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QUARTERLY ESTIMATE OF PRODUCTION OF AIRCRAFT IN THE SINO-SOVIET BLOC OCTOBER-DECEMBER 1958

> Office of Research and Reports CENTRAL INTELLIGENCE AGENCY

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FOREWORD

This publication is the fifteenth in a series issued on a quarterly basis summarizing production of aircraft in the Sino-Soviet Bloc. The estimates presented are issued to satisfy the request of consumers for the most recent estimates of production of aircraft in the Bloc and are intended to supersede those estimates contained in previous ORR publications. Differences between the present estimates and past estimates result

from more recent intelligence information.

No interagency coordination has been attempted,

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QUARTERLY ESTIMATE OF PRODUCTION OF AIRCRAFT IN THE SINO-SOVIET BLOC **OCTOBER-DECEMBER** 1958*

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1. Highlights in 1958.

Activity during 1958 in the aircraft industry of the Sino-Soviet Bloc has been highlighted by the probable phase-out of production of known heavy jet bombers and known medium jet bombers in the USSR.** On the basis of information currently available, it still is estimated that production of the Bigon (Mya-4) heavy bomber is being phased out at Moscow/Fili Airframe Plant No. 23.*** The current trend of evidence regarding production of the Badger (Tu-16) medium jet bomber at Kazan' Airframe Plant No. 22 and at Kuybyshev Airframe Plant No. 1 suggests that both of these plants are terminating their program for production of Badger aircraft.**** Although at least one new type of large, heavy bomber, the Bounder, is known to have been developed in the USSR, there is no firm evidence to suggest just what type of aircraft may replace the Bison or Badger in series production at Moscow/Fili Airframe Plant No. 23, Kazan' Airframe Plant No. 22, and Kuybyshev Airframe Plant No. 1.

The most significant event of the year probably concerns the appearance in August of a new type of large, heavy bomber, the Bounder, at Moscow/Fili Airframe Plant No. 23. 1/† There is no evidence as yet that the aircraft is in series production. Another probably new type of large aircraft, as yet unidentified, has been noted during 1958 Speculations as to the identity of this aircraft range from a greatly improved Bison to the

the identity of this aircraft range from a greatly improved Bison to the Bounder or to an entirely different and new type of aircraft.

* The estimates and conclusions in this publication represent the best judgment of this Office as of 1 January 1959.

** Estimated production of aircraft in the Sino-Soviet Bloc from 1955 through 1958 is given by number in Table 1, p.10, below, and by airframe weight in Table 2, p.11, below. Estimated production of aircraft in the USSR from 1955 through 1958 is given by number in Table 3, p, 12, below, and by airframe weight in Table 4, p.13, below. For comparative purposes, US military acceptance figures from 1955 through 1958 are given by number in Table 6, p. 15, below, and by airframe weight in Table 7, p. 16, below. For additional comparison, production of combat aircraft in the USSR from 1955 through 1958 is compared with that in the US by number in Figure 1, inside back cover, and by airframe weight in Figure 2, inside back cover.

*** For descriptions and illustrations of all Soviet aircraft mentioned in this report, see the <u>Gharacteristics and Performance Handbook</u>, <u>USSR Aircraft issued in January 1958 by the Assistant Chief of Staff/</u> Intelligence and the Office of Naval Intelligence, US Navy, SECRET. Supplementary sheets have been added to this handbook. **** Estimated cumulative production of selected Soviet aircraft, including the Badger, through 1958 is given in Table 5, p. 14, below. Estimates of monthly, quarterly, and cumulative production at selected plants in the Sino-Soviet Bloc are given in Table 10, p. 20, below.

† For serially numbered source references, see the Appendix.

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The most important development during 1958 in the field of production of transport aircraft has involved the speed with which the Coot (II-18) four-engine turboprop transport has been produced in the USSR and has entered scheduled airline service. Series production of this aircraft is estimated to have started at Moscow Airframe Plant No. 30 during the third quarter of 1957, and several Coot aircraft have appeared on scheduled airline routes during the fourth quarter of 1958.

Production of the Cat (An-10, An-10A) four-engine turboprop civil transport and its military version, the An-12, now is believed well under way in the USSR after several delays. Recent information suggests that the An-10 or An-10A may have begun scheduled airline service in December 1958, and it is probable that the An-12 has been in use by the military services since late autumn of 1958.

Although it was not expected that the USSR would produce many of the Camel (Tu-104, Tu-104A) twin-engine jet transports, production has continued at least in 1 Soviet airframe plant during 1958 and probably in 2 plants. It now seems probable that production of a later model, the Tu-104B, will continue.

Very little new information concerning production of fighter aircraft in the Sino-Soviet Bloc became available during 1958. Perhaps the most noteworthy event in the field of production of fighter aircraft occurred in July 1958 in the USSR when three Fishbed aircraft were photographed on the plant airfield at Tbilisi Airframe Plant No. 31. 2/ Acquisition of this photograph confirmed previous estimates of the type of new Mikoyan-designed fighter aircraft with which the Tbilisi plant was concerned. It also is of interest that series production of the Farmer (MIG 19) jet fighter in Czechoslovakia during 1958 has failed to materialize.

Significant events in the field of production of miscellaneous aircraft in the Sino-Soviet Bloc include the identification of Rostov Airframe Plant No. 168 in the USSR as a facility producing Hare (Mi-1 or Mi-3) helicopters. A new turbine-powered helicopter, the Hook (Mi-6), was displayed in the USSR during 1958, but there is as yet no evidence of series production.

Except for the USSR, Communist China, of all the countries of the Sino-Soviet Bloc, made the greatest progress in production of aircraft during 1958. With virtually no aircraft industry before 1957, China already is producing a substantial portion of Bloc aircraft outside the USSR.

2. Production in the USSR, Fourth Quarter, 1958.

a. Bombers.

Only 17 observations of Moscow/Fili Airframe Plant No. 23 during the fourth quarter of 1958 have been reported. On the basis of these observations, it is estimated that 2 (possibly only 1) Bison aircraft were produced in October, none in November, and 1 (possibly 2) in December. Therefore, cumulative production of the Bison at

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Moscow/Fill Airframe Plant No. 23 as of 1 January 1959 is estimated to be 95* aircraft. This estimate is believed to be reliable within plus or minus 6 aircraft. The plant still is believed to be phasing out production of the Bison. Production rates through 1958 continue to be low and erratic.

Bounder, a new large jet bomber, was observed and photographed several times at Moscow/Fill Airframe Plant No. 23 during the period from 27 August through 15 September 1958. Between 15 September and 26 September 1958, the Bounder aircraft disappeared from view. On 12 November 1958, however, the fuselage of a Bounder aircraft was sighted on 3 barges being towed along the Moscow River. <u>3</u>/ The next day a fuselage estimated to be 200 feet in length was on barges at Ramenskoye, the site of a flight testing institute of the Soviet Air Force.

The estimate of production of the Bear (Tu-95) heavy turboprop bomber at Kuybyshev Airframe Plant No. 18 remains as stated in the last publication of this series. During the fourth quarter of 1958 there became available no information which would change this estimate in any way.

Production of the Badger medium jet bomber at Kazan' Airframe Plant No. 22 now is estimated to have ceased by the end of 1958, and production at Kuybyshev Airframe Plant No. 1 probably will cease some time during the first half of 1959.** Reanalysis

shows that the Mazan plant probaply reached its peak rate of production much earlier than previously estimated. It now is believed that a minimum of 238 Badger aircraft were produced at this facility in 1955, indicating that the peak rate of 20 aircraft per month was attained early in 1955. 4/ As a result, approximately 80 more Badger aircraft now are estimated to have been produced at Kazan' Airframe Plant No. 22 than had been estimated previously.

During the fourth quarter of 1958 there became available no collateral information which would substantiate a phase-out of Badger aircraft at Kazan' Airframe Plant No. 22. The estimated phase-out still is based largely on the reduced number of possible delivery flights and test flights of Tu-16 aircraft from Kazan'. Only one possible Tu-16 aircraft has been noted on a delivery flight from Kazan' since September

* Analysis of information received after publication of the last estimate in this series of publications indicates that 3 Bison heavy jet bombers were produced at Moscow/Fili Airframe Plant No. 23 during the second quarter of 1958 instead of the 4 previously estimated. Two Bison aircraft are believed to have been produced in July, one in August, and none in September.

** This estimate represents a slight change from the estimates presented during the third quarter of 1958. It should be noted, however, that it is very difficult on the basis of available information to determine the exact date when production ceases. It is possible, therefore, that these estimates may be revised again in the future.

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1958. Five test flights of probable Tu-16 aircraft have been noted from this location since August 1958.

Production of the Badger at Kuybyshev Airframe Plant No. 1 still was estimated to be phasing out in the fourth quarter of 1958. An arbitrary change has been made in the estimated date by which production probably will cease. This change has been made in order to reflect a more conservative estimate until additional information is received, and the change allows continued production into the spring of 1959. It still is possible, however, that production ceased by the end of 1958.

As in the case of Kazan' Airframe Plant No. 22, no information supporting a probable phase-out of Badger aircraft at Kuybyshev Airframe Plant No. 1 has become available during the past 3 months.

Although the number of possible delivery flights noted from Kuybyshev has not been reduced so noticeably as the number noted from Kazan' in recent months, a reduction still is very apparent.

Probably the most significant fact pertaining to a possible phaseout of production of the Badger at Kuybyshev Airframe Plant No. 1 concerns the virtual cessation of test flight activity noted from this location. No aircraft have been reported on possible test flights from Kuybyshev since August 1958. Only 1 such flight was noted in July 1958 and 1 in June 1958.

b. Transports.

The most important change made in the current estimate of production of transport aircraft in the USSR from the estimate presented for the third quarter of 1958 involves estimated production of the Coot at Moscow Airframe Plant No. 30.

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been necessary to revise the estimatea scneaule of production to reflect a faster buildup. It now is estimated that approximately 44 Coot aircraft had been produced at Moscow Airframe Plant No. 30 by the end of the third quarter of 1958 rather than the 35 previously estimated. Cumulative production of the Coot as of the end of 1958 is believed to be about 60 aircraft. The speed with which this aircraft has gone into series production and into scheduled service with the Civil Air Fleet (GVF) is very interesting in at least two respects. First, from what is known of the final assembly area at Moscow Airframe Plant No. 30, it is apparent that difficulties should be encountered in the establishment of an efficient assembly line for so large an aircraft. Therefore, it is probable, that the rapid buildup noted so far will not continue, and it also is possible that another Soviet airframe plant may enter, or already may have entered, the program for production of the Coot. Second, it is interesting to note that the initiation of series production of the Coot apparently proceeded much more rapidly than did series production of rival turboprop transports designed by Antonov.

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The Khar'kov plant now is

known to have produced approximately 9 Gamel aircraft in 1957, rather than 12, and to have reached a production rate of 2 Camel aircraft per month in January 1958. Information still is not available on the current activities of the other known production site of the Camel, Omsk Airframe Plant No. 166. It is believed, however, that the Omsk plant probably still is engaged in limited production of the Camel.

Production of the Cat turboprop transport appears to be well under way at Voronezh Airframe Plant No. 64.

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5/ Twelve Cat aircraft were sighted on the airfield of the Voronezh plant on 4 December 1958. 6/ Production of the An-12, a military version of the Cat, at Irkutsk Airframe Plant No. 39 is believed to be proceeding on schedule.

The status of production of the Cleat (Tu-114, Tu-114D) is not yet clear. Until further information becomes available, it is estimated that a few Tu-114D models are being constructed at Kuybyshev Airframe Plant No. 18. It is possible that these actually represent modified Bear aircraft rather than new Tu-114D aircraft.

The previous estimate of production of the Cott (An-2) piston transport was revised

It is believed now that approximately 1,600 Colt aircraft were produced at Kiev Airframe Plant No. 473 by May 1958 7/ and that production stopped by the end of the third quarter of 1958. The Colt is believed to have been replaced in series production at this plant by the new Antonov-designed Clod (An-14) piston transport.

c. Fighters.

During the fourth quarter of 1958 an extremely limited amount of intelligence information concerning Soviet production of jet fighter aircraft was received. As a result, the current status of production at plants involved with jet fighters designed by Mikoyan is ill defined.

Commensurate with the presumed continuing low rates of production of new Mikoyan fighters, a longer period for the phase-out of older types of fighters has been estimated. This estimate in turn has necessitated a reduction in the number of fighter aircraft estimated to have been produced during 1957.

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Such a replacement,

or improved version of Article E-5, would not be unusually because the airframe plant has been involved with limited production of the Fishbed for the past 2 years. Although it has been assumed that Article E-6 is a modification or a variant of Article E-5; the new designation has not been equated firmly with any known fighter.

of Tbilisi Airframe Plant No. 314 The only sighting . . . during the fourth quarter of 1958 produced little information productive activity in the plant. The observation revealed the presence of 7%unidentified fighter aircraft, possibly Farmer (MIG-19) jet fighters, and 2 unidentified aircraft tails protruding from a small hangar. 10/ Although the observer could supply no further details on the size or shape of the tails, he did not believe them to be tails of either Fresco (MIG-17) or Farmer aircraft.

A auggestion

, is that Tbilisi Airframe Plant No. 31 has filed a full set of drawings for Article E-5 with Gor'kly Airframe Plant No. 21 for record purposes and currently is tooling for production of Article E-6. A more likely possibility is that Tbills! Airframe Plant No. 31 will act in the capacity of pilot plant in production of Article E-6. Because the evidence is inconclusive, both suggestions are considered to be extremely tenuous.

A continuing study

indicates that the estimate of production for the

Sukhoy-designed jet fighter, the Fitter, at Komsomol'sk Airfiame Plant No. 126 should be revised upward. The current estimate of production at this plant, therefore, reflects this change from the previously published estimate. It is now believed that following a rather lengthy period of developmental testing, the rate of production of the modified Fitter was increased sharply during the second quarter of 1958. By December 1958, production probably reached a rate of 16 aircraft per month.

The estimate of production for Novosibirsk Airframe Plant No. 153 is very tentative. Analysis

indicates that the plant is associated with production of a Sukhoydesigned fighter aircraft, probably the Fishpot. The firstNeerlesproduced model of the aircraft is estimated to have been completed

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during the fourth quarter of 1958. Production of the Farmer at Novosibirsk Airframe Plant No. 153 probably will have ceased by the end of 1958. The Farmer is believed to have been produced at a high rate during the latter part of 1957, and the program for the phase-out of this aircraft should take approximately 1 year.

d. Others.

The estimate of production of the Greek (Yak-12) piston aircraft at Leningrad Airframe Plant No. 458 has been revised this quarter on the basis

It had been expected that production would decrease temporarily as a new model of the Creek was introduced into production. Analysis indicates that the Creek probably was being produced at the rate of one aircraft per working day during the first quarter of 1958. As more recent information is not available, it is assumed that production continued at a constant rate throughout the year.

During the fourth quarter of 1958, Rostov Airframe Plant No. 168 was identified as a producer of the Mi-3 helicopter, a slightly larger four-bladed version of the Hare (Mi-1) helicopter. 11/ Analysis indicates that a minimum of four of these helicopters had been produced at Plant No. 168 by the end of 1957. On two occasions the light helicopters have been observed within the area of the Rostov plant. Five helicopters identified as Hare were seen in May 1958, 12/ and eight were noted on the plant airfield in December 1958. 13/

Continued sightings of the Horse (Yak-24) helicopter in East Germany indicate that this helicopter was produced in slightly larger quantities than was previously estimated. The status of production of the large Yakovlev-designed helicopter remains obscure.

3. Production in the European Satellites, Fourth Quarter, 1958.*

Observations of the Prague/Vodochody Airframe Plant in Czechoslovakia during the fourth quarter of 1958 indicated that production of the Farmer jet fighter almost certainly stopped after a very short experimental series. Production of the Midget (U-MIG-15) at this plant continues.

a reappraisal of production of the Moose (Yak-11) piston-engine trainer in Czechoslovakia is now under way. It tentatively is concluded that production of this aircraft was instituted in 1953 and had ceased by mid-1957. The possibility that cumulative production of this aircraft as presented in the current estimate should be reduced by as much as 50 percent also should be noted. For the present, however, no change has been made.

* Estimated production of aircraft in the European Satellites and in Communist China from 1955 through 1958 is given by number in Table 8, p. 17, below, and by airframe weight in Table 9, p. 18, below.

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The estimate of production of the Crate (II-14) piston transport at the Letnany-Cakovice complex in Gzechoslovakia has been increased this quarter

Introduction of a new model of the Crate, II-14T, into production at this plant apparently has had little effect on the rate of production of 5 aircraft per month.

the buildup

of production for the Crate in East Germany during 1950 and 1957 was somewhat slower than previously estimated. Production during 1958 has been rather irregular but has averaged 3 aircraft per month.

In Poland, production of the Frerco continues, although possibly at a somewhat lower rate than currently estimated. Occasional reports that the Fresco was to be replaced in series production at Mielec by the Farmer have not been verified. Estimated production of the Sm-1 helicopter, Polish version of the Soviet Hare, at Lublin/ Swidnik has been revised this quarter

Recently, a second type of hellcopter, the Hound (Mi-4) appeared in Polish military and civil service. Although these aircraft probably were imported from the USSR, future Folish production of the Hound is quite possible.

Sightings and press releases indicate that the sporadic production of aircraft at Lovech, Bulgaria, has stopped entirely and is being replaced by production of motorcycles and bicycles. Production of light aircraft in Rumania and Hungary is continuing, but at a low and sporadic rate.

4. Production in Communist China, Fourth Quarter, 1958.

One of the most impressive achievements in the field of production of aircraft during 1958 within the Sino-Soviet Bloc is the progress made by Communist China. Although the Chinese Communists were producing no aircraft domestically as recently as 18 months ago, they now are engaged in series production of the Fresco (MIG-17) jet fighter and the Colt (An-2) piston transport. There are indications that the Chinese will undertake series production of the Hound (Mi-4) helicopter in early 1959.

Although no recent information is available on Shenyang Airframe Plant No. 112, it is believed that the plant is continuing production of Fresco aircraft which started in late 1957. Increasing numbers of the jet fighters designed by Mikoyan have been observed in operational units in 1958. Although the Chinese designate the jet fighter, "Type 56," it is believed that the aircraft is identical to the Fresco, produced by the USSR.

Production of the Colt piston transport at Nanchang Plant No. 320 is continuing at a relatively steady rate. The Chinese Communists have indicated that the biplanes will be produced at a rate 50 percent higher than originally planned. <u>14</u>/ Twelve of the transports were delivered from Nanchang in September 1958. <u>15</u>/ Of these aircraft, 6 were delivered to the Chinese Air Force, 2 to the Civil Air

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Administration, and 4 to various provincial governments. It is estimated that approximately 7 An-2's were completed in October and 7 in November. Plant No. 320 encountered some difficulties in production in late October as the plant experienced a shortage of calcium carbide. 16// Such a shortage, however, should not seriously have impaired production for any great length of time.

Harbin Airframe Plant No. 122 was concerned with production or metricenance of Hound helicopters. 17/

Subsequent intelligence, however, indicates that Plant No. 122 has produced the first Hound prototype and may enter series production of the Mill-designed helicopter. In a recent press release the Chinese Communists stated that a plant in Harbin had produced Communiat China's first multipurpose helicopter and that trial flights on 16 December 1958 proved the helicopter to be satisfactory. 18/ With the prototype completed and tested in December 1958, it is believed that China will enter series production of the helicopter in early 1959.

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Estimated Production of Aircraft in the Sino-Soviet Bloc, by Number $\frac{a}{2}$,

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Estimated Production of Aircraft in the Sino-Soviet Bloc, by Weight <u>a</u>/ 1955-58

				-			Tho	usand Pc	Thousand Pounds of Airframe Weight	frame Weight
Type of Aircraft	1,	1955	15	1956	T	1957	1958	3d G	3d Quarter of 1958	4th Quarter of 1958
Jet bomber			, coo				007 r		()ieo) h/	Oile
Heavy Medium Light	2,300 20,000 14,000	(18,000)	25,000 25,000 6,000		23,000 23,000 2,300		12,000 00		2,400 (2,500) U	1,400 0
Turboprop bomber										
Heavy	1,500		3,100		0		0	0		0
Jet fighter Transport	24,000		22,000		18,000		000 נת	2,600	(2,300)	2,400
Jet Turboprop	280 0	(300)	0116 176		1,700 970	(1,800) (047)	2,100 5,900	500 1,700	(330) (1,600)	500 2,200
Piston	2,600	(2,800)	10,000	(0,800)	12,000	(000,11)	3,900		(#30)	720
Trainer										
Jet Piston	8,600 660	(8,5∞)	3,900 720		2,600 740		2,100 650	160 160	(170)	041 1460
Other $c/$	2,700		3,200	(3,100)	3,000	(2,900)	3,100	790	(019)	730
Total	000 , 17	<u>(12,000</u> (<u>75,000</u>)	78,000	$(\overline{000, LL})^{-1}$	68,000		¹ t2,000	9,600	(8,800)	<u>8,900</u>
a. Figures include production of from unrounded figures and do not	ude produ imres an		ipare part Jways ago	cs and are ree with t	t rounded	spare parts and are rounded to two significant digits. always agree with the sum of the rounded components.	gnifican ded comp	t digit: onents.	1	Totals are derived

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from unrounded figures and do not always agree with the sum of the rounded components. b. Numbers in parentheses represent estimates presented in the last publication of this series. Changes in the present weight estimates from past weight estimates reflect changes in the estimated number of aircraft

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produced. c. Helicopters, gliders, seaplanes, and utility aircraft.

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4th Quarter Units of 1958 27 0 ofic 9.1.9 88 140 580 0 /व (6†) (व) 3d Quarter (011) (013) (66) of 1958 620 160 550 140 ∞<u>†</u>c 9 % 9 88 0 2,700 0110 14 230 0 140 360 36 540 0 1958 (390) (33) (13) (1,100) 1,600 (1,700) 1957 420 1,200 1, 1000 130 fé 33 81 Q ò 1830 (360) (06†) 1956 380 30 25 30 25 5,000 . 35 2,000 310 17 (640) 1,000 (320) (360) 1955 5 610 330 ನ ಹ್ಲಿ ಹಿ 840 340 5,900 2,600 17 2 Type of Aircraft Turboprop bomber Jet fighter Transport Jet Turboprop Piston Total Jet bomber Heavy Medium Piston Trainer Other c/ Light Heavy Jet в. 5

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Estimated Production of Aircraft in the USSR, by Number $\underline{a}/$ 1955-58 Figures are rounded to two significant digits. Totals are derived from unrounded figures and do not always agree with the sum of the rounded components.

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b. Numbers in parentheses represent estimates presented in the last publication of this series. Reasons for changes in the present estimates from past estimates are explained in the text of this publication.

c. Helicopters, gliders, and seaplanes.

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Type of Aircraft	T	1955	1956	99	10	1957	1958	3d (3d Quarter of 1958	4th Quarter of 1958
Jet bomber Heavy Medium Light	2,300 20,000 14,000	(18,000)	2,800 25,000 6,000		3,700 23,000 2,300	υ ^τ α	1,600 12,000 0		2,400 (450) <u>b</u> / 2,400 (2,500) <u>b</u> /	340 1,400 0
Turboprop bomber										
Heavy	1,500		3,100		0		0	0		0
Jet fighter Transport	21,000		19,000		15,000	15,000 (16,000)	7,200	1,600	(1,400)	1,400
Jet Turboprop Piston	280 0 2,600	(300) (2,800)	940 94 9,600	(9,500)	1,700 970 11,000,11	(1,800) (740) (10,000)	2,000 5,900 2,000	500 1,700 190	(330) (1,600) (84)	500 2,200 190
Trainer										
Jet Piston	6,700 1400		2,000 1430		1,100 430		830 1430	180 110		180 011
Other $c/$	2,700		3,100	(3,000)	2,700		2,600	660	(220)	610
Total	72,000	(70,000)	72,000		62,000		34,000	7,700	$(\overline{001,T})$	7,000

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Estimated Production of Aircraft in the USSR, by Weight \underline{a}' 1955-58 from unrounded ligures and of not drawys agree that we have been a publication of this series. Changes in b. Numbers in parentheses represent estimates presented in the last publication of this series. Changes in the present weight estimates from past weight estimates reflect changes in the estimated number of aircraft produced. c. Helicopters, gliders, and seaplanes.

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Estimated Production of Aircraft in the USSR, by Weight \underline{a} 1955-58

Thousand Pounds of Airframe Weight

					1			3d (3d Quarter of	4th Quarter of
Type of Aircraft		1955	1956	26	, T	1957	1958		1958	1958
Jet bomber										
Heavy Medium Light	2,300 20,000 14,000	(18,000)	2,800 25,000 6,000		3,700 23,000 2,300		1,600 12,000 0	340 2, ⁴⁰⁰ 0	1,600 340 (450) <u>b</u> / 12,000 2,400 (2,500) 0 0	340 1, ¹ 00
Turboprop bomber										
Heavy	1,500		3,100		0		0	0		0
Jet fighter Transport	21,000		19,000	.:	15,000	15,000 (16,000)	7,200	1,600	(1,400)	1,400
Jet Turboprop Piston	280 0 2,600	(300) (2,800)	940 94 9,600	(9,500)	000,11 970 000,11	(1,800) (740) (10,000)	2,000 5,900 2,000	1,700 1,700	$(1, 6\infty)$ $(1, 6\infty)$ (84)	500 2,200 1,90
Trainer										
Jet Piston	6,700 400		2,000 1,30		1,100		830 430	180 110		180 110
Other $c/$	2,700	ł	3,100	(3,000)	2,700		2,600	660	(250)	019
Total	72,000	(70,000) 72,000	72,000		62,000		34,000	1,700	$(\overline{1,100})$	00072
a Figures include production of	lude produ		spare par	ts and al	re rounde	spare parts and are rounded to two significant digits.	ignifica	nt digi		Totals are derived

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a. Figures include production of spare parts and are rounded to two significant digits. Totals are derived from unrounded figures and do not always agree with the sum of the rounded components. b. Numbers in parentheses represent estimates presented in the last publication of this series. Changes in the present weight estimates from past weight estimates from past weight estimates from past weight estimates from part of an estimates reflect changes in the estimated number of aircraft

c. Helicopters, gliders, and scaplancs. produced.

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' Estimated Cumulative Production of Selected Aircraft in the USSR <u>a</u>/ Through 1958

Units	Type of Aircraft Production to 1 January 1959	Jet medium bomber Jet light bomber Jet light bomber Jet heavy bomber Jet transport Jet transport Turboprop transport Piston transport D/ Jet fighter Jet fighter Jet fighter Helicopter Felicopter Felicopter Thooprop transport Jet fighter Felicopter Felicopter Thooprop transport Jet fighter Felicopter Felicopter Thooprop transport Blito Jet fighter Felicopter Thooprop transport Blito	Totals given in this table are rounded to two significant digits.
	Model		a. lotals given in

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Table	

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US Military Aircraft Acceptances, by Number $\frac{a}{2}$

s + [n]	3d Quarter ⁴ th Qu of of 1958 1958 1958	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	<u>5,617</u> <u>4,237</u> <u>1,036</u> <u>965</u>	1 <u>9/</u> Including preliminary data for December 1958. Tankers; helicopters; flying boats; and antisubmarine warfare, warning,
	<u>1955 1956</u>	3 ⁴ 75 530 505 1.55 105	631 469 4,017 2,656 536 362 1,439 843 1,098	8,043 6,113	lnary data for ters; flying bo
	Type of Aircraft Bomber	Heavy Medium Light	Ground attack Fighter Transport Trainer Other c/	Total	a. <u>19/</u> b. <u>Including preliminary data for December 1958.</u> c. Tankers; helicopters; flying boats; and antisubmarine v

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US Military Aircraft Acceptances, by Weight $\underline{a}/$ 1955-58

				Thousan	Thousand Pounds of Airframe Jeight	rframe deight
Type of Aircraft	. 1955	1956	1957	1958	3d Quarter of 1958	4th Quarter o: 1956 <u>2</u> /
Bomber			97 a.			
Heavy Medium Light	3,853 26,377 2,724	8,442 22,525 1,975	19,462 7,340 268	17,638 1,250 0	4,301 32 0	4,159 128 0
Ground attack Fighter Transport Trainer	6,034 43,161 20,697 7,453	4,803 30,588 33,104 3,283	3,720 30,427 9,319 4,050	3,705 18,628 8,214 3,107	978 1, 050 1, 693	705 3,597 1,348 1,348
Other c/ Total	4,591 114,696	90,012	4,073	66, 312	4,221	4,300
 a. 20/ b. Including preliminary data for December 1958. c. Tankersj helicopters; flying boats; and antisu utility, amphibian, and lighter-than-air aircraft. 	liminary dat copters; fly n, and light	a for Dece Ing boats; cer-than-ai	mber 1958. and antis r aircraft	submarine v	20/ Including preliminary data for December 1958. Tankers; helicopters; flying boats; and antisubmarine warfare, warning, liaison, ity, amphibian, and lighter-than-air aircraft.	g, llaison,

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Estimated Production of Aircraft in the Furopean Satellites and in Communist China, by Number $\underline{a}/$

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Units	4th Guarter	1058	ୁ ଏ ୦ ୮ ୯ ୯୦ ଅପ	011	9 ° 8	130	81 0 1 0	ភា	국 성	65	340	do not Reasons for
	3d Quarter	or 1958	(†††) /q (21) /1 (11)		. (2)	(100)	(6)	(<u>6</u>)	(54)	(0)	(320)	
	3d		ш Т С Т С С С С С С С С С С С С С С С С	021	8°∞ 8	130	20 10 10 0	5	36 17	<u>53</u>	340	ded fi f this
		1958	10 210 54 50 50 180 180	530	360 34 110	200	20 33 33 33 1	키	120 56	180	1,400	m unroun cation o
		57	(38)	(800)	(8)	(<u>240</u>)	(20)	(<u>20</u>)				ved fro t publi
		1957	220 250 140 146 150	810	190 190 190	270	0 13 0 13 8 0 10 10 10 10 10 10 10 10 10 10 10 10 1	19	ЧЧ	15	1,200	are deri the las
		1956	(13)		(2)	(<u>300</u>)	(†)					Totals a inted in
		19	220 140 96 96	252	260 36 0	290	0 5 3 3 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CVI	00	01	1,200	lgits. ponents. es prese stimates
		1955	240 140 140 22	720	330 36 0	370	0 0 55 50 55 55	01	00	01	1,200	ficant d nded com estimate n past es
		Type of Aircraft	Jet fighter Jet trainer Fiston trainer Piston transport Helicopter Other		Jet fighter Piston trainer Light hellcopter		Piston trainer Piston trainer Piston trainer Piston transport Jet transport		Jet fighter Piston transport			a. Figures are rounded to two significant digits. Totals are derived from unrounded figures and always agree with the sum of the rounded components. b. Numbers in parentheses represent estimates presented in the last publication of this series. changes in the present estimates from past estimates are explained in the last publication of this series.
		Country	Czechoslovakia	Total	Poland	Total	Rumania Bulgaria Hungary East Germany	Total	Communist China	Total	Grand total	a. Figures are r always agree with b. Numbers in pa changes in the pr

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Estimated Production of Aircraft in the European Satellites and in Communist China, by Weight $\frac{a}{a}$

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							Thousan	d Pound	: of Air	Thousand Pound: of Airframe Weight
								3d Quarter	arter	lth Quarter
Type of Aircraft	craft	1955		1956		1957	1958	of 1956	۲ کر	of 1958
Jet fighter Jet trainer Fiston trair	ner		1,300 1,900	υ.	1,200	(1,300) b/	1,300 1,300	280 280 2		580 O
Piston transport Hellcopter Other	sport	0 5 1 7	100 0	(220) <u>c</u> /	160 160	(660)	1,000 200 200	260 260 J	(100) (100) (100) (148)	25 0 250 0 25
	•	3,500	3,700		3,900	(<u>3,700</u>)	2,700	620	(1480)	230
Jet fighter Fiston trainer Light helicopter	ner topter	2,000 35 0	1,500 35 0		1,400 35 92	(18)	;,7 00 33 260	670 8 69	(77)	69 69
,		2,000	1,600	<u>م (میز (میز</u>))	009'î	$(\overline{1}, \overline{500})$	3,000	750	(<u>66</u>)	750
Piston trainer Piston trainer Piston trainer Piston transport Jet transport	ner ner ner sport rt	23 59 29 29 29	0 # % # 0	(69)	0 330 330 330 330 330 330 330 330 330 3	(350)	61 61 62 689	0 1 1 1 0 0	(160)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		01	40	(<u>6</u>)	330	(<u>350</u>)	Oth	110	(<u>797</u>)	190

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* Footnotes for Table 9 follow on p. 19.

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Weight a	1
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Satellites a	0
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Aircraft	
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timated Production	
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•	Totals are derived from unrounded	erived fro	are de	Totals	dentficant digits.	a. Figures include production of spare parts and are rounded to two significant digits.	<u>ы</u> гд	spare parts and
	80.	(320)	330	1,100	뫼	01		0
	310 79	(260) (90)	270 64	890 210	, † 13	00		00
	4th Quarter of 1958	3d Quarter of 1958	39 8	1958	1957	1956	ł	
	Thousand Pounds of A. frame Weight	is of A. f	d Pound	Thousar				

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a. Figures include production of spare parts and are rounded to two significant digits. Totals are derived from unrounde figures and do not always agree with the sum of the rounded components.
b. Erroneously published in the last quarterly publication of this series.
c. Numbers in parentheses represent estimates presented in the last publication of this series. Unless otherwise indicated, changes in the present weight estimates from past weight estimates reflect changes in the estimated number of air-craft produced.

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Estimated Production of Aircraft in the Sino-Soviet Bloc, by Number in Selected Plants

as of the Fourth Quarter of 1958

TƏ ÷ Phasing out. Prototypes. Only 1 Bounder lieved to have ceased duris known positively to exist, but it is possible that 2 have been coning the fourth quarter of Production ceased in late 1957 or early 1958. Fresco may be continuing Current activity largely Series production is be-The last Farmer was pro-duced in April 1958. Series production is believed to have ceased in August 1958. Moddflcation of the Remarks at the plant. îs obscure. Phasing out. Phasing out. structed. 1956. Cumulative Production ^B/ S in 040 1,000 1,400 1,700 17 55 Quarterly Production d 0 0 mо 0 13 0 0 Production December ч о 0 0 10 0 0 Ś Kuybyshev No. 18 Airframe Plant Kuybyshev No. 1 Kazan' No. 22 Voronezh No. 64 Gor'kiy No; 21 Tbilisi No. 31 Gor'kiy No, 21 Moscow No. 23 Moscow No. 23 Faceplate/Fishbed Farmer (MIG-19) Fresco (MEG-17) Badger (Tu-16) Badger (Tu-16) Badger (Tu-16) Bison (Mya-4) Bounder Heavy turboprop Bear (Fu-95) Model Type of Alrcraft Jet fighters Medium jet Heavy jet Bomhers Country USSR TOTALET (

a. Unloss otherwise indicated figures for cumulative production are rounded to two significant digits and include all production through the fourth quarter of 1958.

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			Lape	ECRET	- ,				
Remarks	Series] oduction is believed to have tarted in November	1971. Series production is believed to have started in July	1957. Phasing out. Series production is helieved to have started in October	1958. Series production is believed to have started in March 1958.					Frototypes. The Tu-114D air- craft possibly are modified Tu-95 aircraft rather than new production.
Cumulative Production	58.	ÖTT	1,900 2	63	. ,	39	146	458	ω
Quarterly Production	Ř	Ltr	500	OC N	·	9	£	13 16 16	CI
December Production	,4L	16	うよ	1		S	г	う よう	0
Airframe Plant	Tbilitsi No. 31	Komsomol'sk No. 126	Novosibirsk No. 153 Novosibirsk No. 153	Saratov No. 292		Khar'kov No. 135	Omsk No. 166	Irkutsk No. 39 Voronezh No. 64 Moscow No. 30	Kuybyshev No. 18
Model	Fishbed	Fitter	Farmer (MIG-19) Fishpot	Yak-27	ŧ	Camel (Tu-104 and Tu-104A)	ADI-UL DAR	Military Cat (An-12) Civil Cat (An-10) Coot (I1-18)	Cleat (Tu-114 and Tu-114D)
Type of Aircraft	Jet fighters (Continned)				Transports	Jet		Turboprop	
Country	USSR (Continued)							. •	

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Table 10

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Estimated Production of Aircraft in the Sino-Soviet Bloc, by Number in Selected Plants as of the Fourth Quarter of 1958
 (Continued)

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Table	

Estimated Production of Aircraft in the Sino-Soviet Bloc, by Number in Selected Plants as of the Fourth Quarter of 1958 (Continued)

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Remarks	The type cf aircraft is not known. It possibly is the An-8, although information is conflicting.	Production is believed to have	ter of 1958.		Cumulative production since	1952. Cumulative production since 1952.		Only a small quantity was series produced. Produc- tion ceased in 1956.	
Cumulative Production	Ń	1,000 1,700	27		1,800	2,700	180 780 120	54 14	320
Quarterly Production	.	72 0	ស		õ	6	555 2958 2958	000	m
December Production	0	24 0	6		10	30	12 F	0	Т
Airframe Plant	Tashkent No. 84	Leningrad No. 458 Kiey No. 473	Kiev No. 473		Ulan-Ude No. 99	Bemenovka No. 116	Rostov No. 168 Chkalov No. 47 Ulan Ude No. 99 Kazan' Mc. 387	Leningrad No. 272	Taganrog No. 49/86
 TaboM	Antonov transport	Creek (Yak-12) Colt (An-2)	Clod (An-14)	й	Midget (U-MIG-15)	Max (Yak-18)	Hare (M1-3) Hare (M1-1) Hen (Ka-15) Hound (M1-4)	Horse (Yak-24)	Madge (Be-6)
Type of Aircraft	Turboprop (Continued)	Puston		Trainers	Jet	Piston	Helicopters	•	Seaplanes
Country	USSR (Continued)								

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Sammated Rroduction of Aircraft in the Sino-Soviet Bloc, by Number in Selected Plants as of the Fourth Quarter of 1958 (Continued)

		T	IP: SECI	RE T		
Remarks.		third que ter of 1958.	Preseries production.	Preseries production. Prototypes. Prototypes.		
Cumulative Production	01	120 1,300 380		550 10 - 10 - 10 3 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	011 130	20
Quarterly Production	0	30 3 4 1 1 30 3 4 2 2	19 19 1 0	800000	30 15 30	9
December Production	0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0 H H 4	00 H H O O H	10	S
Airframe Plant	Vodochody	Cakovice Vodochody Otrokovice Kunovice	Kumovice Chocen "Orlican" Chocen "Orlican" Otrokovice	Mielec Okecie Swidnik Mielec Swidnik Mielec	Lublh/Swidnik Stalin	Reghin
Model	Farmer (MIG-19) type	Crate (II-14) Midget (U-MIG-15) HC-2 Aero-145	L-200 L-60 L-40 ZLIN Beries	Fresco (MIG-17) PZL-101 PZL-M-2 TS-8 TS-8 PZL-102 S-4 Kania-2	SM-1 IAR-611 IAR-613 IAR-617	RG6
Type of Aircraft	Jet fighters	Piston transport Jet trainer Helicopters Others		Jet fighters Piston trainers	Helicopters Piston trainers	
Country	Czechoslovakia			Poland	Rumania	•
		TOP	SECRE	T		

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Estimated Production of Aircraft in the Sino-Soviet Bloc, by Numbér in Selected Plants as of the Fourth Quarter of 1958 (Continued)

		7-3-8	çêE	ere i)
Remarks	Product) on ceased during fourth quarter of 1958.	Prototype.		Prototype.	
Cumulative Production	OTT	120 1		g ri	120 57
Quarterly Production	5	6 Ţ		H O	국 J
December	0	мо		1 ¹ 0	74 14
Airframe Plant	Lovećh	Kaztergom Kaztergom		Dreaden/Klotzsche Dresden/Klotzsche	Shenyerg No. 112 Nanchang No. 320
Mođel	I.MZ. Series	Max (Tak-18)		Crate (II-14) "Type 152"	Freeco (MIG-17) - Colt (An-2)
Country Type of Afrerect	Piston trainers	Piston trainers Helicopters	Transports	Piston Jet	Jet fighters Fresco (MIC-17) Platon transports Colt (An-2)
Country	Bulgaria	Hungary	East (Ermany		Commutst China Jet fighters Piston transf

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US^a and USSR^b

PRODUCTION OF MILITARY AIRCRAFT, BY NUMBER



Figure 1

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PRODUCTION OF MILITARY AIRCRAFT, BY WEIGHT



Figure 2

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USSR totals are rounded.
 Bombers and fighters.
 US figures do not include production of spare parts.

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Figure 2

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APPENDIX

SOURCE REFERENCES

Evaluations, following the classification entry and designated "Eval.," Have the following significance:

Source of Information	Information
Doc Documentary	1 - Confirmed by other sources
A - Completely reliable	2 - Probably true
B - Usually reliable	3 - Possibly true
C - Fairly reliable	4 - Doubtful
D - Not usually reliable	5 - Probably false
E - Not reliable	6 - Cannot be judged
F - Cannot be judged	

"Documentary" refers to original documents of foreign governments and organizations; copies or translations of such documents by a staff officer; or information extracted from such documents by a staff officer, all of which may carry the field evaluation "Documentary."

Evaluations not otherwise designated are those appearing in the cited document; those designated "RR" are by the author of this report. No "RR" evaluation is given when the author agrees with the evaluation on the cited document.

SPADE

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