

N617CC

1980 Cessna 421C

Performance Data

Aircraft S/N: 421C-0897



Prepared by the worldwide aviation specialists at RidgeAire, Inc.

STALL SPEEDS

CONDITIONS:

Throttles - IDLE

NOTE:

1. Maximum altitude lost during a conventional stall is 800 feet.
2. Maximum altitude loss during an engine inoperative stall is 550 feet with a maximum pitch below the horizon of 25°.

| WEIGHT Pounds | Configuration | | ANGLE OF BANK | | | | | | | |
|------------------|---------------|------|---------------|------|------|------|------|------|------|------|
| | | | 0° | | 20° | | 40° | | 60° | |
| | Flaps | Gear | KIAS | KCAS | KIAS | KCAS | KIAS | KCAS | KIAS | KCAS |
| 7450 | 0° | Up | 86 | 83 | 89 | 85 | 98 | 94 | 122 | 117 |
| | 15° | Down | 82 | 80 | 85 | 82 | 95 | 91 | 118 | 113 |
| | 45° | Down | 77 | 74 | 80 | 76 | 89 | 85 | 110 | 105 |
| 6800 | 0° | Up | 82 | 79 | 85 | 81 | 94 | 90 | 117 | 112 |
| | 15° | Down | 78 | 76 | 81 | 78 | 90 | 87 | 113 | 107 |
| | 45° | Down | 74 | 71 | 76 | 73 | 85 | 81 | 105 | 100 |
| 6200 | 0° | Up | 78 | 75 | 81 | 78 | 90 | 86 | 112 | 107 |
| | 15° | Down | 75 | 73 | 77 | 75 | 86 | 83 | 107 | 103 |
| | 45° | Down | 71 | 68 | 73 | 70 | 81 | 77 | 100 | 95 |
| 5600 | 0° | Up | 74 | 72 | 77 | 74 | 85 | 82 | 106 | 101 |
| | 15° | Down | 71 | 69 | 73 | 71 | 81 | 79 | 102 | 98 |
| | 45° | Down | 67 | 64 | 69 | 66 | 77 | 73 | 95 | 91 |

Figure 5-8

SECTION 5
PERFORMANCE

Cessna
MODEL **421C**

NORMAL TAKEOFF DISTANCE

CONDITIONS:

1. 2235 RPM and 39.0 Inches Hg. Manifold Pressure Before Brake Release.
2. Mixtures - CHECK Fuel Flows In the White Arc.
3. Wing Flaps - UP.
4. Level, Hard Surface, Dry Runway.

NOTES:

1. If full power is applied without brakes set, distances apply from point where full power is applied.
2. Decrease distance 7% for each 10 knots headwind.
3. Increase distance 4% for each 2 knots tailwind.

| WEIGHT- POUNDS | TAKEOFF TO 50- FOOT OBSTACLE SPEED- KIAS | PRESSURE ALTITUDE- FEET | -20°C (-4°F) | | -10°C (14°F) | | 0°C (32°F) | | 10°C (50°F) | |
|-------------------|---|-------------------------------|--------------------------|--|--------------------------|--|--------------------------|--|--------------------------|--|
| | | | GROUND ROLL - FEET | TOTAL DISTANCE TO CLEAR 50 FEET | GROUND ROLL - FEET | TOTAL DISTANCE TO CLEAR 50 FEET | GROUND ROLL - FEET | TOTAL DISTANCE TO CLEAR 50 FEET | GROUND ROLL - FEET | TOTAL DISTANCE TO CLEAR 50 FEET |
| 7450 | 100 | Sea Level | 1280 | 1610 | 1410 | 1780 | 1550 | 1980 | 1710 | 2200 |
| | | 1000 | 1360 | 1710 | 1500 | 1890 | 1650 | 2100 | 1810 | 2340 |
| | | 2000 | 1450 | 1810 | 1590 | 2000 | 1750 | 2220 | 1930 | 2490 |
| | | 3000 | 1540 | 1920 | 1690 | 2120 | 1860 | 2360 | 2050 | 2650 |
| | | 4000 | 1630 | 2030 | 1800 | 2260 | 1980 | 2520 | 2190 | 2830 |
| | | 5000 | 1740 | 2160 | 1920 | 2400 | 2110 | 2680 | 2330 | 3020 |
| | | 6000 | 1850 | 2300 | 2040 | 2560 | 2250 | 2860 | 2490 | 3230 |
| | | 7000 | 1970 | 2440 | 2180 | 2720 | 2400 | 3060 | 2650 | 3460 |
| | | 8000 | 2110 | 2610 | 2320 | 2910 | 2570 | 3270 | 2840 | 3720 |
| | | 9000 | 2250 | 2780 | 2480 | 3110 | 2740 | 3510 | 3030 | 4010 |
| | | 10,000 | 2410 | 2970 | 2660 | 3330 | 2930 | 3770 | 3250 | 4330 |
| 6800 | 96 | Sea Level | 1010 | 1280 | 1110 | 1410 | 1220 | 1550 | 1370 | 1750 |
| | | 1000 | 1070 | 1350 | 1180 | 1490 | 1330 | 1670 | 1460 | 1850 |
| | | 2000 | 1140 | 1430 | 1280 | 1610 | 1410 | 1770 | 1550 | 1970 |
| | | 3000 | 1240 | 1540 | 1360 | 1700 | 1500 | 1880 | 1650 | 2090 |
| | | 4000 | 1320 | 1630 | 1450 | 1800 | 1590 | 2000 | 1750 | 2220 |
| | | 5000 | 1400 | 1730 | 1540 | 1910 | 1690 | 2120 | 1870 | 2360 |
| | | 6000 | 1490 | 1840 | 1640 | 2030 | 1800 | 2260 | 1990 | 2520 |
| | | 7000 | 1590 | 1950 | 1750 | 2160 | 1920 | 2400 | 2120 | 2690 |
| | | 8000 | 1700 | 2080 | 1870 | 2300 | 2050 | 2560 | 2270 | 2880 |
| | | 9000 | 1810 | 2210 | 1990 | 2460 | 2190 | 2740 | 2420 | 3080 |
| | | 10,000 | 1930 | 2360 | 2130 | 2620 | 2350 | 2930 | 2590 | 3300 |
| 6200 | 91 | Sea Level | 810 | 1030 | 890 | 1130 | 980 | 1240 | 1070 | 1370 |
| | | 1000 | 860 | 1090 | 950 | 1200 | 1040 | 1320 | 1140 | 1450 |
| | | 2000 | 920 | 1150 | 1010 | 1270 | 1100 | 1390 | 1240 | 1570 |
| | | 3000 | 980 | 1220 | 1070 | 1340 | 1200 | 1500 | 1320 | 1660 |
| | | 4000 | 1040 | 1290 | 1160 | 1450 | 1280 | 1590 | 1400 | 1760 |
| | | 5000 | 1130 | 1390 | 1240 | 1530 | 1360 | 1690 | 1490 | 1870 |
| | | 6000 | 1200 | 1480 | 1320 | 1630 | 1450 | 1800 | 1590 | 1990 |
| | | 7000 | 1280 | 1570 | 1400 | 1730 | 1540 | 1910 | 1690 | 2120 |
| | | 8000 | 1360 | 1670 | 1500 | 1840 | 1640 | 2030 | 1810 | 2260 |
| | | 9000 | 1450 | 1770 | 1600 | 1960 | 1750 | 2170 | 1930 | 2410 |
| | | 10,000 | 1550 | 1890 | 1700 | 2080 | 1870 | 2310 | 2060 | 2570 |
| 5600 | 86 | Sea Level | 640 | 820 | 700 | 900 | 770 | 980 | 840 | 1080 |
| | | 1000 | 680 | 860 | 750 | 950 | 820 | 1040 | 890 | 1140 |
| | | 2000 | 720 | 910 | 790 | 1000 | 870 | 1100 | 950 | 1210 |
| | | 3000 | 770 | 970 | 840 | 1060 | 920 | 1160 | 1010 | 1280 |
| | | 4000 | 820 | 1020 | 900 | 1120 | 980 | 1230 | 1070 | 1360 |
| | | 5000 | 870 | 1080 | 950 | 1190 | 1040 | 1310 | 1170 | 1460 |
| | | 6000 | 930 | 1150 | 1020 | 1260 | 1130 | 1410 | 1240 | 1550 |
| | | 7000 | 990 | 1220 | 1100 | 1360 | 1210 | 1500 | 1320 | 1650 |
| | | 8000 | 1070 | 1310 | 1170 | 1440 | 1290 | 1590 | 1410 | 1750 |
| | | 9000 | 1140 | 1400 | 1250 | 1530 | 1370 | 1690 | 1510 | 1870 |
| | | 10,000 | 1220 | 1480 | 1340 | 1630 | 1470 | 1800 | 1610 | 1990 |

Figure 5-10 (Sheet 1 of 2)

NORMAL TAKEOFF DISTANCE

SECTION 5 PERFORMANCE

CONDITIONS:

1. 2235 RPM and 39.0 Inches Hg. Manifold Pressure Before Brake Release.
2. Mixtures - CHECK Fuel Flows In the White Arc.
3. Wing Flaps - UP.
4. Level, Hard Surface, Dry Runway.

NOTES:

1. If full power is applied without brakes set, distances apply from point where full power is applied.
2. Decrease distance 7% for each 10 knots headwind.
3. Increase distance 4% for each 2 knots tailwind.

| WEIGHT- POUNDS | TAKEOFF TO 50- FOOT OBSTACLE SPEED- KIAS | PRESSURE ALTITUDE- FEET | 20°C (68°F) | | 30°C (86°F) | | 40°C (104°F) | |
|-------------------|---|-------------------------------|--------------------------|--|--------------------------|--|--------------------------|--|
| | | | GROUND ROLL - FEET | TOTAL DISTANCE TO CLEAR 50 FEET | GROUND ROLL - FEET | TOTAL DISTANCE TO CLEAR 50 FEET | GROUND ROLL - FEET | TOTAL DISTANCE TO CLEAR 50 FEET |
| 7450 | 100 | Sea Level | 1880 | 2470 | 2080 | 2800 | 2300 | 3230 |
| | | 1000 | 2000 | 2630 | 2210 | 3000 | 2450 | 3490 |
| | | 2000 | 2130 | 2810 | 2360 | 3210 | 2620 | 3780 |
| | | 3000 | 2270 | 3000 | 2510 | 3450 | 2790 | 4110 |
| | | 4000 | 2420 | 3210 | 2680 | 3720 | 2980 | 4500 |
| | | 5000 | 2580 | 3450 | 2860 | 4030 | 3190 | 4970 |
| | | 6000 | 2750 | 3710 | 3050 | 4380 | 3410 | 5570 |
| | | 7000 | 2940 | 4000 | 3270 | 4800 | 3650 | 6360 |
| | | 8000 | 3150 | 4330 | 3500 | 5290 | 3910 | 7570 |
| | | 9000 | 3370 | 4710 | 3750 | 5910 | 4200 | 9690 |
| | | 10,000 | 3610 | 5160 | 4020 | 6730 | 4510 | 15,290 |
| 6800 | 96 | Sea Level | 1510 | 1940 | 1660 | 2180 | 1840 | 2460 |
| | | 1000 | 1600 | 2060 | 1770 | 2320 | 1950 | 2630 |
| | | 2000 | 1700 | 2190 | 1880 | 2470 | 2080 | 2820 |
| | | 3000 | 1810 | 2340 | 2000 | 2640 | 2220 | 3020 |
| | | 4000 | 1930 | 2490 | 2130 | 2820 | 2370 | 3250 |
| | | 5000 | 2060 | 2660 | 2280 | 3020 | 2530 | 3500 |
| | | 6000 | 2190 | 2840 | 2430 | 3240 | 2700 | 3790 |
| | | 7000 | 2340 | 3040 | 2600 | 3490 | 2890 | 4130 |
| | | 8000 | 2500 | 3260 | 2780 | 3760 | 3090 | 4520 |
| | | 9000 | 2680 | 3500 | 2970 | 4080 | 3310 | 4990 |
| | | 10,000 | 2870 | 3770 | 3180 | 4430 | 3550 | 5570 |
| 6200 | 91 | Sea Level | 1180 | 1520 | 1300 | 1690 | 1460 | 1920 |
| | | 1000 | 1280 | 1640 | 1410 | 1820 | 1550 | 2040 |
| | | 2000 | 1360 | 1740 | 1500 | 1930 | 1650 | 2170 |
| | | 3000 | 1450 | 1840 | 1590 | 2060 | 1760 | 2320 |
| | | 4000 | 1540 | 1960 | 1700 | 2190 | 1880 | 2480 |
| | | 5000 | 1640 | 2080 | 1810 | 2340 | 2000 | 2650 |
| | | 6000 | 1750 | 2220 | 1930 | 2490 | 2140 | 2840 |
| | | 7000 | 1860 | 2370 | 2060 | 2670 | 2280 | 3050 |
| | | 8000 | 1990 | 2530 | 2200 | 2860 | 2440 | 3290 |
| | | 9000 | 2130 | 2700 | 2350 | 3060 | 2610 | 3550 |
| | | 10,000 | 2270 | 2890 | 2510 | 3300 | 2790 | 3850 |
| 5600 | 86 | Sea Level | 920 | 1190 | 1010 | 1310 | 1110 | 1460 |
| | | 1000 | 960 | 1260 | 1080 | 1390 | 1190 | 1550 |
| | | 2000 | 1040 | 1330 | 1140 | 1470 | 1290 | 1670 |
| | | 3000 | 1110 | 1410 | 1240 | 1590 | 1370 | 1780 |
| | | 4000 | 1210 | 1520 | 1320 | 1690 | 1460 | 1890 |
| | | 5000 | 1280 | 1620 | 1410 | 1800 | 1550 | 2010 |
| | | 6000 | 1360 | 1720 | 1500 | 1910 | 1660 | 2150 |
| | | 7000 | 1450 | 1830 | 1600 | 2040 | 1770 | 2290 |
| | | 8000 | 1550 | 1950 | 1710 | 2170 | 1890 | 2450 |
| | | 9000 | 1670 | 2090 | 1820 | 2320 | 2010 | 2630 |

SECTION 5
PERFORMANCE

 **421C**
MODEL

ACCELERATE STOP DISTANCE

CONDITIONS:

- 2235 RPM and 39.0 Inches Hg. Manifold Pressure Before Brake Release.
- Mixtures - CHECK Fuel Flows In the White Arc.
- Wing Flaps - UP.
- Level, Hard Surface, Dry Runway.
- Engine Failure at Engine Failure Speed.
- Idle Power and Maximum Effective Braking After Engine Failure.

NOTE:

- If full power is applied without brakes set, distances apply from point where full power is applied.
- Decrease distance 3% for each 4 knots headwind.
- Increase distance 5% for each 2 knots tailwind.

| WEIGHT - POUNDS | ENGINE FAILURE SPEED - KIAS | PRESSURE ALTITUDE - FEET | TOTAL DISTANCE - FEET | | | | | | | |
|--------------------|--------------------------------------|--------------------------------|-----------------------|----------------|-------------|----------------|----------------|----------------|-----------------|--|
| | | | -20°C -4°F | -10°C +14°F | 0°C 32°F | +10°C +50°F | +20°C +68°F | +30°C +86°F | +40°C +104°F | |
| 7450 | 100 | Sea Level | 2900 | 3090 | 3290 | 3510 | 3750 | 4010 | 4300 | |
| | | 1000 | 3030 | 3240 | 3450 | 3680 | 3940 | 4210 | 4520 | |
| | | 2000 | 3180 | 3390 | 3620 | 3870 | 4140 | 4430 | 4760 | |
| | | 3000 | 3340 | 3560 | 3800 | 4060 | 4350 | 4670 | 5020 | |
| | | 4000 | 3500 | 3740 | 4000 | 4270 | 4580 | 4910 | 5290 | |
| | | 5000 | 3680 | 3930 | 4200 | 4500 | 4820 | 5180 | 5580 | |
| | | 6000 | 3860 | 4130 | 4420 | 4740 | 5080 | 5470 | 5900 | |
| | | 7000 | 4060 | 4350 | 4660 | 4990 | 5360 | 5770 | 6240 | |
| | | 8000 | 4280 | 4580 | 4910 | 5260 | 5660 | 6100 | 6600 | |
| | | 9000 | 4510 | 4830 | 5180 | 5560 | 5980 | 6450 | 6990 | |
| | | 10,000 | 4750 | 5090 | 5460 | 5870 | 6320 | 6830 | 7410 | |
| 6800 | 96 | Sea Level | 2330 | 2480 | 2640 | 2850 | 3040 | 3240 | 3470 | |
| | | 1000 | 2440 | 2600 | 2800 | 2990 | 3190 | 3400 | 3650 | |
| | | 2000 | 2560 | 2760 | 2940 | 3130 | 3350 | 3580 | 3840 | |
| | | 3000 | 2710 | 2890 | 3080 | 3290 | 3520 | 3760 | 4040 | |
| | | 4000 | 2850 | 3040 | 3240 | 3460 | 3700 | 3960 | 4260 | |
| | | 5000 | 2990 | 3190 | 3400 | 3640 | 3890 | 4170 | 4490 | |
| | | 6000 | 3140 | 3350 | 3580 | 3830 | 4100 | 4400 | 4730 | |
| | | 7000 | 3300 | 3530 | 3770 | 4030 | 4320 | 4640 | 5000 | |
| | | 8000 | 3470 | 3710 | 3970 | 4250 | 4560 | 4900 | 5290 | |
| | | 9000 | 3650 | 3910 | 4180 | 4480 | 4810 | 5180 | 5590 | |
| | | 10,000 | 3850 | 4120 | 4420 | 4730 | 5090 | 5480 | 5920 | |
| 6200 | 91 | Sea Level | 1890 | 2010 | 2140 | 2280 | 2430 | 2590 | 2790 | |
| | | 1000 | 1980 | 2110 | 2240 | 2390 | 2570 | 2750 | 2930 | |
| | | 2000 | 2080 | 2210 | 2350 | 2530 | 2700 | 2880 | 3090 | |
| | | 3000 | 2180 | 2320 | 2500 | 2660 | 2840 | 3030 | 3250 | |
| | | 4000 | 2280 | 2460 | 2620 | 2800 | 2980 | 3190 | 3420 | |
| | | 5000 | 2420 | 2580 | 2750 | 2940 | 3140 | 3360 | 3600 | |
| | | 6000 | 2540 | 2710 | 2890 | 3090 | 3300 | 3540 | 3800 | |
| | | 7000 | 2670 | 2850 | 3050 | 3250 | 3480 | 3730 | 4010 | |
| | | 8000 | 2810 | 3000 | 3210 | 3430 | 3670 | 3930 | 4230 | |
| | | 9000 | 2960 | 3160 | 3380 | 3610 | 3870 | 4150 | 4470 | |
| | | 10,000 | 3120 | 3330 | 3560 | 3810 | 4090 | 4390 | 4730 | |
| 5600 | 86 | Sea Level | 1500 | 1600 | 1700 | 1800 | 1920 | 2040 | 2180 | |
| | | 1000 | 1570 | 1670 | 1780 | 1890 | 2010 | 2140 | 2290 | |
| | | 2000 | 1650 | 1750 | 1870 | 1980 | 2110 | 2250 | 2430 | |
| | | 3000 | 1730 | 1840 | 1960 | 2080 | 2220 | 2390 | 2560 | |
| | | 4000 | 1810 | 1930 | 2060 | 2190 | 2360 | 2520 | 2690 | |
| | | 5000 | 1900 | 2030 | 2160 | 2330 | 2480 | 2650 | 2830 | |
| | | 6000 | 2000 | 2130 | 2290 | 2440 | 2610 | 2790 | 2980 | |
| | | 7000 | 2100 | 2260 | 2410 | 2570 | 2750 | 2940 | 3150 | |
| | | 8000 | 2230 | 2380 | 2540 | 2710 | 2890 | 3090 | 3320 | |
| | | 9000 | 2380 | 2540 | 2710 | 2890 | 3090 | 3320 | | |

ACCELERATE GO DISTANCE

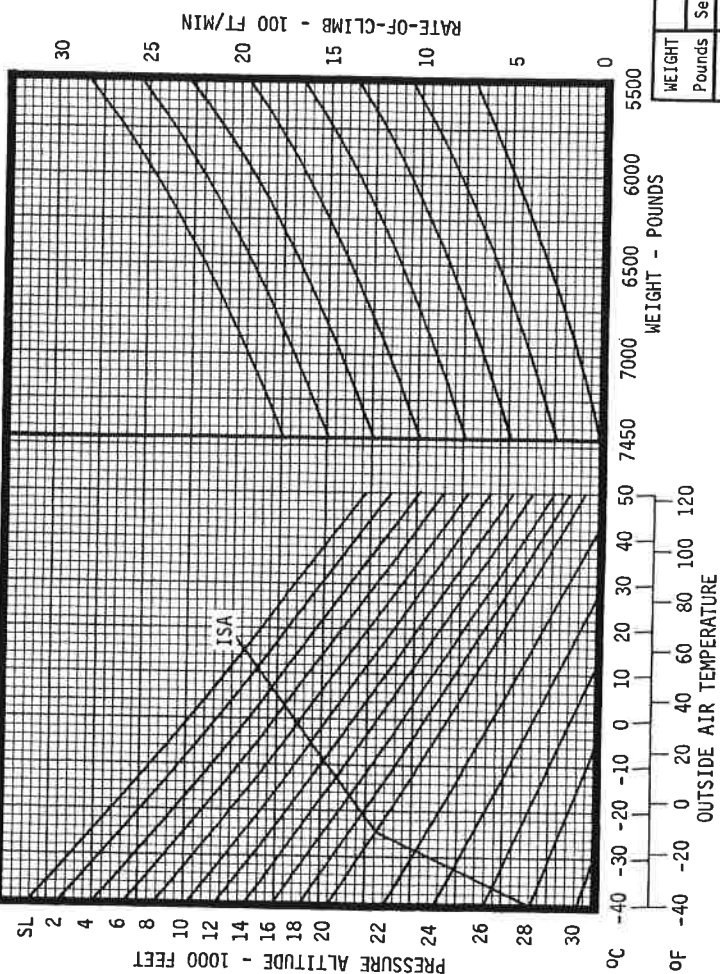
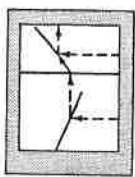
- CONDITIONS:**
- 2235 RPM and 39.0 Inches Hg. Manifold Pressure Before Brake Release.
 - Mixtures - CHECK Fuel Flows In the White Arc.
 - Wing Flaps - Up.
 - Level Hard Surface Dry Runway.
 - Engine Failure At Engine Failure Speed.
 - Propeller Feathered and Landing Gear Retracted During Climb.
 - Maintain Engine Failure Speed Until Clear of Obstacle.
- NOTE:**
- If full power is applied without brakes set, distances apply from point where full power is applied.
 - Decrease distance 6x for each 10 knots headwind.
 - Increase distance 2x for each 1 knot of tailwind.
 - Distance in boxes represent rates of climb less than 50 ft/min.

| WEIGHT - POUNDS | ENGINE FAILURE - SPEED - KIAS | PRESSURE ALTITUDE FEET | TOTAL DISTANCE TO CLEAR 50-FOOT OBSTACLE - FEET | | | | | | | | | |
|--------------------|--|------------------------------|---|----------------|-------------|----------------|----------------|----------------|-----------------|--|--|--|
| | | | -20°C -4°F | -10°C +14°F | 0°C 32°F | +10°C +50°F | +20°C +68°F | +30°C +86°F | +40°C +104°F | | | |
| 7450 | 100 | Sea Level | 2390 | 2770 | 3290 | 4120 | 5800 | 12,210 | ----- | | | |
| | | 1000 | 2550 | 2980 | 3590 | 4630 | 7020 | ----- | ----- | | | |
| | | 2000 | 2740 | 3220 | 3950 | 5280 | 9100 | ----- | ----- | | | |
| | | 3000 | 2940 | 3500 | 4390 | 6190 | 13,540 | ----- | ----- | | | |
| | | 4000 | 3170 | 3830 | 4940 | 7570 | ----- | ----- | ----- | | | |
| | | 5000 | 3440 | 4220 | 5670 | 9990 | ----- | ----- | ----- | | | |
| | | 6000 | 3750 | 4710 | 6710 | 15,590 | ----- | ----- | ----- | | | |
| | | 7000 | 4120 | 5340 | 8330 | ----- | ----- | ----- | ----- | | | |
| | | 8000 | 4570 | 6190 | 11,350 | ----- | ----- | ----- | ----- | | | |
| | | 9000 | 5130 | 7430 | ----- | ----- | ----- | ----- | ----- | | | |
| 6800 | 96 | 10,000 | 5870 | 9480 | ----- | ----- | ----- | ----- | ----- | | | |
| | | Sea Level | 1770 | 2000 | 2270 | 2670 | 3180 | 4010 | 5770 | | | |
| | | 1000 | 1880 | 2120 | 2460 | 2870 | 3470 | 4510 | 7070 | | | |
| | | 2000 | 2000 | 2290 | 2640 | 3100 | 3820 | 5170 | 9360 | | | |
| | | 3000 | 2150 | 2450 | 2830 | 3370 | 4240 | 6080 | 14,690 | | | |
| | | 4000 | 2290 | 2620 | 3050 | 3690 | 4780 | 7480 | ----- | | | |
| | | 5000 | 2450 | 2810 | 3310 | 4060 | 5490 | 9990 | ----- | | | |
| | | 6000 | 2620 | 3030 | 3600 | 4530 | 6480 | 16,070 | ----- | | | |
| | | 7000 | 2810 | 3270 | 3950 | 5120 | 8040 | ----- | ----- | | | |
| | | 8000 | 3020 | 3560 | 4370 | 5900 | 10,930 | ----- | ----- | | | |
| 6200 | 91 | 9000 | 3270 | 3890 | 4890 | 7040 | ----- | ----- | ----- | | | |
| | | 10,000 | 3550 | 4280 | 5560 | 8880 | ----- | ----- | ----- | | | |
| | | Sea Level | 1380 | 1530 | 1710 | 1930 | 2200 | 2570 | 3120 | | | |
| | | 1000 | 1460 | 1620 | 1810 | 2050 | 2380 | 2800 | 3420 | | | |
| | | 2000 | 1540 | 1720 | 1930 | 2210 | 2550 | 3030 | 3780 | | | |
| | | 3000 | 1630 | 1820 | 2080 | 2360 | 2740 | 3290 | 4220 | | | |
| | | 4000 | 1730 | 1960 | 2210 | 2530 | 2960 | 3610 | 4780 | | | |
| | | 5000 | 1860 | 2080 | 2360 | 2720 | 3210 | 3980 | 5540 | | | |
| | | 6000 | 1970 | 2220 | 2520 | 2920 | 3500 | 4450 | 6650 | | | |
| | | 7000 | 2100 | 2370 | 2710 | 3160 | 3840 | 5050 | 8470 | | | |
| 5600 | 86 | 8000 | 2240 | 2540 | 2910 | 3430 | 4250 | 5860 | 12,200 | | | |
| | | 9000 | 2390 | 2720 | 3150 | 3750 | 4760 | 7060 | ----- | | | |
| | | 10,000 | 2560 | 2930 | 3410 | 4130 | 5420 | 9060 | ----- | | | |
| | | Sea Level | 1070 | 1180 | 1300 | 1440 | 1640 | 1820 | 2090 | | | |
| | | 1000 | 1130 | 1240 | 1370 | 1530 | 1710 | 1940 | 2240 | | | |
| | | 2000 | 1190 | 1310 | 1450 | 1620 | 1820 | 2070 | 2430 | | | |
| | | 3000 | 1260 | 1390 | 1540 | 1720 | 1930 | 2240 | 2610 | | | |
| | | 4000 | 1330 | 1470 | 1630 | 1820 | 2090 | 2390 | 2820 | | | |
| | | 5000 | 1400 | 1550 | 1730 | 1960 | 2230 | 2570 | 3050 | | | |
| | | 6000 | 1490 | 1650 | 1860 | 2090 | 2380 | 2760 | 3330 | | | |
| 5000 | 80 | 7000 | 1580 | 1770 | 1980 | 2230 | 2550 | 2990 | 3650 | | | |
| | | 8000 | 1690 | 1880 | 2110 | 2380 | 2740 | 3240 | 4050 | | | |
| | | 9000 | 1800 | 2000 | 2240 | 2560 | 2960 | 3540 | 4400 | | | |
| | | 10,000 | 1910 | 2120 | 2370 | 2710 | 3140 | 3740 | 4650 | | | |
| | | Sea Level | 1070 | 1180 | 1300 | 1440 | 1640 | 1820 | 2090 | | | |
| | | 1000 | 1130 | 1240 | 1370 | 1530 | 1710 | 1940 | 2240 | | | |
| | | 2000 | 1190 | 1310 | 1450 | 1620 | 1820 | 2070 | 2430 | | | |
| | | 3000 | 1260 | 1390 | 1540 | 1720 | 1930 | 2240 | 2610 | | | |
| | | 4000 | 1330 | 1470 | 1630 | 1820 | 2090 | 2390 | 2820 | | | |
| | | 5000 | 1400 | 1550 | 1730 | 1960 | 2230 | 2570 | 3050 | | | |
| 4400 | 75 | 6000 | 1490 | 1650 | 1860 | 2090 | 2380 | 2760 | 3330 | | | |
| | | 7000 | 1580 | 1770 | 1980 | 2230 | 2550 | 2990 | 3650 | | | |
| | | 8000 | 1690 | 1880 | 2110 | 2380 | 2740 | 3240 | 4050 | | | |
| | | 9000 | 1800 | 2000 | 2240 | 2560 | 2960 | 3540 | 4400 | | | |
| | | 10,000 | 1910 | 2120 | 2370 | 2710 | 3140 | 3740 | 4650 | | | |
| | | Sea Level | 1070 | 1180 | 1300 | 1440 | 1640 | 1820 | 2090 | | | |
| | | 1000 | 1130 | 1240 | 1370 | 1530 | 1710 | 1940 | 2240 | | | |
| | | 2000 | 1190 | 1310 | 1450 | 1620 | 1820 | 2070 | 2430 | | | |
| | | 3000 | 1260 | 1390 | 1540 | 1720 | 1930 | 2240 | 2610 | | | |
| | | 4000 | 1330 | 1470 | 1630 | 1820 | 2090 | 2390 | 2820 | | | |
| 3800 | 70 | 5000 | 1400 | 1550 | 1730 | 1960 | 2230 | 2570 | 3050 | | | |
| | | 6000 | 1490 | 1650 | 1860 | 2090 | 2380 | 2760 | 3330 | | | |
| | | 7000 | 1580 | 1770 | 1980 | 2230 | 2550 | 2990 | 3650 | | | |
| | | 8000 | 1690 | 1880 | 2110 | 2380 | 2740 | 3240 | 4050 | | | |
| | | 9000 | 1800 | 2000 | 2240 | 2560 | 2960 | 3540 | 4400 | | | |
| | | 10,000 | 1910 | 2120 | 2370 | 2710 | 3140 | 3740 | 4650 | | | |
| | | Sea Level | 1070 | 1180 | 1300 | 1440 | 1640 | 1820 | 2090 | | | |
| | | 1000 | 1130 | 1240 | 1370 | 1530 | 1710 | 1940 | 2240 | | | |
| | | 2000 | 1190 | 1310 | 1450 | 1620 | 1820 | 2070 | 2430 | | | |
| | | 3000 | 1260 | 1390 | 1540 | 1720 | 1930 | 2240 | 2610 | | | |
| 3200 | 65 | 4000 | 1330 | 1470 | 1630 | 1820 | 2090 | 2390 | 2820 | | | |
| | | 5000 | 1400 | 1550 | 1730 | 1960 | 2230 | 2570 | 3050 | | | |
| | | 6000 | 1490 | 1650 | 1860 | 2090 | 2380 | 2760 | 3330 | | | |
| | | 7000 | 1580 | 1770 | 1980 | 2230 | 2550 | 2990 | 3650 | | | |
| | | 8000 | 1690 | 1880 | 2110 | 2380 | 2740 | 3240 | 4050 | | | |
| | | 9000 | 1800 | 2000 | 2240 | 2560 | 2960 | 3540 | 4400 | | | |
| | | 10,000 | 1910 | 2120 | 2370 | 2710 | 3140 | 3740 | 4650 | | | |
| | | Sea Level | 1070 | 1180 | 1300 | 1440 | 1640 | 1820 | 2090 | | | |
| | | 1000 | 1130 | 1240 | 1370 | 1530 | 1710 | 1940 | 2240 | | | |
| | | 2000 | 1190 | 1310 | 1450 | 1620 | 1820 | 2070 | 2430 | | | |
| 2600 | 60 | 3000 | 1260 | 1390 | 1540 | 1720 | 1930 | 2240 | 2610 | | | |
| | | 4000 | 1330 | 1470 | 1630 | 1820 | 2090 | 2390 | 2820 | | | |
| | | 5000 | 1400 | 1550 | 1730 | 1960 | 2230 | 2570 | 3050 | | | |
| | | 6000 | 1490 | 1650 | 1860 | 2090 | 2380 | 2760 | 3330 | | | |
| | | 7000 | 1580 | 1770 | 1980 | 2230 | 2550 | 2990 | 3650 | | | |
| | | 8000 | 1690 | 1880 | 2110 | 2380 | 2740 | 3240 | 4050 | | | |
| | | 9000 | 1800 | 2000 | 2240 | 2560 | 2960 | 3540 | 4400 | | | |
| | | 10,000 | 1910 | 2120 | 2370 | 2710 | 3140 | 3740 | 4650 | | | |
| | | Sea Level | 1070 | 1180 | 1300 | 1440 | 1640 | 1820 | 2090 | | | |
| | | 1000 | 1130 | 1240 | 1370 | 1530 | 1710 | 1940 | 2240 | | | |

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RATE-OF-CLIMB - MAXIMUM CLIMB



- CONDITIONS:
1. 2235 RPM and 39.0 Inches Hg. to 20,000 Feet. Use Placarded Manifold Pressure Above 20,000 Feet.
 2. Landing Gear - UP.
 3. Wing Flaps - UP.
 4. Mixture at Recommended Fuel Flow.

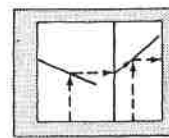
| WEIGHT Pounds | CLIMB SPEED - KIAS | | |
|------------------|--------------------|-------------|-------------|
| | Sea Level | 20,000 Feet | 30,000 Feet |
| 7450 | 111 | 105 | 100 |
| 6800 | 106 | 99 | 95 |
| 6200 | 99 | 95 | 91 |
| 5600 | 95 | 90 | 86 |

Figure 5-13

RATE-OF-CLIMB - CRUISE CLIMB

CONDITIONS:

1. 1900 RPM and 32.5 Inches Hg.
2. Landing Gear - UP.
3. Wing Flaps - UP.
4. Airspeed - 120 KIAS.
5. Mixtures - Recommended Fuel Flow.



Cessna
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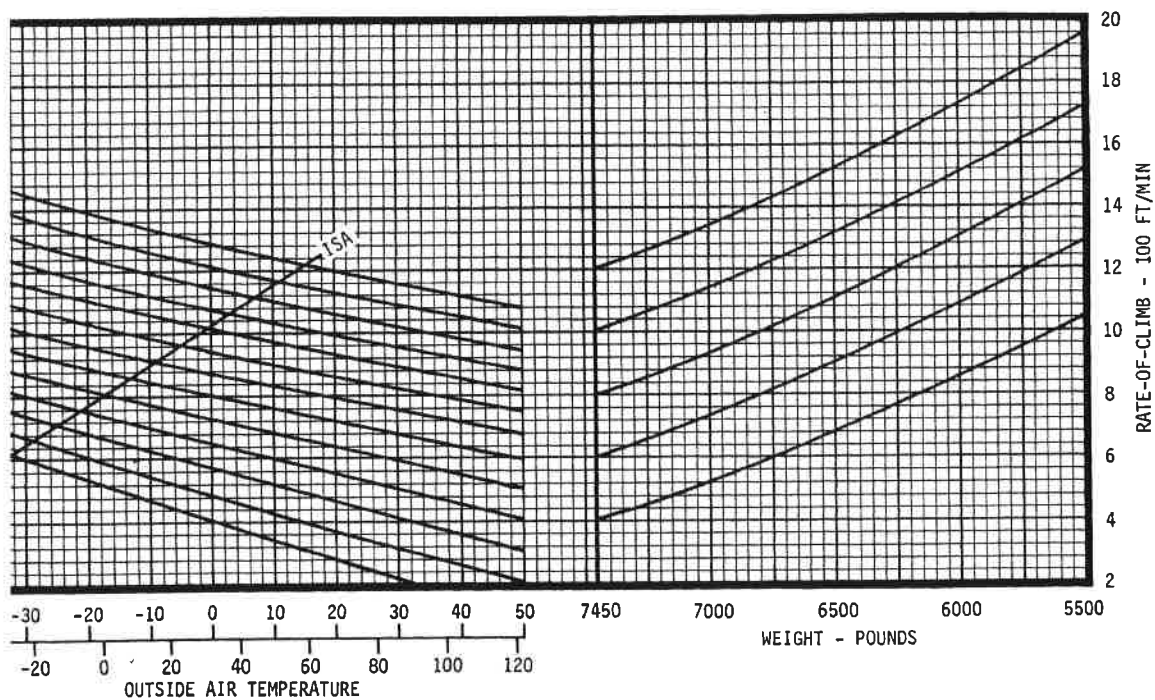
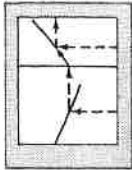


Figure 5-14

SECTION 5
PERFORMANCE

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CONDITIONS:

1. 2235 RPM and 39.0 Inches Hg. to 20,000 Feet. Use Placarded Manifold Pressure Above 20,000 Feet.
2. Mixture - CHECK Fuel Flow in the White Arc.
3. Landing Gear - UP.
4. Wing Flaps - UP.
5. Inoperative Propeller - FEATHERED.
6. Wings Banked 5° Toward Operative Engine With Approximately 1/2 Ball Slip Indicated on the Turn and Bank Indicator.
7. Cowl Flaps - CLOSED on Inoperative Engine (If Installed).

NOTE: Approximate Effect of Configuration on Single-Engine Rate-of-Climb.

Subtract values listed below from value obtained in above graph. Effects for a combination of gear, flap or windmilling propeller may be obtained by adding the effects for each.

| | |
|--------------------|------------|
| Inoperative Engine | 400 Ft/Min |
| Windmilling | 350 Ft/Min |
| Gear Down | 150 Ft/Min |
| Flaps Down 15° | 200 Ft/Min |
| Flaps Down 45° | 800 Ft/Min |

RATE-OF-CLIMB - ONE ENGINE INOPERATIVE

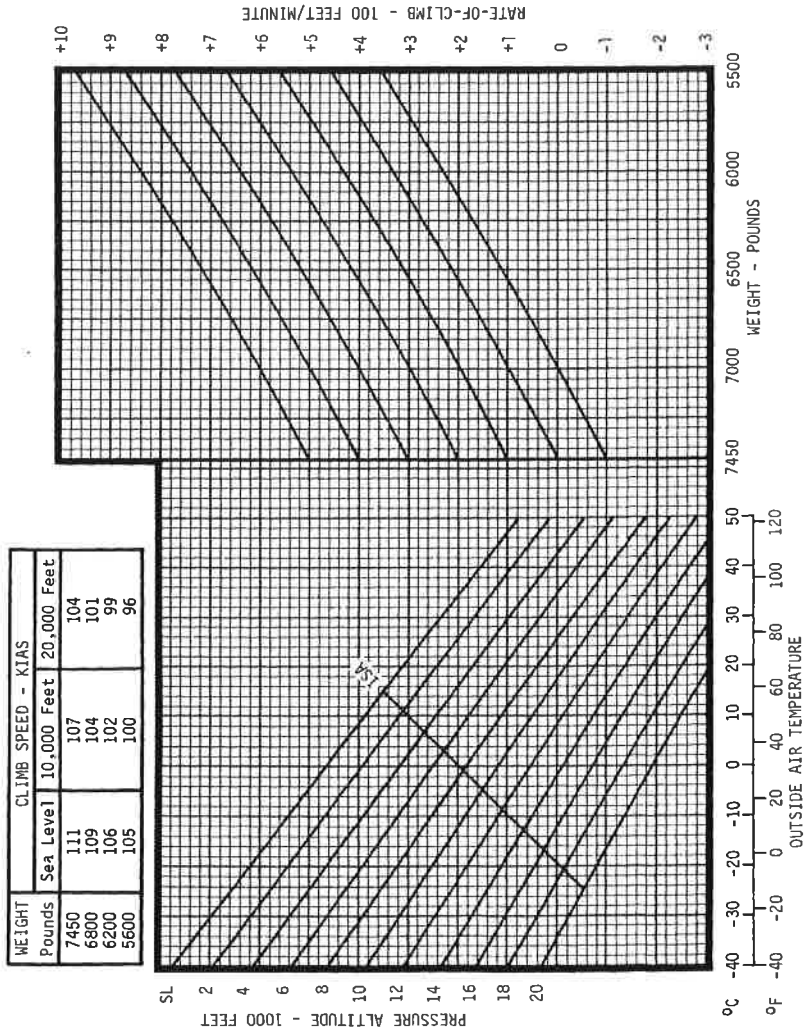


Figure 5-15

RATE-OF-CLIMB - BALKED LANDING CLIMB

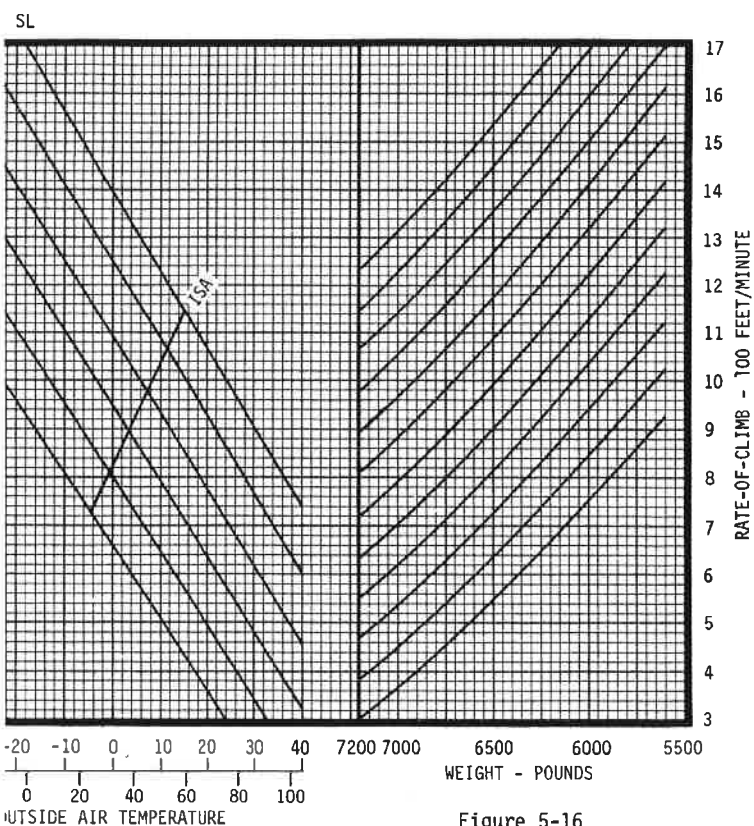
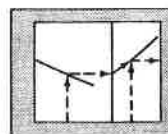


Figure 5-16



- CONDITIONS:
1. 2235 RPM and 39.0 Inches Hg.
 2. Mixtures - CHECK Fuel Flows In The White Arc.
 3. Landing Gear - DOWN.
 4. Wing Flaps - 45°.
 5. Climb Speed - 96 KIAS.

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421C

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ENGINE INOPERATIVE SERVICE CEILING

CONDITIONS:

1. Engine Inoperative Climb Configuration.

NOTE:

1. Engine inoperative service ceiling is the maximum altitude where the airplane has the capability of climbing 50 feet per minute with one engine inoperative and feathered.
2. Increase indicated service ceiling 100 feet for each 0.10 inches Hg. altimeter setting greater than 29.92.
3. Decrease indicated service ceiling 100 feet for each 0.10 inches Hg. altimeter setting less than 29.92.
4. This chart provides performance information to aid in route selection when operating under FAR 135.145 and 91.119 requirements.

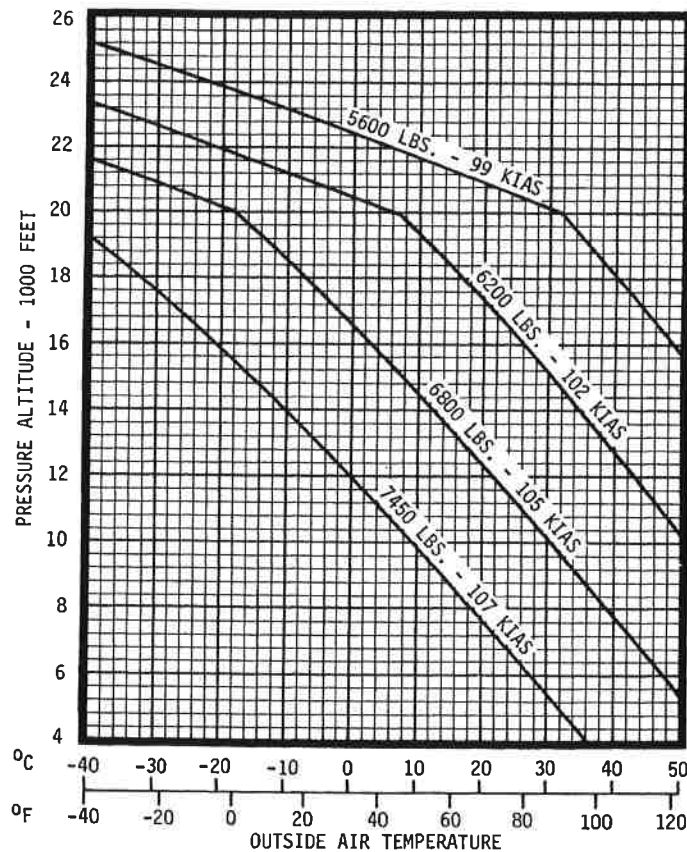
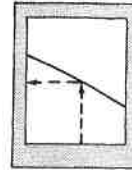
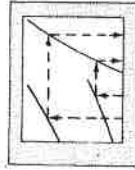


Figure 5-17



TIME, FUEL AND DISTANCE TO CLIMB - MAXIMUM CLIMB

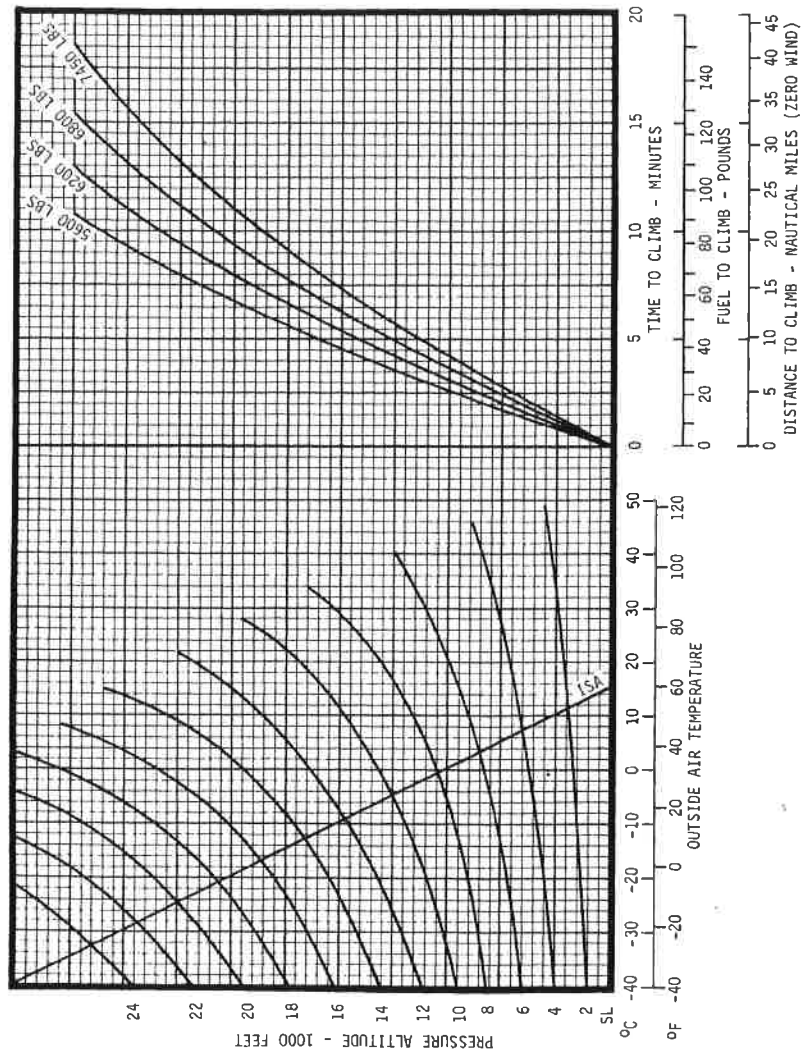


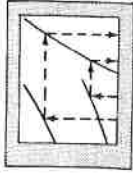
Figure 5-18

- CONDITIONS:
1. 2235 RPM and 39.0 Inches Hg. to 20,000 Feet. Use Placarded Manifold Pressure Above 20,000 Feet.
 2. Landing Gear - UP.
 3. Wing Flaps - UP.
 4. Mixture at Recommended Fuel Flow.

- NOTE:
1. Time, fuel and distance for the climb are determined by taking the difference between the airport altitude and initial cruise altitude conditions.
 2. For total fuel used, add 46 pounds for start, taxi and takeoff.

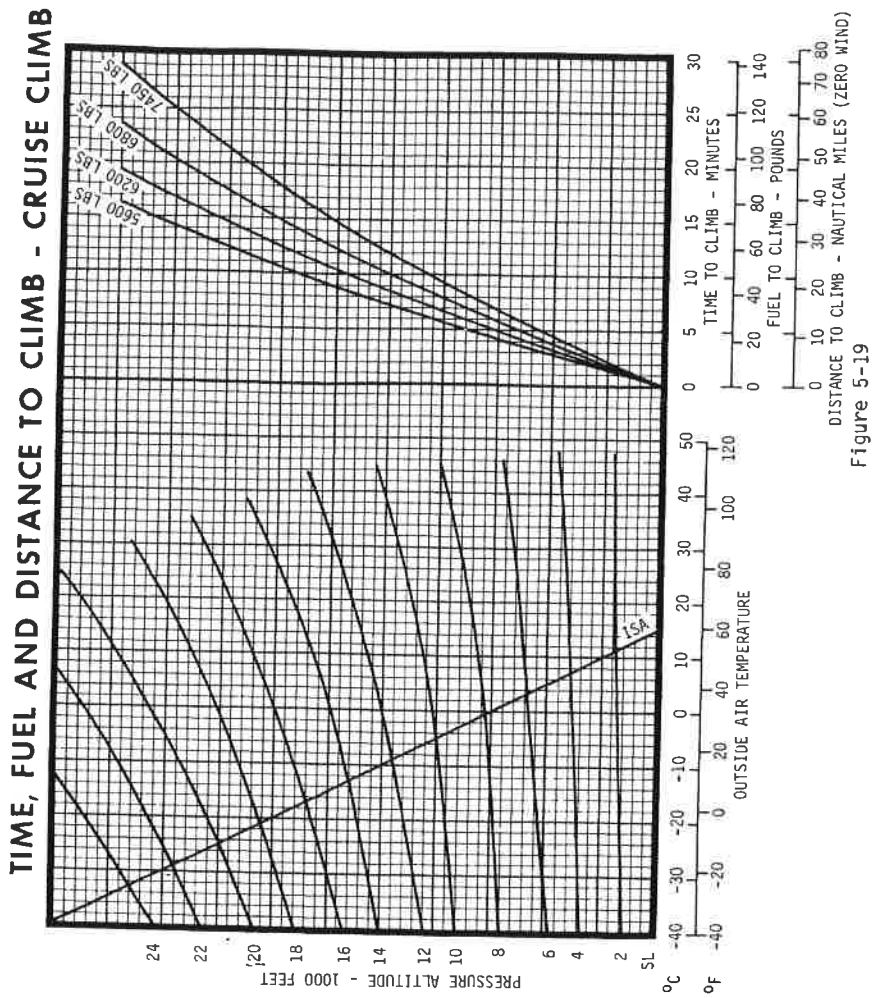
SECTION 5
PERFORMANCE

Cessna
MODEL 421C



- CONDITIONS:
1. 1900 RPM and 32.5 Inches Hg.
 2. Landing Gear - UP.
 3. Wing Flaps - UP.
 4. Airspeed - 120 KIAS.
 5. Fuel Flow - BLUE TRIANGLE.

- NOTE:
1. Time, fuel and distance for the climb are determined by taking the difference between the airport altitude and initial cruise altitude conditions.
 2. For total fuel used, add 46 pounds for start, taxi and takeoff.



CRUISE PERFORMANCE WITH RECOMMENDED LEAN MIXTURE

NOTE:

1. At Sea Level, increase speed by 4 KTAS for each 1000 pounds below 7450 pounds.
2. At 5000 feet, increase speed by 4 KTAS for each 1000 pounds below 7450 pounds.
3. Operations at peak EGT may be utilized with power settings within the boxes if the airplane is equipped with the optional EGT system.

| ALTITUDE | RPM | MP | -5°C (23°F) | | | 15°C (STD TEMP) (59°F) | | | 35°C (95°F) | | |
|--------------|------|------|----------------|------|----------------|---------------------------|------|----------------|----------------|------|----------------|
| | | | PERCENT BHP | KTAS | TOTAL LB/HR | PERCENT BHP | KTAS | TOTAL LB/HR | PERCENT BHP | KTAS | TOTAL LB/HR |
| SEA LEVEL | 1900 | 32.5 | 78.0 | 186 | 271 | 73.5 | 186 | 257 | 69.0 | 185 | 242 |
| | 1900 | 31.0 | 74.3 | 183 | 260 | 70.0 | 183 | 246 | 65.7 | 182 | 231 |
| | 1900 | 29.0 | 68.8 | 177 | 241 | 64.8 | 177 | 228 | 60.8 | 176 | 216 |
| | 1900 | 27.0 | 63.0 | 171 | 223 | 59.3 | 171 | 211 | 55.7 | 170 | 200 |
| | 1900 | 25.0 | 57.1 | 165 | 204 | 53.8 | 164 | 194 | 50.5 | 163 | 183 |
| | 1800 | 32.5 | 73.2 | 182 | 256 | 69.0 | 182 | 242 | 64.8 | 181 | 228 |
| | 1800 | 31.0 | 69.9 | 178 | 245 | 65.9 | 178 | 232 | 61.8 | 177 | 219 |
| | 1800 | 29.0 | 64.3 | 173 | 227 | 60.6 | 172 | 215 | 56.9 | 171 | 204 |
| | 1800 | 27.0 | 58.8 | 167 | 210 | 55.4 | 166 | 199 | 52.0 | 165 | 188 |
| | 1800 | 25.0 | 53.0 | 160 | 191 | 49.9 | 159 | 181 | 46.9 | 157 | 172 |
| | 1800 | 23.0 | 47.4 | 152 | 173 | 44.7 | 151 | 165 | 42.0 | 149 | 156 |
| | 1700 | 32.5 | 69.2 | 178 | 243 | 65.2 | 177 | 230 | 61.2 | 177 | 217 |
| | 1700 | 31.0 | 65.5 | 174 | 230 | 61.7 | 174 | 219 | 57.9 | 173 | 207 |
| | 1700 | 29.0 | 60.5 | 169 | 215 | 57.0 | 168 | 204 | 53.5 | 167 | 193 |
| | 1700 | 27.0 | 54.9 | 162 | 197 | 51.7 | 161 | 187 | 48.6 | 160 | 177 |
| | 1700 | 25.0 | 49.6 | 155 | 180 | 46.8 | 154 | 171 | 43.9 | 152 | 162 |
| | 1700 | 23.0 | 44.1 | 147 | 163 | 41.6 | 146 | 155 | 39.0 | 143 | 147 |
| | 1600 | 32.5 | 63.4 | 172 | 224 | 59.7 | 171 | 212 | 56.1 | 170 | 201 |
| | 1600 | 31.0 | 60.0 | 168 | 213 | 56.6 | 168 | 203 | 53.1 | 166 | 192 |
| | 1600 | 29.0 | 55.3 | 163 | 199 | 52.1 | 162 | 188 | 48.9 | 160 | 178 |
| | 1600 | 27.0 | 50.3 | 156 | 183 | 47.4 | 155 | 173 | 44.5 | 153 | 164 |
| | 1600 | 25.0 | 45.5 | 149 | 167 | 42.9 | 148 | 159 | 40.2 | 145 | 151 |
| 5000 FEET | RPM | MP | -15°C (5°F) | | | 5°C (STD TEMP) (41°F) | | | 25°C (77°F) | | |
| | | | PERCENT BHP | KTAS | TOTAL LB/HR | PERCENT BHP | KTAS | TOTAL LB/HR | PERCENT BHP | KTAS | TOTAL LB/HR |
| 5000 FEET | 1900 | 32.5 | 78.0 | 195 | 271 | 73.5 | 195 | 257 | 69.0 | 194 | 242 |
| | 1900 | 31.0 | 74.3 | 191 | 260 | 70.0 | 191 | 246 | 65.7 | 190 | 231 |
| | 1900 | 29.0 | 68.8 | 185 | 241 | 64.8 | 185 | 228 | 60.8 | 184 | 216 |
| | 1900 | 27.0 | 63.0 | 179 | 223 | 59.3 | 178 | 211 | 55.7 | 177 | 200 |
| | 1900 | 25.0 | 57.1 | 172 | 204 | 53.8 | 171 | 194 | 50.5 | 170 | 183 |
| | 1800 | 32.5 | 73.2 | 190 | 256 | 69.0 | 190 | 242 | 64.8 | 189 | 228 |
| | 1800 | 31.0 | 69.9 | 187 | 245 | 65.9 | 186 | 232 | 61.8 | 185 | 219 |
| | 1800 | 29.0 | 64.3 | 181 | 227 | 60.6 | 180 | 215 | 56.9 | 179 | 204 |
| | 1800 | 27.0 | 58.8 | 174 | 210 | 55.4 | 173 | 199 | 52.0 | 172 | 188 |
| | 1800 | 25.0 | 53.0 | 167 | 191 | 49.9 | 165 | 181 | 46.9 | 164 | 172 |
| | 1800 | 23.0 | 47.4 | 158 | 173 | 44.7 | 157 | 165 | 42.0 | 154 | 156 |
| | 1700 | 32.5 | 69.2 | 186 | 243 | 65.2 | 186 | 230 | 61.2 | 184 | 217 |
| | 1700 | 31.0 | 65.5 | 182 | 230 | 61.7 | 181 | 219 | 57.9 | 180 | 207 |
| | 1700 | 29.0 | 60.5 | 176 | 215 | 57.0 | 175 | 204 | 53.5 | 174 | 193 |
| | 1700 | 27.0 | 54.9 | 169 | 197 | 51.7 | 168 | 187 | 48.6 | 166 | 177 |
| | 1700 | 25.0 | 49.6 | 162 | 180 | 46.8 | 161 | 171 | 43.9 | 158 | 162 |
| | 1700 | 23.0 | 44.1 | 153 | 163 | 41.6 | 151 | 155 | 39.0 | 146 | 147 |
| | 1600 | 32.5 | 63.4 | 179 | 224 | 59.7 | 179 | 212 | 56.1 | 178 | 201 |
| | 1600 | 31.0 | 60.0 | 176 | 213 | 56.6 | 175 | 203 | 53.1 | 173 | 192 |
| | 1600 | 29.0 | 55.3 | 170 | 199 | 52.1 | 169 | 188 | 48.9 | 167 | 178 |
| | 1600 | 27.0 | 50.3 | 163 | 183 | 47.4 | 162 | 173 | 44.5 | 159 | 164 |
| | 1600 | 25.0 | 45.5 | 155 | 167 | 42.9 | 153 | 159 | 40.2 | 149 | 151 |

Figure 5-20 (Sheet 1 of 3)

CRUISE PERFORMANCE WITH RECOMMENDED LEAN MIXTURE

NOTE:

1. At 10,000 Feet, increase speed by 5 KTAS for each 1000 pounds below 7450 pounds.
2. At 15,000 Feet, increase speed by 6 KTAS for each 1000 pounds below 7450 pounds.
3. Operations at peak EGT may be utilized with power settings within the boxes if the airplane is equipped with the optional EGT system.

| ALTITUDE | RPM | MP | -25°C (-13°F) | | | -5°C (STD TEMP) (23°F) | | | 15°C (59°F) | | |
|----------------|------|------|------------------|------|----------------|---------------------------|------|----------------|----------------|------|----------------|
| | | | PERCENT BHP | KTAS | TOTAL LB/HR | PERCENT BHP | KTAS | TOTAL LB/HR | PERCENT BHP | KTAS | TOTAL LB/HR |
| 10,000 FEET | 1900 | 32.5 | 78.0 | 204 | 271 | 73.5 | 204 | 257 | 69.0 | 203 | 242 |
| | 1900 | 31.0 | 74.3 | 200 | 260 | 70.0 | 200 | 246 | 65.7 | 199 | 231 |
| | 1900 | 29.0 | 68.8 | 194 | 241 | 64.8 | 194 | 228 | 60.8 | 193 | 216 |
| | 1900 | 27.0 | 63.0 | 187 | 223 | 59.3 | 187 | 211 | 55.7 | 185 | 200 |
| | 1900 | 25.0 | 57.1 | 180 | 204 | 53.8 | 179 | 194 | 50.5 | 177 | 183 |
| | 1800 | 32.5 | 73.2 | 199 | 256 | 69.0 | 199 | 242 | 64.8 | 198 | 228 |
| | 1800 | 31.0 | 69.9 | 195 | 245 | 65.9 | 195 | 232 | 61.8 | 194 | 219 |
| | 1800 | 29.0 | 64.3 | 189 | 227 | 60.6 | 188 | 215 | 56.9 | 187 | 204 |
| | 1800 | 27.0 | 58.8 | 182 | 210 | 55.4 | 181 | 199 | 52.0 | 179 | 188 |
| | 1800 | 25.0 | 53.0 | 173 | 191 | 49.9 | 172 | 181 | 46.9 | 169 | 172 |
| | 1800 | 23.0 | 47.4 | 165 | 173 | 44.7 | 162 | 165 | 42.0 | 157 | 156 |
| | 1700 | 32.5 | 69.2 | 194 | 243 | 65.2 | 194 | 230 | 61.2 | 193 | 217 |
| | 1700 | 31.0 | 65.5 | 190 | 230 | 61.7 | 190 | 219 | 57.9 | 188 | 207 |
| | 1700 | 29.0 | 60.5 | 184 | 215 | 57.0 | 183 | 204 | 53.5 | 182 | 193 |
| | 1700 | 27.0 | 54.9 | 176 | 197 | 51.7 | 175 | 187 | 48.6 | 173 | 177 |
| | 1700 | 25.0 | 49.6 | 169 | 180 | 46.8 | 167 | 171 | 43.9 | 163 | 162 |
| | 1700 | 23.0 | 44.1 | 158 | 163 | 41.6 | 155 | 155 | 39.0 | 145 | 147 |
| | 1600 | 32.5 | 63.4 | 188 | 224 | 59.7 | 187 | 212 | 56.1 | 185 | 201 |
| | 1600 | 31.0 | 60.0 | 183 | 213 | 56.6 | 183 | 203 | 53.1 | 181 | 192 |
| | 1600 | 29.0 | 55.3 | 177 | 199 | 52.1 | 176 | 188 | 48.9 | 174 | 178 |
| | 1600 | 27.0 | 50.3 | 170 | 183 | 47.4 | 168 | 173 | 44.5 | 164 | 164 |
| | 1600 | 25.0 | 45.5 | 161 | 167 | 42.9 | 158 | 159 | 40.2 | 151 | 151 |
| | | | -35°C (-30°F) | | | -15°C (STD TEMP) (6°F) | | | 5°C (42°F) | | |
| 15,000 FEET | 1900 | 32.5 | 78.0 | 214 | 271 | 73.5 | 214 | 257 | 69.0 | 213 | 242 |
| | 1900 | 31.0 | 74.3 | 210 | 260 | 70.0 | 210 | 246 | 65.7 | 208 | 231 |
| | 1900 | 29.0 | 68.8 | 203 | 241 | 64.8 | 203 | 228 | 60.8 | 201 | 216 |
| | 1900 | 27.0 | 63.0 | 196 | 223 | 59.3 | 195 | 211 | 55.7 | 193 | 200 |
| | 1900 | 25.0 | 57.1 | 187 | 204 | 53.8 | 186 | 194 | 50.5 | 183 | 183 |
| | 1800 | 32.5 | 73.2 | 209 | 256 | 69.0 | 208 | 242 | 64.8 | 207 | 228 |
| | 1800 | 31.0 | 69.9 | 205 | 245 | 65.9 | 204 | 232 | 61.8 | 203 | 219 |
| | 1800 | 29.0 | 64.3 | 198 | 227 | 60.6 | 197 | 215 | 56.9 | 195 | 204 |
| | 1800 | 27.0 | 58.8 | 190 | 210 | 55.4 | 189 | 199 | 52.0 | 186 | 188 |
| | 1800 | 25.0 | 53.0 | 181 | 191 | 49.9 | 179 | 181 | 46.9 | 174 | 172 |
| | 1800 | 23.0 | 47.4 | 171 | 173 | 44.7 | 166 | 165 | 42.0 | 153 | 156 |
| | 1700 | 32.5 | 69.2 | 204 | 243 | 65.2 | 203 | 230 | 61.2 | 202 | 217 |
| | 1700 | 31.0 | 65.5 | 199 | 230 | 61.7 | 198 | 219 | 57.9 | 197 | 207 |
| | 1700 | 29.0 | 60.5 | 192 | 215 | 57.0 | 191 | 204 | 53.5 | 189 | 193 |
| | 1700 | 27.0 | 54.9 | 184 | 197 | 51.7 | 183 | 187 | 48.6 | 179 | 177 |
| | 1700 | 25.0 | 49.6 | 175 | 180 | 46.8 | 172 | 171 | 43.9 | 165 | 162 |
| | 1600 | 32.5 | 63.4 | 196 | 224 | 59.7 | 195 | 212 | 56.1 | 194 | 201 |
| | 1600 | 31.0 | 60.0 | 192 | 213 | 56.6 | 191 | 203 | 53.1 | 188 | 192 |
| | 1600 | 29.0 | 55.3 | 185 | 199 | 52.1 | 183 | 188 | 48.9 | 180 | 178 |
| | 1600 | 27.0 | 50.3 | 177 | 183 | 47.4 | 174 | 173 | 44.5 | 167 | 164 |

Figure 5-20 (Sheet 2 of 3)

CRUISE PERFORMANCE WITH RECOMMENDED LEAN MIXTURE

NOTE:

1. At 20,000 Feet, increase speed by 6 KTAS for each 1000 pounds below 7450 pounds.
2. At 25,000 Feet, increase speed by 6 KTAS for each 1000 pounds below 7450 pounds.
3. Operations at peak EGT may be utilized with power settings within the boxes if the airplane is equipped with the optional EGT system.

| ALTITUDE | RPM | MP | -45°C (-48°F) | | | -25°C (STD TEMP) (-12°F) | | | -5°C (24°F) | | |
|----------------|------|------|------------------|------|----------------|-----------------------------|------|----------------|----------------|------|----------------|
| | | | PERCENT BHP | KTAS | TOTAL LB/HR | PERCENT BHP | KTAS | TOTAL LB/HR | PERCENT BHP | KTAS | TOTAL LB/HR |
| 20,000 FEET | 1900 | 32.5 | 78.0 | 225 | 271 | 73.5 | 224 | 257 | 69.0 | 223 | 242 |
| | 1900 | 31.0 | 74.3 | 220 | 260 | 70.0 | 220 | 246 | 65.7 | 218 | 231 |
| | 1900 | 29.0 | 68.8 | 213 | 241 | 64.8 | 212 | 228 | 60.8 | 211 | 216 |
| | 1900 | 27.0 | 63.0 | 205 | 223 | 59.3 | 204 | 211 | 55.7 | 201 | 200 |
| | 1900 | 25.0 | 57.1 | 196 | 204 | 53.8 | 194 | 194 | 50.5 | 188 | 183 |
| | 1800 | 32.5 | 73.2 | 219 | 256 | 69.0 | 219 | 242 | 64.8 | 217 | 228 |
| | 1800 | 31.0 | 69.9 | 214 | 245 | 65.9 | 214 | 232 | 61.8 | 212 | 219 |
| | 1800 | 29.0 | 64.3 | 207 | 227 | 60.6 | 206 | 215 | 56.9 | 203 | 204 |
| | 1800 | 27.0 | 58.8 | 199 | 210 | 55.4 | 197 | 199 | 52.0 | 192 | 188 |
| | 1800 | 25.0 | 53.0 | 188 | 191 | 49.9 | 185 | 181 | 46.9 | 175 | 172 |
| | 1700 | 32.5 | 69.2 | 214 | 243 | 65.2 | 213 | 230 | 61.2 | 211 | 217 |
| | 1700 | 31.0 | 65.5 | 208 | 230 | 61.7 | 208 | 219 | 57.9 | 205 | 207 |
| | 1700 | 29.0 | 60.5 | 201 | 215 | 57.0 | 200 | 204 | 53.5 | 196 | 193 |
| | 1700 | 27.0 | 54.9 | 192 | 197 | 51.7 | 189 | 187 | 48.6 | 182 | 177 |
| | 1700 | 25.0 | 49.6 | 181 | 180 | 46.8 | 175 | 171 | --- | --- | --- |
| | 1600 | 31.0 | 60.0 | 200 | 213 | 56.6 | 199 | 203 | 53.1 | 195 | 192 |
| | 1600 | 29.0 | 55.3 | 193 | 199 | 52.1 | 190 | 188 | 48.9 | 183 | 178 |
| | | | -54°C (-66°F) | | | -34°C (STD TEMP) (-30°F) | | | -14°C (6°F) | | |
| 25,000 FEET | 1900 | 32.5 | 78.0 | 236 | 271 | 73.5 | 236 | 257 | 69.0 | 234 | 242 |
| | 1900 | 31.0 | 74.3 | 231 | 260 | 70.0 | 231 | 246 | 65.7 | 229 | 231 |
| | 1900 | 29.0 | 68.8 | 223 | 241 | 64.8 | 223 | 228 | 60.8 | 219 | 216 |
| | 1900 | 27.0 | 63.0 | 215 | 223 | 59.3 | 212 | 211 | 55.7 | 207 | 200 |
| | 1900 | 25.0 | 57.1 | 204 | 204 | 53.8 | 200 | 194 | 50.5 | 188 | 183 |
| | 1800 | 29.0 | 64.3 | 217 | 227 | 60.6 | 215 | 215 | 56.9 | 210 | 204 |
| | 1800 | 27.0 | 58.8 | 207 | 210 | 55.4 | 204 | 199 | 52.0 | 195 | 188 |
| | 1700 | 27.0 | 54.9 | 199 | 197 | 51.7 | 194 | 187 | --- | --- | --- |

Figure 5-20 (Sheet 3 of 3)

SECTION 5 PERFORMANCE

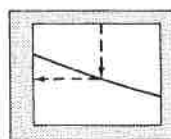
RANGE PROFILE

CONDITIONS:

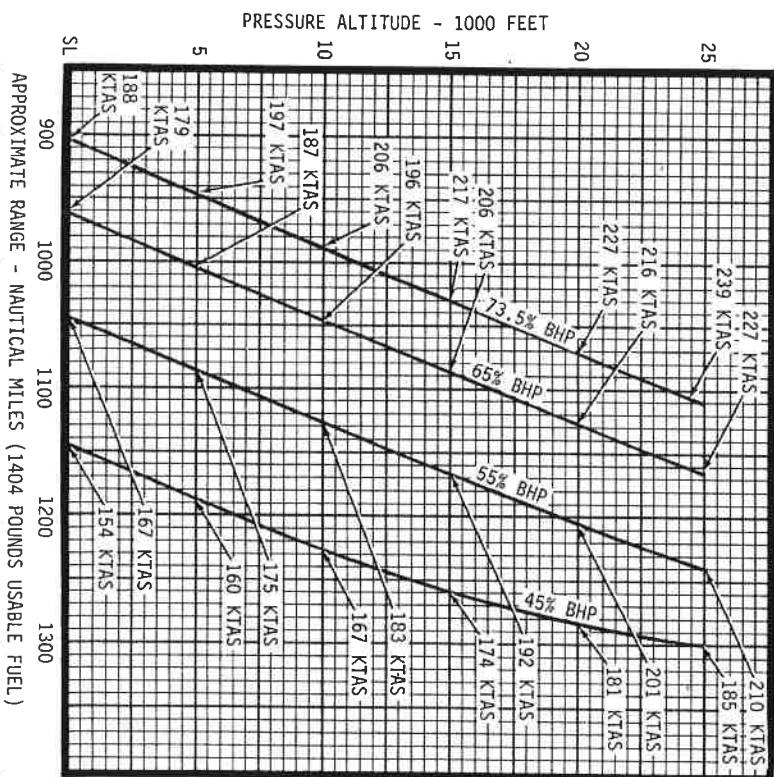
1. Starting Weight - 7450 Pounds.
2. Cruise Climb to Desired Altitude.
3. Recommended Lean Fuel Flow.
4. Zero Wind.
5. Standard Day.

NOTE:

1. Range computations include fuel required for start, taxi, takeoff, climb, cruise, descent and 45 minutes holding fuel at 45% power.
2. The distances shown are the sum of the distances to climb, cruise and descend.



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ENDURANCE PROFILE

CONDITIONS:

1. Starting Weight - 7450 Pounds.
2. Cruise Climb to Desired Altitude.
3. Recommended Lean Fuel Flow.
4. Standard Day.

NOTE:

1. Endurance computations include fuel required for start, taxi, takeoff, climb, cruise, descent and 45 minutes holding fuel at 45% power.
2. The endurance shown is the sum of the times to climb, cruise and descend.

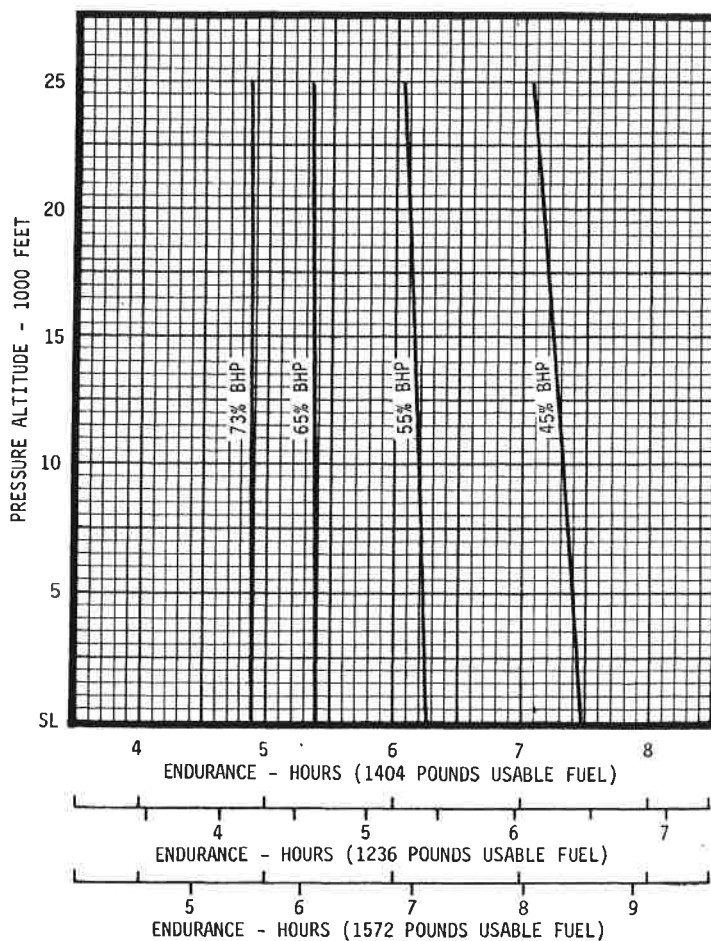
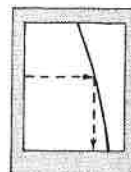


Figure 5-22

SECTION 5
PERFORMANCE

Cessna
MODEL 421C

HOLDING TIME

CONDITIONS:

1. 1800 RPM and 23 Inches Hg.
Manifold Pressure (45% Power).
2. Recommended Lean Fuel Flow
(166 Pounds Per Hour Total).

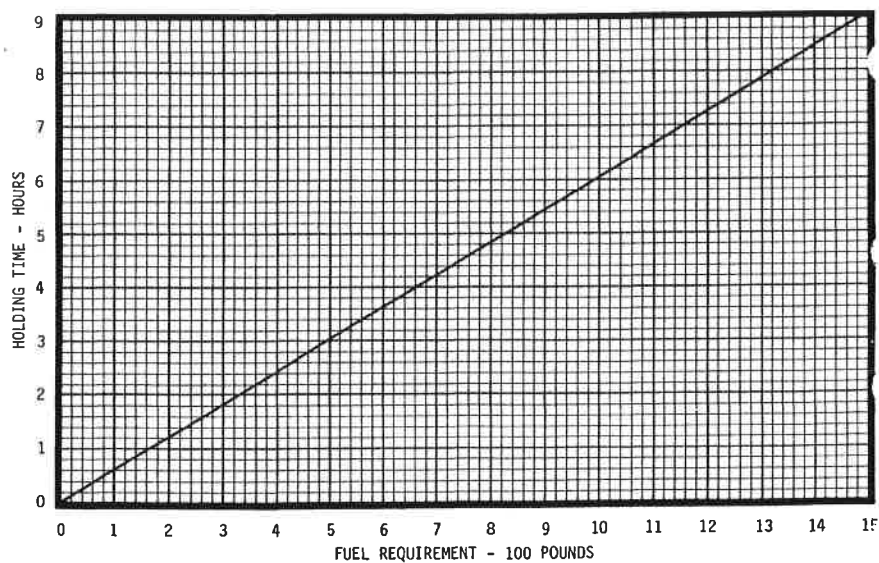
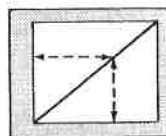


Figure 5-23

TIME, FUEL AND DISTANCE TO DESCEND

CONDITIONS:

1. Power - 1800 RPM and 23 Inches Hg.
Manifold Pressure (45% Power).
2. Fuel Flow - RECOMMENDED LEAN
(Approximately 83.0
Pounds Per Hour Per
Engine).
3. Landing Gear - UP.
4. Wing Flaps - UP.
5. Airspeed - 180 KIAS.

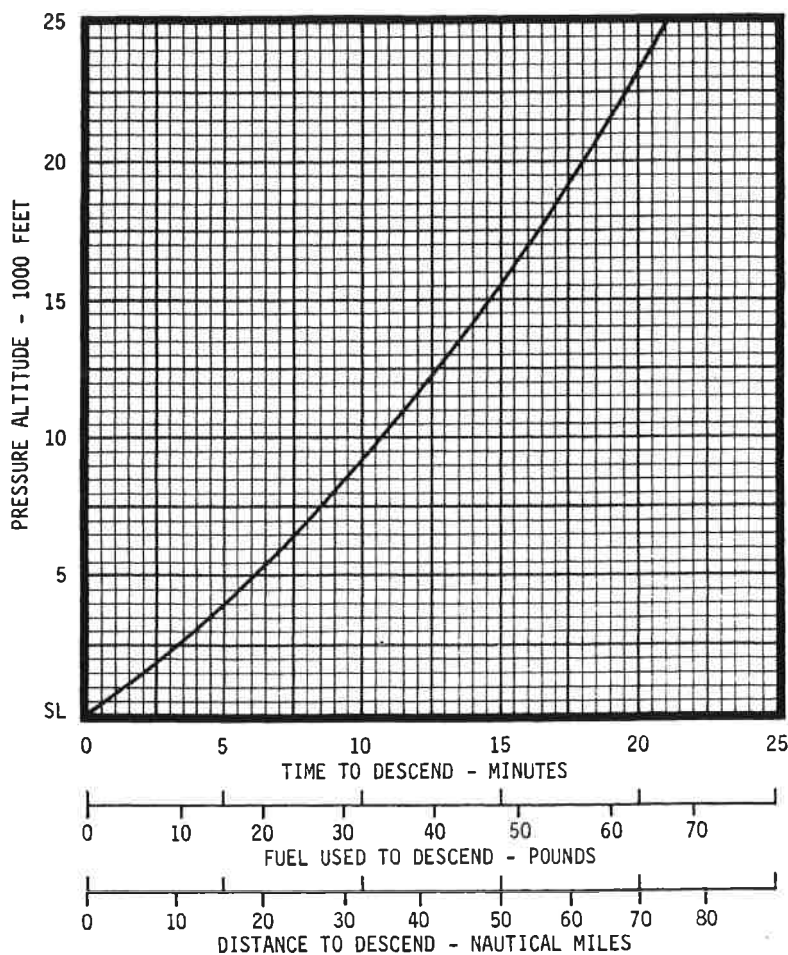
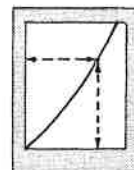


Figure 5-24

SECTION 5
PERFORMANCE

Cessna
MODEL 421C

NORMAL LANDING DISTANCE

CONDITIONS:

1. Throttles - IDLE at 50 feet above ground level.
2. Landing Gear - DOWN.
3. Wing Flaps - 45°.
4. Touchdown - FULL STALL.
5. Level, Hard Surface Runway.
6. Maximum Effective Braking.

NOTE:

1. If necessary to land with wing flaps UP, the approach speed should be increased above the normal approach speed by 12 knots. Expect total landing distance to increase by 35%.
2. Decrease total distances by 3% for each 4 knots headwind. For operations with tailwinds up to 10 knots, increase total distances by 8% for each 3 knots wind.

| WEIGHT- POUNDS | SPEED AT 50-FOOT OBSTACLE KIAS | PRESSURE ALTITUDE - FEET | -20°C (-4°F) | | -10°C (14°F) | | 0°C (32°F) | | 10°C (50°F) | |
|-------------------|---|--------------------------------|--------------------------|--|--------------------------|--|--------------------------|--|--------------------------|--|
| | | | GROUND ROLL - FEET | TOTAL DISTANCE TO CLEAR 50-FOOT OBSTACLE | GROUND ROLL - FEET | TOTAL DISTANCE TO CLEAR 50-FOOT OBSTACLE | GROUND ROLL - FEET | TOTAL DISTANCE TO CLEAR 50-FOOT OBSTACLE | GROUND ROLL - FEET | TOTAL DISTANCE TO CLEAR 50-FOOT OBSTACLE |
| 7200 | 100 | Sea Level | 640 | 2210 | 660 | 2240 | 690 | 2260 | 710 | 2290 |
| | | 1000 | 660 | 2230 | 690 | 2260 | 710 | 2290 | 740 | 2310 |
| | | 2000 | 690 | 2260 | 710 | 2290 | 740 | 2310 | 770 | 2340 |
| | | 3000 | 710 | 2280 | 740 | 2310 | 770 | 2340 | 790 | 2370 |
| | | 4000 | 740 | 2310 | 770 | 2340 | 800 | 2370 | 820 | 2400 |
| | | 5000 | 770 | 2340 | 800 | 2370 | 830 | 2400 | 860 | 2430 |
| | | 6000 | 790 | 2370 | 830 | 2400 | 860 | 2430 | 890 | 2460 |
| | | 7000 | 820 | 2400 | 860 | 2430 | 890 | 2460 | 920 | 2490 |
| | | 8000 | 860 | 2430 | 890 | 2460 | 920 | 2500 | 960 | 2530 |
| | | 9000 | 890 | 2460 | 920 | 2500 | 960 | 2530 | 990 | 2570 |
| | | 10,000 | 920 | 2500 | 960 | 2530 | 1000 | 2570 | 1030 | 2610 |
| 6600 | 96 | Sea Level | 530 | 2100 | 550 | 2120 | 570 | 2140 | 590 | 2160 |
| | | 1000 | 550 | 2120 | 570 | 2140 | 590 | 2160 | 610 | 2180 |
| | | 2000 | 570 | 2140 | 590 | 2160 | 610 | 2180 | 630 | 2210 |
| | | 3000 | 590 | 2160 | 610 | 2180 | 630 | 2210 | 660 | 2230 |
| | | 4000 | 610 | 2180 | 630 | 2210 | 660 | 2230 | 680 | 2250 |
| | | 5000 | 630 | 2210 | 660 | 2230 | 680 | 2260 | 710 | 2280 |
| | | 6000 | 660 | 2230 | 680 | 2260 | 710 | 2280 | 730 | 2310 |
| | | 7000 | 680 | 2250 | 710 | 2280 | 740 | 2310 | 760 | 2340 |
| | | 8000 | 710 | 2280 | 740 | 2310 | 760 | 2340 | 790 | 2360 |
| | | 9000 | 740 | 2310 | 760 | 2340 | 790 | 2370 | 820 | 2400 |
| | | 10,000 | 760 | 2340 | 790 | 2370 | 820 | 2400 | 850 | 2430 |
| 6000 | 91 | Sea Level | 430 | 2000 | 450 | 2020 | 460 | 2040 | 480 | 2050 |
| | | 1000 | 440 | 2020 | 460 | 2030 | 480 | 2050 | 500 | 2070 |
| | | 2000 | 460 | 2030 | 480 | 2050 | 500 | 2070 | 510 | 2090 |
| | | 3000 | 480 | 2050 | 500 | 2070 | 510 | 2090 | 530 | 2110 |
| | | 4000 | 500 | 2070 | 510 | 2090 | 530 | 2110 | 550 | 2130 |
| | | 5000 | 510 | 2090 | 530 | 2110 | 550 | 2130 | 570 | 2150 |
| | | 6000 | 530 | 2110 | 550 | 2130 | 580 | 2150 | 600 | 2170 |
| | | 7000 | 550 | 2130 | 580 | 2150 | 600 | 2170 | 620 | 2190 |
| | | 8000 | 580 | 2150 | 600 | 2170 | 620 | 2190 | 640 | 2220 |
| | | 9000 | 600 | 2170 | 620 | 2190 | 640 | 2220 | 670 | 2240 |
| | | 10,000 | 620 | 2190 | 650 | 2220 | 670 | 2240 | 690 | 2270 |
| 5400 | 86 | Sea Level | 340 | 1910 | 350 | 1930 | 370 | 1940 | 380 | 1950 |
| | | 1000 | 350 | 1930 | 370 | 1940 | 380 | 1950 | 390 | 1970 |
| | | 2000 | 370 | 1940 | 380 | 1950 | 390 | 1970 | 410 | 1980 |
| | | 3000 | 380 | 1950 | 390 | 1970 | 410 | 1980 | 420 | 2000 |
| | | 4000 | 390 | 1970 | 410 | 1980 | 420 | 2000 | 440 | 2010 |
| | | 5000 | 410 | 1980 | 420 | 2000 | 440 | 2010 | 460 | 2030 |
| | | 6000 | 420 | 2000 | 440 | 2010 | 460 | 2030 | 470 | 2050 |
| | | 7000 | 440 | 2010 | 460 | 2030 | 470 | 2050 | 490 | 2060 |
| | | 8000 | 460 | 2030 | 480 | 2050 | 490 | 2070 | 510 | 2080 |
| | | 9000 | 470 | 2050 | 490 | 2070 | 510 | 2090 | 530 | 2100 |
| | | 10,000 | 490 | 2070 | 510 | 2090 | 530 | 2110 | 550 | 2120 |

Figure 5-25 (Sheet 1 of 2)

NORMAL LANDING DISTANCE

CONDITIONS:

1. Throttles - IDLE at 50 feet above ground level.
2. Landing Gear - DOWN.
3. Wing Flaps - 45°.
4. Touchdown - FULL STALL.
5. Level, Hard Surface Runway.
6. Maximum Effective Braking.

NOTE:

1. If necessary to land with wing flaps UP, the approach speed should be increased above the normal approach speed by 12 knots. Expect total landing distance to increase by 35%.
2. Decrease total distances by 3% for each 4 knots headwind. For operations with tailwinds up to 10 knots, increase total distances by 8% for each 3 knots wind.

| WEIGHT- POUNDS | SPEED AT 50-FOOT OBSTACLE KIAS | PRESSURE ALTITUDE - FEET | 20°C (68°F) | | 30°C (86°F) | | 40°C (104°F) | |
|-------------------|---|--------------------------------|--------------------------|--|--------------------------|--|--------------------------|--|
| | | | GROUND ROLL - FEET | TOTAL DISTANCE TO CLEAR 50-FOOT OBSTACLE | GROUND ROLL - FEET | TOTAL DISTANCE TO CLEAR 50-FOOT OBSTACLE | GROUND ROLL - FEET | TOTAL DISTANCE TO CLEAR 50-FOOT OBSTACLE |
| 7200 | 100 | Sea Level | 740 | 2310 | 760 | 2340 | 790 | 2360 |
| | | 1000 | 760 | 2340 | 790 | 2360 | 820 | 2390 |
| | | 2000 | 790 | 2370 | 820 | 2390 | 850 | 2420 |
| | | 3000 | 820 | 2400 | 850 | 2420 | 880 | 2450 |
| | | 4000 | 850 | 2430 | 880 | 2460 | 910 | 2480 |
| | | 5000 | 890 | 2460 | 920 | 2490 | 950 | 2520 |
| | | 6000 | 920 | 2490 | 950 | 2520 | 980 | 2550 |
| | | 7000 | 950 | 2530 | 990 | 2560 | 1020 | 2590 |
| | | 8000 | 990 | 2560 | 1020 | 2600 | 1060 | 2630 |
| | | 9000 | 1030 | 2600 | 1060 | 2640 | 1100 | 2670 |
| | | 10,000 | 1070 | 2640 | 1110 | 2680 | 1140 | 2720 |
| 6600 | 96 | Sea Level | 610 | 2180 | 630 | 2200 | 650 | 2220 |
| | | 1000 | 630 | 2210 | 650 | 2230 | 680 | 2250 |
| | | 2000 | 660 | 2230 | 680 | 2250 | 700 | 2270 |
| | | 3000 | 680 | 2250 | 700 | 2280 | 730 | 2300 |
| | | 4000 | 710 | 2280 | 730 | 2300 | 750 | 2330 |
| | | 5000 | 730 | 2300 | 760 | 2330 | 780 | 2350 |
| | | 6000 | 760 | 2330 | 790 | 2360 | 810 | 2380 |
| | | 7000 | 790 | 2360 | 820 | 2390 | 840 | 2420 |
| | | 8000 | 820 | 2390 | 850 | 2420 | 870 | 2450 |
| | | 9000 | 850 | 2420 | 880 | 2450 | 910 | 2480 |
| | | 10,000 | 880 | 2460 | 910 | 2490 | 940 | 2520 |
| 6000 | 91 | Sea Level | 500 | 2070 | 510 | 2090 | 530 | 2100 |
| | | 1000 | 510 | 2090 | 530 | 2100 | 550 | 2120 |
| | | 2000 | 530 | 2110 | 550 | 2120 | 570 | 2140 |
| | | 3000 | 550 | 2130 | 570 | 2140 | 590 | 2160 |
| | | 4000 | 570 | 2150 | 590 | 2170 | 610 | 2180 |
| | | 5000 | 590 | 2170 | 610 | 2190 | 630 | 2210 |
| | | 6000 | 620 | 2190 | 640 | 2210 | 660 | 2230 |
| | | 7000 | 640 | 2210 | 660 | 2240 | 680 | 2260 |
| | | 8000 | 670 | 2240 | 690 | 2260 | 710 | 2280 |
| | | 9000 | 690 | 2260 | 710 | 2290 | 740 | 2310 |
| | | 10,000 | 720 | 2290 | 740 | 2320 | 770 | 2340 |
| 5400 | 86 | Sea Level | 390 | 1970 | 410 | 1980 | 420 | 1990 |
| | | 1000 | 410 | 1980 | 420 | 2000 | 440 | 2010 |
| | | 2000 | 420 | 2000 | 440 | 2010 | 450 | 2020 |
| | | 3000 | 440 | 2010 | 450 | 2030 | 470 | 2040 |
| | | 4000 | 460 | 2030 | 470 | 2040 | 490 | 2060 |
| | | 5000 | 470 | 2050 | 490 | 2060 | 500 | 2080 |
| | | 6000 | 490 | 2060 | 510 | 2080 | 520 | 2100 |
| | | 7000 | 510 | 2080 | 530 | 2100 | 540 | 2120 |
| | | 8000 | 530 | 2100 | 550 | 2120 | 560 | 2140 |
| | | 9000 | 550 | 2120 | 570 | 2140 | 590 | 2160 |
| | | 10,000 | 570 | 2140 | 590 | 2160 | 610 | 2180 |

Figure 5-25 (Sheet 2 of 2)