

	Crop	Platform name	Study Area (ha)	Application	Sensor/Spatial Resolution	Calibrat.	Altitude (m)	Total #
s U A S	Multi Rotor	Alm. Quadkit, 3DRobotics[7]	< 1	Water Status	MS ¹ /1.9 cm	✓	60	6
		Alm. Mikrokopter [8]	< 1	Water Status	IR sensor-MS	×	20	
		Alm. MD4-1000 [9] / [10]	1.45/ 2.5	Phenotyping	RGB ² /15 mm	NA	50	
		Pista. Phantom IV[11]	45	Height estimation	RGB/3.5 cm	NA	70	
		Alm. Solo 3DR[5]	~60	Floral Phenology	MS/2.6–5.2 cm	✓	60-120	
	Single Rotor	Alm. Benzin Acrobatic [12]	4	Water Status	TH ³ / 12 cm	✓	150	1
	Fixed-Wing	Alm. mX-SIGHT [13]	42	Water Status	TH/50 cm	×	370	2
		Pista. mX-SIGHT[14]	260	Water Status	TH/35 cm	✓	250	
Manned Aircraft	Alm.	Cessna [15]	5.5	Disease	HS ⁴ /30 cm, TH/40 cm	✓✓	550	9
	Alm.	Cessna [16]	5.5	Water Status	HS ⁴ /20 cm, TH/25 cm	✓✓	200	
	A/P	CERES Imaging [6]	16	Water Status	TH/ 0.6-1.5 m	✓	500-1k	
	Alm.	MASTER** [17]	1500	Water Status	TH/ 7.2 m	✓	11k	
	A/P	AVIRIS [18]	700	Water Status	HS/ 7.1 m	✓	8.5k	
	Alm.	CERES Imaging [5]	1700	Floral Phenology	MS/20 cm	✓	368	
	Alm.	NAIP* [19]	8000	Yield Prediction	MS/ 0.6 m	×	5k	
	Alm.	UAVSAR**** [20]	18000	Crop Separability	R ⁵ / 1.3 m	NA	12.5k	
	A/W/P	AVIRIS***/MASTER [21]	300,000	Water Status	HS/18 m, TH/36 m	✓✓	20k	
Satellites	A/P	Landsat-8 [6]	16	Water Status	MS/ 30m	✓	705k	5
	Pista.	Landsat-8 [22]	160	Salinity	MS/30 m, TH/100 m	✓✓	705k	
	Alm.	PlanetScope, Sentinel-2, Landsat[5]	1700	Floral Phenology	MS/3-30m	✓	LEO	
	Alm.	Landsat 5-7 [23]	2000	Water Status	MS/30 m, TH/120 m	✓✓	705k	
	Pista.	ALOS [24]	7000	Tree Distribution	MS/10 m	✓	692k	

* National Agriculture Imagery Program of United States Department of Agriculture

** MASTER (MODIS/ASTER)- Moderate Resolution Imaging Spectroradiometer (MODIS)/ Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER)

*** Airborne Visible/Infrared Imaging Spectrometer (AVIRIS)

**** Uninhabited Aerial Vehicle Synthetic Aperture Radar (UAVSAR)- Even though it is designed to work on UASs, currently, UAVSAR is mounted on a NASA Gulfstream III aircraft (C-20A/G-III) [25].

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|------------------|--|------------|
| 1- Multispectral | 2- Red-Green-Blue conventional cameras | 3- Thermal |
| 4- Hyperspectral | 5- Radar | |