			œ	7	6	5	4	ω	2	_	1		
			Looks decent	Fast and cheap rebuild	Capable of carrying UGV and water bottle	Complies with AMA safety code	Components are protected	Minimize flight path deviation	Capable of traveling an extended distance	Capable of flight for extended period of time	Market Requirements	Product: UAS Subsystem: Airframe	
Upper Acceptable	Ideal	Lower Acceptable	1	3	3	9	9	9	9	9	Importance	Performance Measures	Units
N/A	75	40		<u> </u>	1				•	•	_	Battery life	Minutes
N/A	20	5							•	•	2	Lift-to-drag ratio	Unitless
1	1	0.2			•				•	•	ω	Motor/prop efficiency	Unitless
50	4	0			•				•	•	4	Airframe weight	Kilograms
30	15	10			•				•		ر ت	Average flight speed	Meters/second
20	10	N/A			•			•			6	Stall speed	Meters/second
-0.01	-0.05	-0.1						•			7	Spiral stability eigenvalue	Unitless
0.2	0.1	0									8	Static margin	Unitless
0.15	0.1	0.05									9	Cn,beta (yaw)	Unitless
0	-0.1	-0.15									10	CI,beta (roll)	Unitless
0	0	0					•				1	Number of components that fall off the plane	Unitless
0	0	0					•				12	Number of damaged components on landing	Unitless
0	0	0				•					13	Number of AMA safety code violations	Unitless
1	0.5	0.4			•						14	Lift coefficient	Unitless
12000	10000	8000			•						15	Storage volume	Cubic centimeter
4	0	0									16	Time to rebuild	Hours
10	10	5									17	Focus group ease of repair	1-10 scale
10	10	5									18	Focus group coolness rating	1-10 scale