## Bulletin No.XXXVII

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For the Wright: Tt. =  $\frac{F \times V}{R} = \frac{83 \times 16}{0.675}$  1965 kilogrammeters or 26 H.P.

For the Veisin: Tt. = 127 X 17.50 3370 kilogrameters 0.66 or 45 H.P.

These two horse-powers are substantially those of the two motors of Wright and of Veisin. Finally it seems to us that it would be preferable to compare the usefulness between these of the acroplanes of different types, that is to say, the coefficient of utilization of an acroplane is the ratio of the utilized weights transferred to the total weights, multiplied by the speed of advance (which is propertional to the space traversed) and divided by the free effective power on the shaft of the motor and expressed in horse-power.

The formula would be then:-

 $U = \frac{Pu \times V}{Pt \times N}$ 

Let us apply this formula to the Wright and Voisin machines, we shall find:

U = 70 kgs. x 16 m 450 kgs x 26 H.P. 0.096 for the Wright and U = 140 kgs x 17 m 50 640 kgs x 45 H.P. = 0.085 for the Veisin

<u>Homarks:</u> We have taken 140 kgs as utilized weight in the Veisin, on account of the supporting chassis which it possesses (76 kilograms) and which would render inexact the comparison with the Wright if allowance for it is not made.