Supplementary Materials

Table S1. Average climatological data during the trial.

Month	Temperature (ºC)	Relative Humidity (%)	Precipitation mm	Evapotranspiration mm
Nov	11.5	85.3	37.3	36.9
Dec	7.58	96.1	40.9	18.6
Jan	5.71	78.7	11.9	39.1
Feb	5.12	80.8	14.7	40.4
Mar	12.41	64.7	0.81	107
Ap	15.39	60.8	2.62	134
May	17.9	58.5	9.49	169
Jun	22.5	69.8	48.6	167

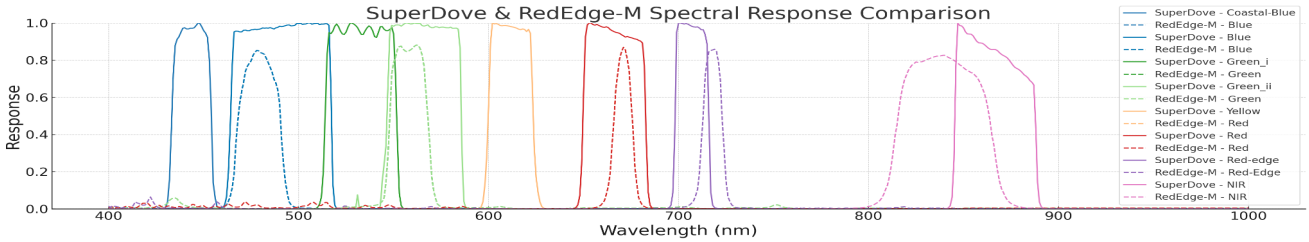


Figure S1. PlanetScope Superdove and MicaSense RedEdge-M bands from SuperDove sensor.

Table S2. PlanetScope and MicaSense bands with their respective spectrum.

PlanetScope bands	**Planetscope Spectrum**	**Micasense RedEdge-M bands**	**Micasense Spectrum**
B1 (Coastal Aerosol)	431 - 452 nm	-	-
B2 (Blue)	465 - 515 nm	Blue	465 - 485 nm
B3 (Green 1)	513 - 549 nm	-	-
B4 (Green)	547 - 583 nm	Green	550 - 570 nm
B5 (Yellow)	600 - 620 nm	-	-
B6 (Red)	650 - 680 nm	Red	663 - 673 nm
B7 (RE)	697 - 713 nm	Red-Edge (RE)	713 - 723 nm
B8 (NIR)	845 - 885 nm	Near Infrared (NIR)	820 - 860 nm

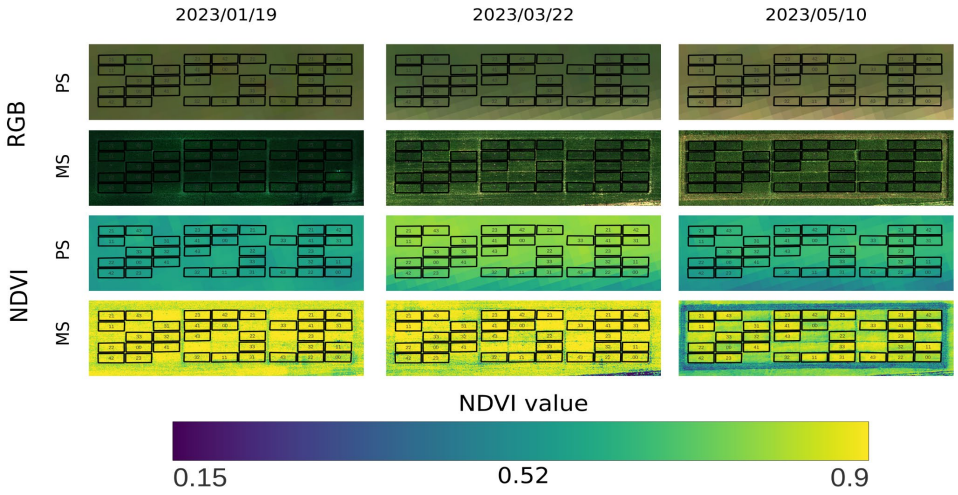


Figure S2. RGB and NDVI from PlanetScope and Micasense–M during drone acquisitions.

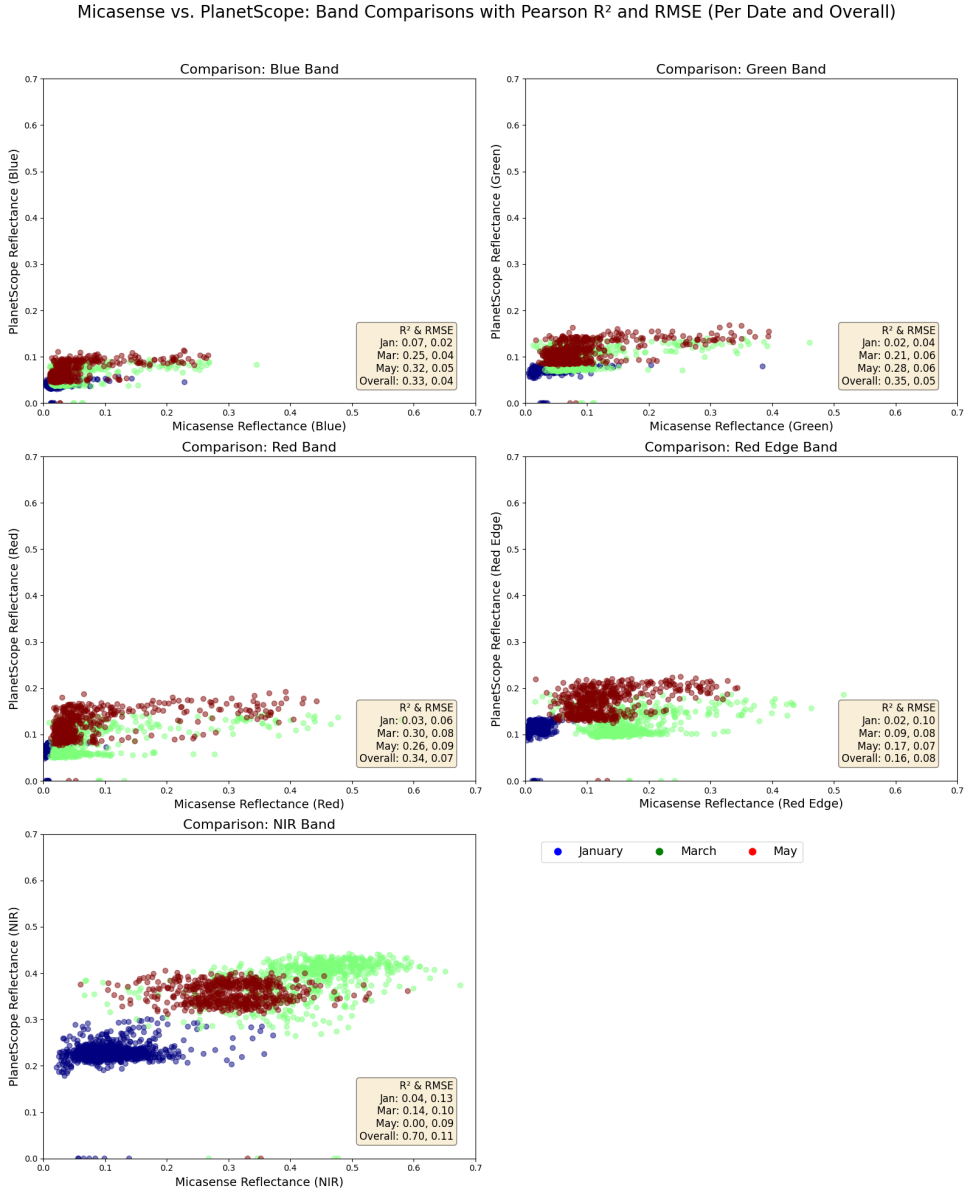


Figure S3. MicaSense and PlanetScope reflectances comparisons with Pearson R^2 and RMSE (per date and for the overall period).

Table S3. Comparison of MicaSense and PlanetScope NDVI Values and Rankings Across Multiple Dates for Different Treatments.

Date	Treatment	NDVI MS	NDVI PS	MS Rank	PS Rank
2023-01-09	Control	0.46	0.56	11	11
2023-01-10	P(i)+N(i)	0.53	0.57	6	10
2023-01-11	P(om)+N(i)	0.58	0.60	1	1
2023-01-12	P(om)+N(o)	0.52	0.58	7	6
2023-01-13	P(om)+N(om)	0.56	0.58	2	5
2023-01-14	P (Bm)+N(i)	0.52	0.59	8	4
2023-01-15	P (Bm)+N(o)	0.50	0.58	9	7
2023-01-16	P (Bm)+N(om)	0.54	0.59	4	2
2023-01-17	P(St)+N(i)	0.54	0.59	5	3
2023-01-18	P(St)+N(o)	0.56	0.57	3	9
2023-01-19	P(St)+N(om)	0.50	0.58	10	8
2023-03-12	Control	0.64	0.72	10	10
2023-03-13	P(i)+N(i)	0.68	0.74	3	7
2023-03-14	P(om)+N(i)	0.70	0.77	1	1
2023-03-15	P(om)+N(o)	0.64	0.75	9	6
2023-03-16	P(om)+N(om)	0.67	0.75	4	5
2023-03-17	P (Bm)+N(i)	0.66	0.75	6	4
2023-03-18	P (Bm)+N(o)	0.63	0.73	11	9
2023-03-19	P (Bm)+N(om)	0.67	0.76	5	3
2023-03-20	P(St)+N(i)	0.68	0.77	2	2
2023-03-21	P(St)+N(o)	0.66	0.73	7	8
2023-03-22	P(St)+N(om)	0.66	0.70	8	11
2023-10-05	Control	0.49	0.61	11	9
2023-10-05	P(i)+N(i)	0.56	0.61	1	8
2023-10-05	P(om)+N(i)	0.54	0.64	7	4
2023-10-05	P(om)+N(o)	0.54	0.64	8	5
2023-10-05	P(om)+N(om)	0.56	0.65	3	3
2023-10-05	P (Bm)+N(i)	0.55	0.63	4	7
2023-10-05	P (Bm)+N(o)	0.51	0.67	9	1
2023-10-05	P (Bm)+N(om)	0.55	0.64	6	6
2023-10-05	P(St)+N(i)	0.55	0.66	5	2
2023-10-05	P(St)+N(o)	0.51	0.59	10	11
2023-10-05	P(St)+N(om)	0.56	0.59	2	10

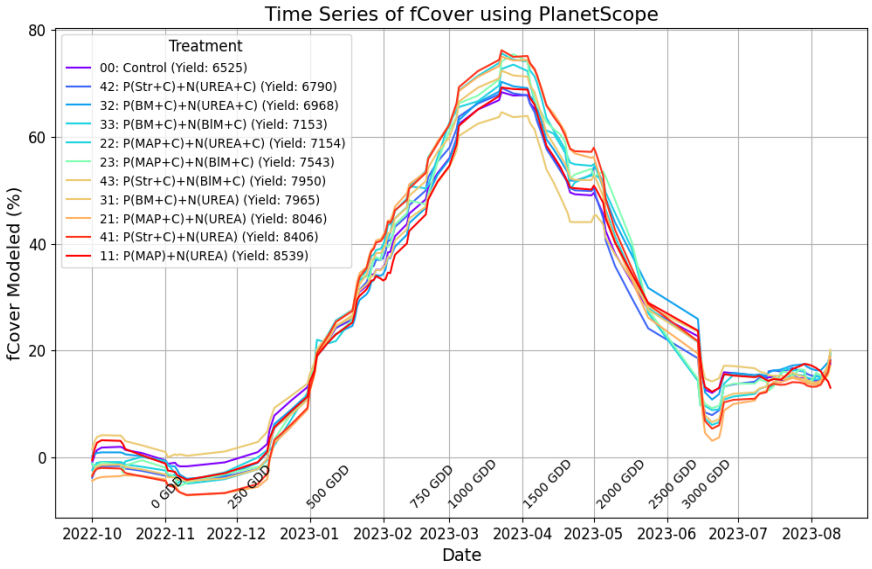


Figure S4. Time Series of fCover Modeled Using PlanetScope EVI Across Different Fertilization Treatments

Table S4. fCover prediction models for PlanetScope and Micasense RedEdge-M

PlanetScope			**RedEdge-M**		
Index	**RMSE**	**R^2**	**Index**	**RMSE**	**R^2**
EVI	10.15	0.68	NDVI	8.3	0.82
NDVI	11.31	0.61	RVI	8.6	0.81
RVI	11.84	0.57	MCARI	10.02	0.73
SeLI	11.85	0.57	EVI	11.3	0.67
WDVI	12.33	0.53	DVI	11.4	0.66