Northwest UAV
A GLOBAL COMPANY

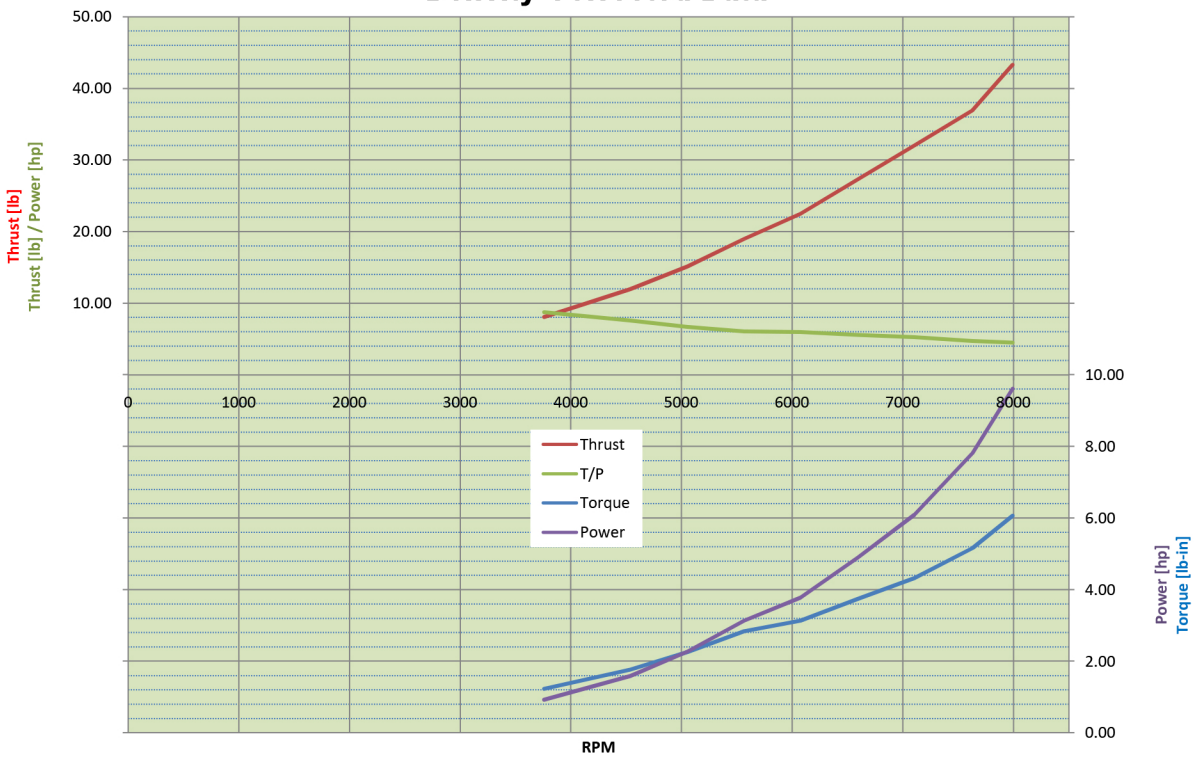
PROPELLER TEST RESULTS

DYNO #2

Prop	Xoar 22x10 2 blade solid wood			Temp	82.0	°F	Relative Humidity	34	%
Prop dia.	22.00	inches	# blades 2	Pressure	30.03	in Hg			
Operator	Chris P.						standard density	0.002377	slugs / ft^3
Date	2010-07-29	Time	15:26:36				test density (ρ)	**0.002284**	slugs / ft^3

		3760	4537	5055	5566	6076	6594	7107	7632	7993		
Density Corrected	power	0.92	1.59	2.26	3.13	3.78	4.89	6.09	7.81	9.61		hp
	torque	1.23	1.76	2.26	2.83	3.13	3.74	4.32	5.16	6.06		lb-ft
	thrust	8.07	11.98	15.11	18.99	22.48	27.28	32.01	36.96	43.30		lb
	T/P	8.75	7.58	6.70	6.08	5.96	5.58	5.26	4.73	4.51		lb / hp
	dB/T	9.22	6.22	5.68	4.70	4.11	3.51	3.05	2.70	2.42		dBC / lb
	dB	74.47	74.49	85.83	89.28	92.36	95.67	97.60	99.94	104.59		C band
	tip speed	0.32	0.39	0.44	0.48	0.52	0.57	0.61	0.66	0.69		Mach
	dB/tip speed	229.99	190.66	197.17	186.25	176.53	168.49	159.48	152.05	151.95		dBC / M

Density Corrected Data



NOTES

Density is calculated according to NBSIR 77-1278 using dry bulb temp, absolute pressure, and relative humidity.

Atmospheric conditions are @ McMinnville airport, Oregon from Weather Underground.