

■ Bloom Farm Report

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Farm NDVI Report: Njoro Agri-Hub

This report provides a detailed analysis of the Normalized Difference Vegetation Index (NDVI) for your farm, Njoro Agri-Hub, based on the latest available satellite imagery. The NDVI is a key indicator of plant health and vegetation density, offering valuable insights into crop vitality and potential areas of concern.

1. Executive Summary

The recent NDVI analysis for Njoro Agri-Hub indicates a **Good** overall crop health status. The farm exhibits healthy vegetation with good coverage across the analyzed area. This suggests that current agricultural practices are effective in maintaining robust crop growth.

2. Analysis Details

- **Analysis Type:** Satellite Crop Health
- **Farm Center Coordinates:** Latitude: -0.37, Longitude: 35.932
- **Date of Satellite Image:** 2025-10-09
- **Satellite Used:** Sentinel-2
- **Cloud Cover at Image Capture:** 12.4%

3. NDVI Metrics

The NDVI values range from -1 to +1, where higher positive values indicate healthier and denser vegetation. Values near zero or negative typically represent non-vegetated areas or unhealthy vegetation.

- **Mean NDVI:** 0.615
- **Minimum NDVI:** 0.615
- **Maximum NDVI:** 0.615
- **Standard Deviation of NDVI:** 0

The consistent mean, minimum, and maximum NDVI values, along with a standard deviation of 0, suggest uniform vegetation health across the sampled area at the farm center. An NDVI of 0.615 is indicative of very healthy and dense vegetation.

4. Crop Health Status

- **Health Status:** Good
- **Description:** Healthy vegetation with good coverage
- **Recommendation:** Crops are doing well. Continue current management practices.

This assessment confirms that the crops are thriving, and no immediate interventions related to vegetation health are required based on this satellite data.

5. Visual Imagery

To provide a visual context to this report, the following links provide access to the raw and NDVI processed satellite imagery:

- **RGB Image (True Color):** [View Image](#)
- **NDVI Image (Vegetation Index Map):** [View Image](#)

These images can help in visually identifying areas of high and low vegetation density and corroborating the numerical NDVI data.

6. Conclusion

The current satellite crop health analysis for Njoro Agri-Hub reveals excellent conditions, with high and uniform NDVI values across the farm. This indicates strong plant vigor and good overall management. Continued monitoring is recommended to promptly identify any changes in vegetation health.

Data Sources

- Data provided by the Farm Agent on 2025-10-26 (Satellite Crop Health Data).