

Experiment 8: Kites A and B flown simultaneously. The following observations of pull were made while the comparative behavior of the Kites in the air was being studied:-

Pull in Pounds.

Obs.	1st A	2nd B	3rd B	4th A	5th A	6th B
1st	48	30	60	50	35	40
2nd	30	40	50	45	30	45
3rd	60	35	40	40	25	60
4th	60	45	50	35	25	55
5th	50	30	55	40	25	40
6th	40	30	50	30	20	45
7th	45	25	45	30	20	50
8th	50	20	50	25	25	40
9th	50	15	55	20	45	35
10th	45	30	45	20	25	35
Sum.	10 Obs.	510	320	500	275	445
Av.	1	51.0	32.0	50.0	27.5	44.5

Field Notes: No decided difference of behavior observed between Kites A and B in the air, excepting that Kite B flew at a lower altitude than A, and has every indication of being heavier-flying kite than A, requiring more wind to sustain it. After the ninth observation in the sixth series (when a pull of 35 lbs. was obtained) Kite B came down of itself, leaving Kite A still flying. It was raised again and the tenth reading of pull was obtained (35 lbs.) after which Kite B came down again, Kite A remaining in the air. After Kite B had fallen for the second time a reading of wind-velocity showed 563 ft in 30 sec or 15.1 miles per hr., but it seems hardly possible that the wind was blowing at this rate when the Kite began to fall. So far as steadiness was concerned there was little to choose between Kites A and B. The impression has been created that Kite B is more sensitive to gusts than A, but if there is really any difference between them in this respect it is slight, and not nearly so noticeable as in the case of Kite C.