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| Index | Name | Approximation | Formula |
| NDVI | Normalized Difference Vegetation Index | Biomass, LAI, Intercepted PAR, does not eliminate atmospheric effects | Range: -1 – 1  Green Vegetation: 0.2-0.8 |
| NDRE | Normalized Difference Red Edge | Sensitive to chlorophyll content against soil background effects |  |
| GNDVI | Green Normalized Difference Vegetation Index | Rate of photosynthesis and plant stress indicator, intercepted PAR, LAI, more sensitive to chlorophyll concentration than NDVI |  |
| CCCI | Canopy Chlorophyll Content Index | Leaf and canopy N content, takes into account relationship between canopy cover and canopy N |  |
| CVI | Chlorophyll Vegetation Index | Leaf chlorophyll concentration at canopy scale |  |
| OSAVI | Optimized Soil Adjusted Vegetation Index | Helps with interference from bare soil, LAI |  |
| GOSAVI | Green Optimized Soil Adjusted Vegetation Index | Similar to OSAVI, originally designed to predict N requirements for corn |  |
| GSAVI | Green Soil Adjusted Vegetation Index | Predict N requirements for Corn, similar to SAVI |  |
| SAVI | Soil Adjusted Vegetation Index | Helps with interference from bare soil, LAI |  |
| GLI | Green Leaf Index | Negative values are soil and non-living features, positive values are green vegetation, good for cover | Range: -1 - 1 |
| VARI | Visual Atmospheric Resistance Index | Leaf coverage with low sensitivity to atmospheric effects |  |
| BNDVI | Blue Normalized Difference Vegetation Index | Sensitive to chlorophyll content |  |
| EVI | Enhanced Vegetation Index | Doesn’t saturate as rapidly as NDVI in dense vegetation, photosynthesis and plant transpiration, LAI | Range: 0 - 1 |
| SR or RVI | Simple Ratio/Ratio Vegetation Index | Biomass, LAI, cover |  |
| NPCI | Normalized Pigment Chlorophyll Ratio Index | Leaf chlorophyll |  |
| GCI | Green Chlorophyll Index | Leaf chlorophyll |  |
| RECI | Red Edge Chlorophyll Index | Leaf chlorophyll |  |
| PSRI | Plant Senescence Reflectance Index | Plant senescence |  |
| MSAVI | Modified Soil Adjusted Vegetation Index | Reduces noise from soil |  |
| ENDVI | Enhanced Normalized Difference Vegetation Index | Improvement on NDVI by including plant reflectance of green band |  |
| LAI | Leaf Area Index | Estimate of LAI using EVI | Range: 0-3.5 but can exceed 3.5 with clouds or bright features |
| GDVI | Green Difference Vegetation Index | Predict N requirements for Corn |  |