

12352

Office of Current Intelligence
CIA/RR ER SC-61-1

Copy No.
16 January 1961

ESTIMATES OF PRODUCTION AND VALUE
OF NAVAL SHIPS PRODUCED BY THE SINO-SOVIET BLOC
1959

COMPUTATIONAL CENTER PROGRAM
RELEASE AS SANITIZED
1999



CENTRAL INTELLIGENCE AGENCY
Office of Research and Reports

~~TOP SECRET~~

~~TOP SECRET~~

ESTIMATES OF PRODUCTION AND VALUE
OF NAVAL SHIPS PRODUCED BY THE SINO-SOVIET BLOC
1959

~~TOP SECRET~~

~~TOP SECRET~~

FOREWORD

This report is the first in a series of annual reports on the production and value of naval ships produced in the Sino-Soviet Bloc. Subsequent reports will be expanded to include discussion of trends in production and comparative analysis of current production with that of previous years. The detailed nature of the information, which would have involved numerous source references for each of many estimates, makes the inclusion of source references infeasible, but source documentation for estimates is available in the files of this Office.

~~TOP SECRET~~

CONTENTS

	<u>Page</u>
Estimates of Production and Value of Naval Ships Produced by the Sino-Soviet Bloc, 1959.	1

Appendixes

Appendix A. Estimated Completions and Value of Naval Ships Produced by the Sino-Soviet Bloc, 1959.	3
Production of Naval Ships in the USSR	5
Production of Naval Ships in Communist China	22
Production of Naval Ships in Poland	28
Appendix B. Methodology	31

~~TOP SECRET~~

ESTIMATES OF PRODUCTION AND VALUE
OF NAVAL SHIPS PRODUCED BY THE SINO-SOVIET BLOC*
1959

During 1959 the Sino-Soviet Bloc completed more than 294 surface ships and 20 submarines, valued at US \$903,314,000. ** Of all these ships the USSR completed 222*** surface ships and 15 submarines, valued at \$770,774,000,*** or 85.3 percent of the total value of Sino-Soviet Bloc production. The value of the 15 submarines, of which 3 are believed to be nuclear powered, completed by the USSR is estimated at \$389,280,000, or 50.5 percent of the total value of the USSR production. Of the surface ships completed by the USSR, 3 were guided missile destroyers and the remainder smaller types. China completed over 52 surface ships and 5 submarines, valued at \$112,220,000, or 12.4 percent of the total value of the Sino-Soviet Bloc production. Poland completed 20 ships valued at \$20,320,000, or 2.3 percent of the total value of the Sino-Soviet Bloc production. Although some minor patrol craft may have been produced by other European Satellites, such production is negligible.

The value figures for naval ships produced by the Sino-Soviet Bloc are the estimated costs to produce similar ships in the US.

The volume and value of deliveries of Chinese Communist and Polish naval ships are believed to give a good indication of the magnitude of the current naval production program in these countries.

In the USSR, however, the value of deliveries of naval ships in 1959 considerably understates the current naval program. The value of completed surface ships is believed to approximate the same order of magnitude as that budgeted for such production. The magnitude of the current Soviet submarine program, however, would indicate expenditures far in excess of that apparent from the value of the few submarines completed in 1959.

* The estimates in this report represent the best judgment of this Office as of 1 December 1960.

** Dollar values are given in 1959 US dollars throughout this report. For a detailed listing of the naval ships produced in the Sino-Soviet Bloc during 1959 and their estimated value, see Appendix A. The ships listed under the heading Completions 1959 are considered to have been delivered by a shipyard, complete and ready for service, although these ships may not yet have been commissioned by the respective navies.

*** These totals include 6 auxiliaries valued at \$9,600,000, the basic ships of which probably were built in Hungary and completed either in Hungary or the USSR (see p. 18).

~~TOP SECRET~~

~~TOP SECRET~~

It is not possible to establish firmly the status of each of the submarine projects, but an evaluation of the information available would indicate that considerable progress has been made on a large number of these projects. The apparent effort that has gone into these projects would indicate a considerably larger expenditure of funds in 1959 than that indicated by the value of the submarines completed in 1959.

- 2 -

~~TOP SECRET~~

~~TOP SECRET~~

APPENDIX A

ESTIMATED COMPLETIONS AND VALUE
OF NAVAL SHIPS PRODUCED BY THE SINO-SOVIET BLOC
1959

~~TOP SECRET~~

BLANK PAGE

~~TOP SECRET~~

Year : 1959
 Country : USSR
 Category : Naval
 Type : SSN
 Class : Unidentified
 Project No.:

Displacement :
 Light ship :
 Surface vessel -- full load :
 Submarine -- surface condition, diving trim with maximum fuel:

Tons (Metric) : N.A.
 Tons (English)
 Length Over-all : N.A.
 Between perpendiculars:
 Beam :
 Draft :
 Propulsion :
 Horsepower :

Meters

Feet

Shipyard and Location	Completions 1959				US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced Through 1959	Remarks		
	January-June		July-December					Total	
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)					Light Ship Tons (English)
No. 402, Severodvinsk	1	N.A.	2	N.A.	3	N.A.	120,000	4	First submarine of series production believed completed in 1958. Cost estimate is based on US nuclear fleet type Skipjack-class...

~~TOP SECRET~~

~~TOP SECRET~~

Meters Feet

Year : 1959
 Country : USSR
 Category : Naval
 Type : SSB
 Class : G
 Project No.: (629 tentatively)

Displacement :
 Light ship :
 Surface vessel -- full load :
 Submarine -- surface condition, diving trim with maximum fuel:

Length :
 Over-all : N.A.
 Between perpendiculars :
 Beam :
 Draft :
 Propulsion :
 Horsepower :

Tons (Metric) : 1,950*
 Tons (English) : 2,600*

Shipyard and Location	Completions 1959						US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced Through 1959	Remarks
	January-June		July-December		Total				
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)			
No. 402, Severodvinsk	1	1,950	3	5,850	4	7,800		This class of probable SSB identified in fall 1959. The first unit believed completed early 1958. * Tonnage estimates shown here are based on assumption these submarines are larger than "Z-conversion"-class, both in respect to sail and to hull dimensions.	
No. 199, Komsomol'sk	1	1,950	2	3,900	2	3,900			
Total			5	9,750	6	11,700	8		

~~TOP SECRET~~

~~SECRET~~

Year : 1959
 Country : USSR
 Category : Naval
 Type : SS
 Class : F
 Project No. :

Displacement
 Light ship : 1,470
 Surface vessel -- full load : 1,450
 Submarine -- surface condition, diving trim with maximum fuel : 1,980

Length
 Over-all : 90.22
 Between perpendiculars : 8.23
 Beam : 27.00
 Draft : 5.49
 Propulsion : Diesel/Elec.
 Horsepower : 6,000/4,050

Tons (Metric) : 1,470
 Tons (English) : 1,450
 Meters : 90.22
 Feet : 296.00

Shipyard and Location	Completions 1959				US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced through 1959	Remarks		
	January-June		July-December						
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)					
No. 196, Leningrad	2	2,900	4	5,800	6*	8,700	114,840	8	Program began in Sudomekh early 1957. First submarine completed July 1958. * The sixth submarine completed in 1959, actually left the shipyard in late January 1960.

~~SECRET~~

Year : 1959
 Country : USSR
 Category : Naval
 Type : DDG
 Class : Kildin
 Project No.: 56M
 Displacement :
 Light ship :
 Surface vessel -- full load : 2,390
 Submarine -- surface condition, diving trim with maximum fuel: 3,560
 Length :
 Over-all : 126.49
 Between perpendiculars: : 12.65
 Beam : 41.50
 Draft (Max.) : 4.88
 Propulsion : 2 Sets Geared Turbines
 Horsepower : 72,000
 Tons (Metric) :
 Tons (English) :
 US Cost of Construction in Thousand Current Dollars : 26,672
 Cumulative Total of Ships Produced Through 1959 : 4
 Remarks : Tentatively associated with shipyard hull No. 1210.

Shipyard and Location	Completions 1959				US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced Through 1959	Remarks	
	January-June		July-December					Total
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)				
No. 445, Nikolayev	1	2,350	1	2,350	26,672	4	Tentatively associated with shipyard hull No. 1210.	

Year : 1959
 Country : USSR
 Category : Naval
 Type : DDG
 Class : Krupnyy
 Project No.: 57/57B

Displacement :
 Light ship : 3,010
 Surface vessel -- full load : 4,170
 Submarine -- surface condition, diving trim with maximum fuel:

Length : 143.26 Meters
 Beam : 13.41
 Draft : 5.49
 Propulsion : 2 Sets Geared Turbines
 Horsepower : 80,000

Tons (Metric) : 3,010
 Tons (English) : 2,960
 Tons (English) : 4,100
 Feet : 470.00

Completions 1959

Shipyard and Location	January-June		July-December		Total		US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced Through 1959	Remarks
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)			
No. 445, Nikolayev	1	2,960	1	2,960	2	5,920	67,192	3	Tentatively associated with shipyard hull No. 1461.
No. 190, Leningrad	1	2,960	1	2,960	2	5,920			
Total									

~~SECRET~~

Year : 1959
 Country : USSR
 Category : Naval
 Type : MSF
 Class : T-58
 Project No.:

Displacement :
 Light ship : 670
 Surface vessel -- full load : 850
 Submarine -- surface condition, diving trim with maximum fuel:

Length : 67.06
 Over-all : 220.00
 Between perpendiculars:
 Beam : 9.14
 Draft : 30.00
 Propulsion : 2 Diesels
 Horsepower : 4,000

Tons (Metric)
 Tons (English)
 Meters
 Feet

Shipyard and Location	Completions 1959				US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced Through 1959	Remarks	
	January-June		July-December					Total
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)				
Izhora, Leningrad	5	3,300	5	3,300	6,600	14	Program began in 1958 with completion of 4 ships.	

~~SECRET~~

~~SECRET~~

Year : 1959
 Country : USSR
 Category : Naval
 Type : MSI
 Class : Sasha
 Project No. :

Displacement :
 Light ship : 193
 Surface vessel -- full load : 254
 Submarine -- surface condition, diving trim with maximum fuel:

Tons (Metric) : 193
 Tons (English) : 250

Length :
 Over-all : 45.72
 Between perpendiculars : 6.10
 Beam : 1.98
 Draft : 2 Diesels
 Propulsion : 2,600
 Horsepower : 2,600

Meters : 45.72
 Feet : 150.00

Shipyard and Location	Completions 1959						US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced through 1959	Remarks
	January-June		July-December		Total				
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)			
No. 341, Shcherbakov	7	1,330	7	1,330	14	2,660	44	Program began in 1957 with completion of 12 ships.	
Khabarovsk					1	190			
Kerch					1	190			
Total	7	1,330	9	1,710	16	3,040			

~~SECRET~~

~~TOP SECRET~~

Year : 1959
 Country : USSR
 Category : Naval
 Type : PC
 Class : SO-1
 Project No. :
 Displacement :
 Light ship : 137
 Surface vessel -- full load : 163
 Submarine -- surface condition, diving trim with maximum fuel:

Tons (Metric) : 137
 Tons (English) : 135
 Length Overall : 39.62
 Between perpendiculars : 4.95
 Beam : 160
 Draft : 1.80
 Propulsion : 3 Diesels
 Horsepower : 3,600
 Meters : 39.62
 Feet : 130.00

Shipyard and Location	Completions 1959						US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced Through 1959	Remarks
	January-June		July-December		Total				
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)			
No. 340, Zelendolsk	12	1,620	12	1,620	24	3,240		Program began in 1957 with completion of 5 ships.	
Khabarovsk	8	1,080	8	1,080	16	2,160			
Total	20	2,700	20	2,700	40	5,400	60		

~~TOP SECRET~~

Year : 1959
 Country : USSR
 Category : Naval
 Type : PT
 Class : P-6, P-10
 Project No.:
 Displacement :
 Light ship : 61
 Surface vessel -- full load : 74
 Submarine -- surface condition, diving trim with maximum fuel:
 Length :
 Over-all : 25.30
 Between perpendiculars :
 Beam : 6.10
 Draft : 1.68
 Propulsion :
 Horsepower : 4,800 (P-6); 2,400 (P-10, on diesels.
 Drive comprises 2 diesels and 2 gas turbines)

Shipyard and Location	Completions 1959				US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced Through 1959	Remarks	
	January-June		July-December					Total
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)				
No. 5, Leningrad	10	600	10	600	1,200	10 P-6, 10 P-10		
Yuzhnaya Tochka, Feodosiya	10	600	10	600	1,200	20 P-6		
Bystroyvi, Vladivostok	10	600	10	600	1,200	20 P-6		
Total	30	1,800	30	1,800	3,600	N.A.		

~~SECRET~~

Year : 1959
 Country : USSR
 Category : Naval
 Type : PTC
 Class : Mo-VI
 Project No.:

Displacement :
 Light ship :
 Surface vessel -- full load :
 Submarine -- surface condition, diving trim with maximum fuel:

Length :
 Beam :
 Draft :
 Propulsion :
 Horsepower :

Tons (Metric) : 61
 Tons (English) : 60
 Tons (English) : 73

Meters : 25.30
 Feet : 83.00

Seen perpendiculars :
 Beam : 6.10
 Draft : 1.68
 Propulsion : 3 Diesels or 4 Diesels
 Horsepower : 3,600 or 4,800

Shipyard and Location	Completions 1959					US Cost of Construction Thousand Dollars	Cumulative Total of Ships Produced Through 1959	Remarks
	January-June		July-December		Total			
	Num- ber	Light Ship Tons (English)	Num- ber	Light Ship Tons (English)	Light Ship Tons (English)			
No. 5, Leningrad	10	600	10	600	1,200		Program began in 1957 with completion of 5 units from No. 5, Leningrad.	
Sosnovka	12	720	13	780	1,500			
Total	22	1,320	23	1,380	2,700	100		

~~SECRET~~

Year : 1959
 Country : USSR
 Category : Naval
 Type : PGMG
 Class : OSA
 Project No.:

Displacement :
 Light ship : 152
 Surface vessel -- full load : 203
 Submarine -- surface condition, diving trim with maximum fuel:

Length :
 Over-all : 42.67
 Between perpendiculars : 8.13
 Beam : 1.28
 Draft : 4.21
 Propulsion : 4 Diesels
 Horsepower : 4,800

Tons (Metric) : 152
 Tons (English) : 200

Meters : 42.67
 Feet : 140.00

Completions 1959

Shipyard and Location	Completions 1959				US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced Through 1959	Remarks	
	January-June		July-December					Total
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)				
No. 5, Leningrad	2	300	2	300	3,600	2	Program began in early 1959. First ship completed August 1959.	

Year : 1959
 Country : USSR
 Category : Naval
 Type : AS
 Class : DON
 Project No. :

Displacement
 Light ship : 6,100
 Surface vessel -- full load : 9,650
 Submarine --- surface condition,
 diving trim with maximum fuel:

Tons (Metric) : 6,100
 Tons (English) : 6,000
 Length Over-all : 137.16
 Between perpendiculars : 137.16
 Beam : 16.73
 Draft : 7.52
 Propulsion : 2 Diesels
 Horsepower : 14,000
 Meters : 137.16
 Feet : 450.00

Completions 1959

Shipyard and Location	January-June		July-December		Total	US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced through 1959
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)			
No. 445, Nikolayev	1	6,000	1	6,000	6,000	35,250	3

Program began early 1956.
 First ship (PT V-53) com-
 pleted December 1957.

~~SECRET~~

Year : 1959
 Country : USSR
 Category : Naval
 Type : LSI
 Class : MP-2
 Project No.:

Displacement
 Light ship : 610
 Surface vessel -- full load :
 Submarine -- surface condition,
 diving trim with maximum fuel:

Tons (Metric) : 610
 Tons (English) : 600
 Length Over-all : 56.39
 Between perpendiculars : 185.00
 Beam : 7.92
 Draft : 26.00
 Propulsion :
 Horsepower :

Shipyard and Location	Completions 1959				US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced through 1959	Program began in 1956. 18 ships completed to end of 1958.	
	January-June		July-December					Total
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)				
Vyborg	3	1,800	3	1,800	3,600	24		

~~SECRET~~

Meters Feet
 : :
 72.69 238.50

Length
 Over-all :
 Between perpendiculars :
 Beam :
 Draft :
 Propulsion :
 Horsepower :

Tons (Metric) Tons (English)
 : :
 810 800
 1,910 1,800

Displacement :
 Light ship :
 Surface vessel -- full load :
 Submarine -- surface condition, diving trim with maximum fuel:

Year : 1959
 Country : USSR
 Category : Naval
 Type : ISC
 Class : MP-6
 Project No.:

Shipyard and Location	Completions 1959				US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced Through 1959	Remarks	
	January-June		July-December					Total Light Ship Tons (English)
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)				
Hungary	3	2,400	3	2,400	4,800	6	The basic ship is believed Hungarian cargo ship construction and completed either in Hungary or USSR as an ISC. First ships appeared in 1959.	

Year : 1959
 Country : USSR
 Category : Naval
 Type : LSM
 Class : MP-8
 Project No.:

Displacement : 914
 Light ship
 Surface vessel -- full load
 Submarine -- surface condition,
 diving trim with maximum fuel

Length : 74.68
 Over-all : 245.00
 Between perpendiculars :
 Beam : 12.19
 Draft : 40.00
 Propulsion :
 Horsepower :

Tons (Metric) : 914
 Tons (English) : 900

Meters : 74.68
 Feet : 245.00
 40.00

Shipyard and Location	Completions 1959				US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced Through 1959	Remarks	
	January-June		July-December					Total
	Number	Light Ship Tons (English)	Number	Light Ship Tons (English)				
Baltic Area (Possibly Vyborg)	4	3,600	5	4,500	8,100	9	First ships of this class observed in 1959.	

~~SECRET~~

Year : 1959
 Country : USSR
 Category : Naval
 Type : LCU
 Class : MP-10
 Project No.:
 Displacement :
 Light ship : 152
 Surface vessel -- full load :
 Submarine -- surface condition, diving trim with maximum fuel:
 Length Over-all : 38.40
 Between perpendiculars :
 Beam :
 Draft :
 Propulsion :
 Horsepower :
 Tons (Metric) : 152
 Tons (English) : 150
 Meters : 38.40
 Feet : 126.00

Shipyard and Location	Completions 1959						US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced since 1959	Remarks
	January-June		July-December		Total				
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)			
Black Sea Area	6	900	6	900	12	1,800	1,620	12	

SECRET

SECRET

Year : 1959
 Country : USSR
 Category : Naval
 Type : LCU
 Class : MP-SMB-1
 Project No.:

Displacement
 Light ship : 305
 Surface vessel -- full load : 538
 Submarine -- surface condition,
 diving trim with maximum fuel:

Meters : 48.20
 44.40
 6.50
 2.00
 2 Diesels
 600

Tons (Metric)
 305
 538

Tons (English)
 300
 530

Length
 Over-all : 158.14
 Between perpendiculars : 145.68
 Beam : 21.33
 Draft : 6.56
 Propulsion :
 Horsepower :

Shipyard and Location	Completions 1959				US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced Through 1959	Remarks	
	January-June		July-December					Total
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)				
Black Sea Area	6	1,800	6	1,800	3,600	12	Program began in 1959.	

SECRET

~~TOP SECRET~~

Year : 1959
 Country : Communist China
 Category : Naval
 Type : Submarine
 Class : W
 Project No.: 613

Displacement :
 Light ship :
 Surface vessel -- full load :
 Submarine -- surface condition, diving trim with maximum fuel :

Tons (Metric) : 762
 Tons (English) : 750

Length :
 Over-all :
 Between perpendiculars :
 Beam :
 Draft :
 Propulsion : Diesel/Electric
 Horsepower : 3,650/3,755

Meters : 75.44
 Feet : 247.50

Shipyard and Location	Completions 1959					US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced Through 1959	Remarks
	January		July-December		Total			
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)	Light Ship Tons (English)			
Kiangnan, Shanghai	1	750	2	1,500	3	2,250	Hulls 11 through 13.	
Wuchang, Wuchang			2	1,500	2	1,500	Hulls 3 through 4.	
Total	<u>1</u>	<u>750</u>	<u>4</u>	<u>3,000</u>	<u>5</u>	<u>3,750</u>	<u>15</u>	

~~TOP SECRET~~

Year : 1959
 Country : Communist China
 Category : Naval
 Type : Minesweeper
 Class : T-43
 Project No.: 254-M

Displacement :
 Light ship : 508
 Surface vessel -- full load : 711
 Submarine -- surface condition, diving trim with maximum fuel:

Length :
 Over-all : 60.05 Meters
 Between perpendiculars: 8.99 Meters
 Beam : 29.50 Meters
 Draft : 2.43 Meters
 Propulsion : 2 Diesels
 Horsepower : 4,400

Shipyard and Location	Completions 1959				US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced Through 1959	Remarks	
	January-June		July-December					Total
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)				
Whampoa Naval Dockyard, Canton	2	1,000	2	1,000	8,200	8		

~~TOP SECRET~~

Year : 1959
 Country : Communist China
 Category : Naval
 Type : PTF (Fast Patrol Boat)
 Class : Shanghai
 Project No. :
 Displacement : 100
 Light ship : 106
 Surface vessel -- full load : 98
 Submarine -- surface condition, diving trim with maximum fuel : 104
 Length :
 Over-all : 36.58
 Between perpendiculars : 120.00
 Beam : 5.49
 Draft : 1.62
 Propulsion : 4 Diesels
 Horsepower : 4,800
 Tons (Metric) :
 Tons (English) :
 Meters :
 Feet :

Shipyard and Location	Completions 1959				US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced Through 1959	Remarks	
	January-June		July-December					Total
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)				
International, Shanghai	2	196	2	196	3,400	4		

~~TOP SECRET~~

~~TOP SECRET~~

Year : 1959
 Country : Communist China
 Category : Naval
 Type : Motor Torpedo Boat
 Class : P 6
 Project No.: 183

Displacement : 61
 Light ship : 74
 Surface vessel -- full load :
 Submarine -- surface condition, diving trim with maximum fuel:

Tons (Metric) : 61
 Tons (English) : 73

Length Over-all : 25.30
 Between perpendiculars : 6.10
 Beam : 1.68
 Draft : 4 Diesels
 Propulsion : 4,800
 Horsepower

Meters : 25.30
 Feet : 83.00

Completions 1959

Shipyard and Location	January-June		July-December		Total	US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced through 1959
	Number	Light Ship Tons (English)	Number	Light Ship Tons (English)			
	8	480	8	480	960	11,520	64
Total all areas							

~~TOP SECRET~~

~~TOP SECRET~~

Year : 1959
 Country : Communist China
 Category : Naval
 Type : Motor Gun Boat
 Class : Swatow
 Project No.:

Displacement : Light ship
 Surface vessel -- full load :
 Submarine -- surface condition,
 diving trim with maximum fuel:

Tons (Metric) : 61
 Tons (English) : 73

Length : Over-all : 25.30
 Between perpendiculars : 6.10
 Beam : 1.68
 Draft : 4 Diesels
 Propulsion : 4,800
 Horsepower :

Meters : 25.30
 Feet : 83.00

Shipyard and Location	Completions 1959						US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced Through 1959	Remarks
	January-June		July-December		Total				
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)			
Total all areas	15	900	15	900	30	1,800	21,600	60	Possibly 25 to 30 units transferred to North Vietnam

~~TOP SECRET~~

Meters Feet

Year : 1959
 Country : Communist China
 Category : Naval
 Type : Misc Small Naval
 Class : Vessels
 Project No. :
 Displacement : Light ship
 Surface vessel -- full load :
 Submarine -- surface condition,
 diving trim with maximum fuel:

Tons (Metric) Tons (English)
 Length Over-all :
 Between perpendiculars :
 Beam :
 Draft :
 Propulsion :
 Horsepower :

Completions 1959

Shipyard and Location	January-June		July-December		Total	US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced through 1959	Remarks
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)				
Total all areas	N.A.	1,300	N.A.	1,300	2,600	12,500	N.A.	

~~TOP SECRET~~

~~TOP SECRET~~

~~SECRET~~

Meters Feet

Year : 1959
 Country : Poland
 Category : Naval
 Type : Patrol/Minesweeper
 Class : T-361 and S-361
 Project No. :
 Displacement :
 Light ship : 36
 Surface vessel -- full load : 41
 Submarine -- surface condition, diving trim with maximum fuel:

Shipyard and Location	Completions 1959				US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced Through 1959	Remarks	
	January-June		July-December					Total
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)				Light Ship Tons (English)
North (Polnocna), Gdansk	6	210	6	210	420	1,920	N.A. Possibly for export to the USSR.	

~~SECRET~~

Meters Feet
 28.04 92.00
 1.84 6.05

Length Over-all :
 Between perpendiculars :
 Beam :
 Draft :
 Propulsion :
 Horsepower :

Tons (Metric) (English)

61 71

Displacement :
 Light ship :
 Surface vessel -- full load :
 Submarine -- surface condition, diving trim with maximum fuel :

Country : Poland
 Category : Naval
 Type : MSB (Minesweeping Boat)
 Class : TR-40
 Project No. :

Completions 1959

Shipyard and Location	January-June		July-December		Total		US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced Through 1959	Remarks
	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)	Num-ber	Light Ship Tons (English)			
	ber	Tons (English)	ber	Tons (English)	ber	Tons (English)			
Stogi, River Yard, Gdansk	2	120	2	120	4	240	2,000	N.A.	

~~SECRET~~

Year : 1959
 Country : Poland
 Category : Naval
 Type : Minesweeper
 Class : T-43
 Project No.:

Displacement	Tons		Length	Meters	Feet
	(Metric)	(English)			
Light ship	508	500	Over-all	60.05	197.00
Surface vessel -- full load	711	700	Between perpendiculars:	55.78	183.00
Submarine -- surface condition, diving trim with maximum fuel:			Beam	8.99	29.50
			Draft	2.35	7.70
			Propulsion	2 Diesels	
			Horsepower	4,400	

Shipyard and Location	Completed in 1959			US Cost of Construction in Thousand Current Dollars	Cumulative Total of Ships Produced Through 1959	Remarks
	January-June	July-December	Total			
Paris Commune, Gdynia	2	2	4	16,400	11	Total construction program possibly consists of 12 ships.
	Light Ship Tons (English)	Light Ship Tons (English)	Light Ship Tons (English)			
	1,000	1,000	2,000			

~~SECRET~~

~~TOP SECRET~~

APPENDIX B

METHODOLOGY

The figures on volume in Appendix A were derived from a careful analysis of all-source information, order-of-battle estimates, and finished intelligence

The dollar value of ships has been estimated in several ways. When similar ships have been built in the US, their costs per ton of light ship displacement have been applied to production in the Sino-Soviet Bloc. When costs of other types of ships are not available, a cost estimate is made by using known costs of US ships with similar complexity of design and construction.

~~TOP SECRET~~