

STUDY  
F.

ESTIMATE OF WAD ENGINE FLIGHT HOURS AND ENGINE FLIGHT MILES

	<u>Hours</u>	<u>Miles</u>
<u>WHIRLWIND 760</u>		
Total 2541 engines, 1250 installed		
Estimated life: 5 years, average 3 hrs./day		
365 x 5 x 3 x 1250 =	6,850,000	
At average 100 MPH		685,000,000
<u>WHIRLWIND 975 (AIRCRAFT)</u>		
(53395 tank engines not included in hours)		
Total 7386, 3700 installed		
Estimated life: 5 years at 4 hrs./day		
365 x 5 x 4 x 3700 =	27,000,000	
At average 100 MPH		2,700,000,000
<u>C7</u>		
Total 3540 engines, 1800 installed		
Estimated life: 5 years at 3 hrs./day		
365 x 5 x 3 x 1800 =	9,850,000	
At 80 MPH		790,000,000
<u>C9F</u>		
Total 4394, 2200 installed		
Estimated life: 6 years at 5 hrs./day		
365 x 6 x 5 x 2200 =	24,100,000	
At 140 MPH		3,370,000,000
<u>C9G</u>		
Total 4092, installed 2050		
Estimated life: 6 years at 5 hrs./day		
365 x 6 x 5 x 2050 =	22,400,000	
At 140 MPH		3,150,000,000
<u>C9G100</u>		
Total 5416, installed 2700		
Estimated life: 6 years at 5 hrs./day		
365 x 6 x 5 x 2700 =	28,800,000	
At 150 MPH		4,300,000,000

ESTIMATE OF WAD ENGINE FLIGHT HOURS AND ENGINE FLIGHT MILES

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	<u>Hours</u>	<u>Miles</u>
<u>G200</u>		
Commercial total 4155, installed 2200 Estimated life: 8 years at 6 hrs./day 365 x 8 x 6 x 2200 = At 160 MPH	34,000,000	5,400,000,000
Military - 81838, installed 33,000 Estimated life: 4 years at 3 hrs./day 365 x 4 x 3 x 33,000 = At 150 MPH	145,000,000	22,000,000,000
<u>C9HC-HD</u>		
Total 16,764, installed 10,000 Estimated life: 5 years at 3 hrs./day 365 x 5 x 3 x 10,000 = At 100 MPH	54,800,000	5,480,000,000
<u>C9HE</u>		
Total 1399, 800 installed Estimated life: 2 years at 4 hrs./day 365 x 2 x 4 x 800 = at 100 MPH	1,700,000	170,000,000
<u>C14A</u>		
Total 23298, 14,000 installed Estimated life: 3 years at 4 hrs./day 365 x 3 x 4 x 14,000 = At 150 MPH	61,500,000	9,200,000,000
<u>C14BA</u>		
Total 46,502, 30,000 installed Estimated life: 2 years at 4 hrs./day 365 x 2 x 4 x 30,000 = At 150 MPH	91,000,000	13,700,000,000
<u>C14BB</u>		
Total 15,509, 8,000 installed Estimated life: 1 year at 4 hrs./day 365 x 1 x 4 x 8,000 = At 150 MPH	11,700,000	1,752,000,000

ESTIMATE OF WAD ENGINE FLIGHT HOURS AND ENGINE FLIGHT MILES

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	<u>Hours</u>	<u>Miles</u>
<u>C18A and BA</u>		
Total 14,036, installed 8,000		
Estimated life: 3 years at 4 hrs./day		
365 x 3 x 4 x 8,000	35,000,000	
At 170 MPH		5,590,000,000
<u>C18BB and BC</u>		
Total 202, Installed 100		
Estimated life" 3 years at 4 hrs./day		
365 x 3 x 4 x 100	438,000	
At 150 MPH		66,000,000
<u>C18BD</u>		
Total 1657, installed 800		
Estimated Life: 8 years at 6 hrs./day		
365 x 8 x 6 x 800	14,000,000	
At 160 MPH		2,240,000,000
<u>C18BA Dodge</u>		
Total 18,413, Installed 9,000		
Estimated life: 2 years at 4 hrs./day		
365 x 2 x 4 x 9000	26,300,000	
At 170 MPH		4,500,000,000
<u>C18C</u>		
Total 3899, Installed 2000		
Estimated life: 6 years at 4 hrs./day		
365 x 6 x 4 x 2000	17,500,000	
At 170 MPH		3,000,000,000
<u>C18DA</u>		
Total 7822, installed 4000		
Estimated life: 6 years at 6 hrs./day		
365 x 6 x 6 x 4000	52,500,000	
At 160 MPH		8,400,000,000

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	<u>Hours</u>	<u>Miles</u>
<u>C18DB</u>		
Total 895, installed 400		
Estimated life: 6 years at 4 hrs./day		
365 x 6 x 4 x 400	3,500,000	
At 150 MPH		525,600,000
<u>Miscellaneous Engines</u>		
Total 994, installed 550		
Estimated life: 5 years at 4 hrs./day		
365 x 5 x 4 x 550	4,015,000	
At 100 MPH		400,000,000
<u>C18EA</u>		
Total 2886, installed 1500		
Estimated life: 4 years at 7 hrs./day		
365 x 4 x 7 x 1500	15,400,000	
At 170 MPH		2,600,000,000
<u>Turbo Jet</u>		
Total 11,000, installed 5500		
Estimated life: 5 years at 2 hours/day		
365 x 5 x 2 x 5500	20,000,000	
At 400 MPH		8,000,000,000

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<u>ENGINES</u>	<u>ENGINE HOURS MILLIONS</u>	<u>ENGINE MILES BILLIONS</u>
2,541	6.850	.685
7,386	27.000	2.700
3,540	9.850	.790
4,394	24.100	3.370
895	3.500	.525
994	4.000	.400
2,886	15.400	2.600
11,000	20.000	8.000
4,092	22.400	3.150
5,416	28.800	4.300
4,155	34.000	5.400
81,838	145.000	22.000
16,764	54.800	5.480
1,399	1.700	.170
23,298	61.500	9.200
46,502	91.000	13.700
15,509	11.700	1.750
14,036	35.000	5.590
202	.440	.066
1,657	14.000	2.240
18,413	26.300	4.500
3,899	17.500	3.000
<u>7,822</u>	<u>52.500</u>	<u>8.400</u>
278,638*	707,340,000 Engine Hours	108,016,000,000 (Engine miles)

\* Does not include 52,641 tank engines which would make the total 332,033 engines.