

Contents

	Page
I. Introduction	1
II. Description of the Experiments	2
III. Presentation of the Results obtained	3
IV. Methods for Estimation of E.H.P. of Fishing Boats	4
1. Estimation of Wave-making E.H.P.	4
2. Estimation of Wetted Surface Area	5
3. Estimation of Frictional E.H.P.	5
4. Estimation of Total E.H.P.	6
5. Examples and Comparison with other Methods	6
V. Conclusions and Acknowledgements.....	7

~ Charts ~

Fig. 1.	Body Plan and Stem and Stern Profiles for Parent Form of Standard Series	8
Fig. 2.	Sectional Area Curves of Standard Series	8
Fig. 3-14.	Contours of Wave-making Resistance Coefficient C_w , ($B/T=2.2$) ...	9-20
Fig. 15-26.	Contours of Wave-making Resistance Coefficient C_w , ($B/T=3.0$) ...	21-32
Fig. 27.	Contours of $E.H.P_w/100C_w(V/\sqrt{Lg})^3$	33
Fig. 28.	Contours of Wetted Surface Area Coefficient k_s	34
Fig. 29.	Curves of Wetted Surface Area Correction Coefficient k_3 , (correction for midship-section area coeft. β)	35
Fig. 30.	Contours of \sqrt{FL}	36
Fig. 31.	Contours of $E.H.P_f/S$	37
Fig. 32.	Curves of Corresponding Ship-Speed V' (in knots)	38
Fig. 33-37.	Curves of E.H.P. for five Fishing Boats	39-41

~ Tables ~

Table I. Table for E.H.P. Calculations	42
Table II. Table of Corresponding Ship-Speed V' (in knots)	43