

# Comparing Algae to Other Protein Crops

Plant	Average Biomass Yields (MT/ha/yr)	Oil Content (% dry mass)	Sugar/Starch Content (% dry mass)	Energy Content of Oil/Sugar/Starch (boe/1000ha/day)	Protein Content (% dry mass)
Soy	1-2.5	20%	18%	3-8	37%
Rapeseed	3	40%	n/a	22	23%
Palm	19	20%	n/a	63	15%
Jatropha	7.5-10	30-50%	n/a	40-100	24-28%
Corn	10-12	4%	75%	240-300	4-14%
Sugarcane	60-70	n/a	12-16%	230-370	3-4%
Microalgae	40-100+	25-50%+	15-25%	330-785+	25-60%+

SOURCE: NSF / MATT CARR, ABO