

D-2a. Performance	Item	No Air Filter		With Air Filter
		Estimated	Guaranteed	Estimated
	Normal Gross Weight (Lbs.)	8370		8381
	Wing Loading (Lbs./sq.ft.)	35.95		35.97
	Power Loading (Military Rating) (Lbs./BHP)	6.32		6.32
	Normal Fuel (Gals.)	105		105
	Overload Fuel (Gals.)	180		180
	High Speed (Military Rating) (MPH)	366	350	359
	at Critical Altitude (Ft.)	5775		3900
	High Speed (Normal Rating) (MPH)	343	328	338
	at Critical Altitude (Ft.)	6200		4750
	High Speed at S.L. (Military Rating) (MPH)	345	330	345
	High Speed at S.L. (Normal Rating) (MPH)	322	308	322
	Maximum Rate of Climb (Military Rating) (Ft./Min.)	3290	2900	3290
	Maximum Rate of Climb (Normal Rating) (Ft./Min.)	2550	2245	2550
	Time to Climb to 10,000 Ft. (Military Rating) (Mins.)	3.54		3.69
	Time to Climb to 10,000 Ft. (Normal Rating) (Mins.)	4.54		4.67
	Service Ceiling (Military Rating) (Ft.)	30000		29400
	Service Ceiling (Normal Rating) (Ft.)	27300	24000	26900
	V (Cruise) 75% Normal Power (MPH)	322	308	317
	at full throttle altitude, (2280 RPM) (Ft.)	10400		9450
	Range at Most Economical Speed at 5,000 Ft. 105 Gallons (Miles)	775		775
	180 Gallons (Miles)	1287	1100	1287
	Endurance Corresponding to Range at Most Economical Speed at 5,000 Ft. 105 Gallons (Hrs.)	3.86		3.86
	180 Gallons (Hrs.)	6.35		6.35
	Endurance at High Speed (Normal Rating) 105 Gallons (Hrs.)	.93		.93
	180 Gallons (Hrs.)	1.58		1.58
	Take-Off Speed (MPH)	106.8		106.8
	Stalling Speed (See Performance Notes) (MPH)	81.7	86	81.7

D-2a. Performance

Item

Estimated - No Air Filter
Streamlined External Tanks

Gross Weight	(Lbs.)	10822
Fuel - Including 180 Gallons in Wing Tanks	(Gals.)	480
Range* at Most Economical Speed at 5,000 Ft.		
Tanks Dropped when Empty	(Miles)	2891
Tanks Carried Entire Distance	(Miles)	2737
Endurance Corresponding to Most Economical Speed at 5,000 Ft.		
Tanks Dropped when Empty	(Hrs.)	14.33
Tanks Carried Entire Distance	(Hrs.)	13.98

* 15 gallons allowed for warm-up, taxiing, take-off and climb.

Estimated - No Air Filter

<u>Item</u>	<u>2-75 Gallon External Wing Tanks</u>	<u>2-300-lb. Bombs</u>	<u>2-500-lb. Bombs</u>	<u>2 Bomb Racks</u>
Gross Weight	(Lbs.) 10116	9700	10124	9132
Wing Loading	(Lbs./Sq.Ft.) 43.45	41.55	43.50	39.10
Power Loading (Military Rating)	(Lbs./BHP) 7.63	7.31	7.64	6.89
Normal Fuel (Full Wing Tanks)	(Gals.) 180	180	180	180
Overload Fuel	(Gals.) 330			
High Speed (Military Rating) at Critical Altitude	(MPH) 314	340	332	356
	(Ft.) 4580	5080	4950	5440
High Speed (Normal Rating) at Critical Altitude	(MPH) 293	314	305	327
	(Ft.) 4980	5360	5200	5700
High Speed at S.L. (Military Rating)	(MPH) 299	322	315	337
High Speed at S.L. (Normal Rating)	(MPH) 279	302	294	315
Max. Rate of Climb (Military Rating)	(Ft./Min.) 2400	2635	2440	2920
Max. Rate of Climb (Normal Rating)	(Ft./Min.) 1990	2000	1820	2220
Time to Climb to 10,000 Ft. (Military Rating)	(Mins.) 5.04	4.54	4.94	4.03

FORM 51 REVISED

Report No. NA-5338

NORTH AMERICAN AVIATION, INC.
INGLEWOOD, CALIFORNIA

D-2a. Performance	Item	Estimated			
		2-75 Gallon External Wing Tanks	2-300-lb. Bombs	2-500-lb. Bombs	2 Bomb Racks
	Time to Climb to 10,000 Feet (Normal Rating)	(Mins.) 6.75	5.96	6.61	5.28
	Service Ceiling (Military Rating) (Ft.)	24800	26400	25200	28100
	Service Ceiling (Normal Rating) (Ft.)	21400	23300	21800	25100
	V (Cruise) 75% Normal Power at Full Throttle Altitude (2280 RPM)	(MPH) 271 (Ft.) 9500	297 9950	285 9760	312 10260
	Range at Most Economical Speed at 5,000 Feet 330 Gallons (Tanks Dropped When Empty)	(Miles) 2100			
	Bombs or Tanks Carried Entire Distance				
	180 Gallons (Miles)		1129	1061	1260
	330 Gallons (Miles)	2002			
	Bombs Carried 0.4 of Total Distance				
	180 Gallons (Miles)		1207	1171	
	Endurance Corresponding to Range at Most Economical Speed at 5,000 Ft. 330 Gallons (Tanks Dropped When Empty)	(Hrs.) 10.96			
	Bombs or Tanks Carried Entire Distance				
	180 Gallons (Hrs.)		5.88	5.35	6.35
	330 Gallons (Hrs.)	11.24			
	Bombs Carried 0.4 of Total Distance				
	180 Gallons (Hrs.)		6.26	6.04	
	Take-Off Speed (MPH)	120.1	116.7	120.1	112.3
	Stalling Speed (See Performance Notes) (MPH)	81.7	81.7	81.7	81.7