within the field faster, and spend water, crop  
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nutrients, and pesticides more effectively

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## How Can NDVI Be Used To Optimize Fungicide Application?

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s. First, you can use NDVI maps of your field to validate the results of various fungicides and see which one leads to healthier and more robust crops. Second, the NDVI image can be used as a prescription map showing you the areas, where crops may have been suffering from fungal disease, so fungicide can be applied accordingly. It will cost you less than spraying the entire field.

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## 18. How Can NDVI Assist In Eradicating Weed Infestation?

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Sustainability commitment, quantity losses caused by severe weather, overspray, drought, etc. spending far less time and human resources; Newsroom insights with historical imagery dating 30-40 years back; Max Polyakov

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## To Differentiate Between Crops And Trees?

This can be tricky. Both crops and trees can have high NDVI values, it's challenging to distinguish between the two. The easiest way is to mean NDVI value for each of the 3 months in the past year. The eas having high NDVI values for more than 3 months in a row will mean coniferous forest. Crops rarely maintain high NDVI this long.

## /Deforestation With

the mean NDVI value for several the date of alleged forest clearing and compare it with the mean same months a year ago. If there's at least a 0.25 drop in NDVI, then likely spotted a tree cut. Or you can use an automatic change detection: it will highlight the spots, where any land cover changes have on a pair of images taken at different dates (preferably, for the same month across different years).

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*Massive cutting of old-growth forests on Vancouver Island, Canada between 2017 and 2018*

It's important to perform analyses with imagery having the lowest possible cloud cover to avoid false negative values. The problem with this method is that

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[Sugarcane](#) has gained the reputation of drought detector, which means it can point out the areas covered with overly dry vegetation (= low NDVI values), where fire risk is highest.

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has over 30 years of experience in agronomy and pedology (soil science). He is a Doctor with a specialization in soil science.

Dr. Cherlinka attended the engineering college in Ukraine (1989-1993), went on to deepen his expertise in agrochemistry and agronomy in the Chernivtsi National University in the specialty, "Agrochemistry and soil science".

In 2001, he successfully defended a thesis, "Substantiation of Agroecological Conformity of Models of Soil Fertility and its Factors to the Requirements of Field Cultures" and obtained the degree of Biosciences Candidate with a special emphasis on soil science from the NSC "Institute for Soil Science and Agrochemistry Research named after O.N. Sokolovsky".

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In 2019, Dr. Cherlinka successfully defended a thesis, "Digital Elevation Models in Soil Science: Theoretical and Methodological Foundations and Practical Use" and obtained the PhD in Biosciences with a specialization in soil science.

[Label](#)[Custom Projects](#)

Vasyl is married, has two children (son and daughter). He has a lifelong passion for sports (he's a candidate for Master of Sports of Ukraine in powerlifting and has even taken part in Strongman competitions).

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Since 2018, Dr. Cherlinka has been working at EOSDA on problems in soil science, agronomy, and agrochemistry.

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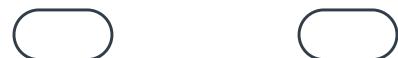
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