

CHECKLIST CESSNA 150 N63532



Fort Meade Flight Activity, Inc.

7509 General Aviation Drive, Fort Meade, MD 20755
(410) 672-0080



DO NOT REMOVE FROM AIRCRAFT

EMERGENCY CONTACT NUMBERS

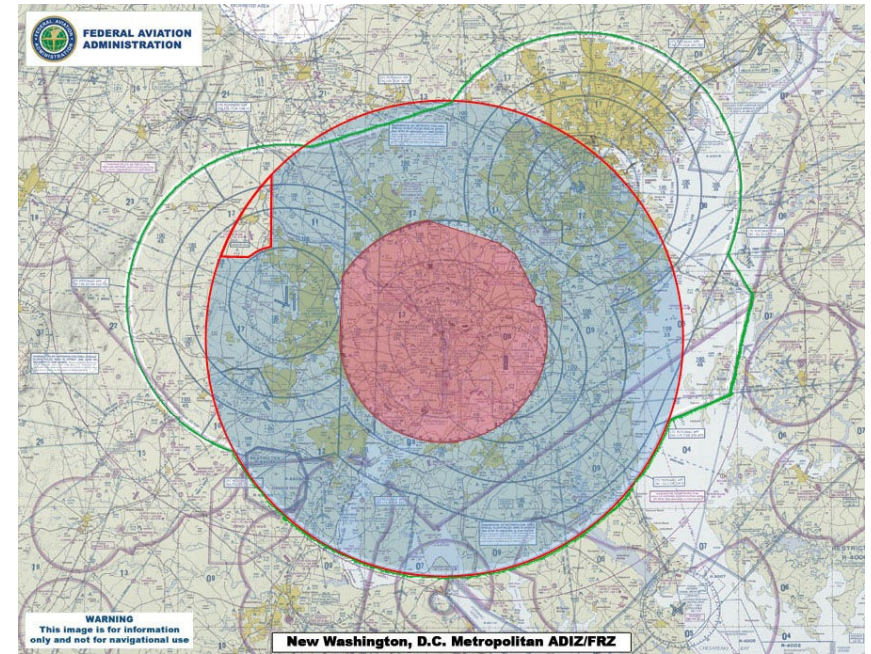
Sue Hall (443) 690-2627 (cell)
Co-manager

Frank Turney (443) 499-1287 (cell)
Co-manager

Transponder Codes

7500 Hijacked
7600 Lost Communications
7700 Emergency

Aircraft ID N63532	Flight Rule IFR	Flight Type G	No. of Aircraft 1	Aircraft Type C150	Wake Turbulence L	Aircraft Equipment SG
Departure KFME	Airport Info Area Brief	Departure Date & Time 05/05/2020 2000 UTC	Evaluate Apply Minutes From Now 1-120	Cruising Speed N0095	Level VFR/013	Optimize Surveillance Equipment EB2
Route of Flight DCT			Other Information (Optional)			
Destination PALEO	Airport Info Area Brief	Est Elapsed Time 0025	Alternate 1 (Optional) Airport Info Area Brief		Alternate 2 (Optional) Airport Info Area Brief	
Fuel Endurance 0300	Persons on Board 2	Aircraft Color & Markings (Optional) Y-W	Supplemental Remarks (Optional) DC SFRA		Pilot In Command (Optional)	
Emergency Radios <input type="checkbox"/> UHF <input checked="" type="checkbox"/> VHF <input type="checkbox"/> ELBA	Survival Equipment <input type="checkbox"/> Polar <input type="checkbox"/> Desert <input type="checkbox"/> Maritime <input type="checkbox"/> Jungle	Jackets <input type="checkbox"/> Light <input type="checkbox"/> Fluorescent <input type="checkbox"/> UHF <input type="checkbox"/> VHF	Dinghies (Optional) Number Capacity Color Covered		Pilot Contact Information IRVING, PHILIP, (410)953-0286 KFME, (410)953-0286	



Washington SFRA

ATC COMMUNICATIONS AND SQUAWK CODE REQUIRED

**FSS: 1-800-WX-BRIEF (1-800-992-7433)
(SFRA flight plan & weather briefing)**

**Potomac TRACON: 1-866-429-5882
(squawk code & frequency)**

**Potomac TRACON: 1-540-351-6129
(close SFRA flight plan after pattern work)**

AIRSPEEDS FOR SAFE OPERATION (MPH IAS)

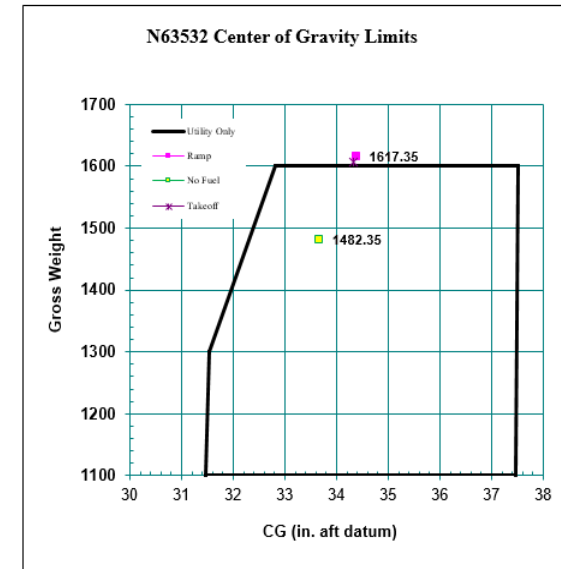
V_{SO}		48
V_{SI}		55
V_R		50
V_X		57
V_Y		73
V_F		100
V_A (MGW)		109
V_{NO}		120
V_{NE}		162
V_{ref}	(flaps up)	65
	(flaps down)	60
V_G		65
Recommended Max Demonstrated Crosswind		13

From later model C150 POH. H model not listed.
Weight & Balance Example

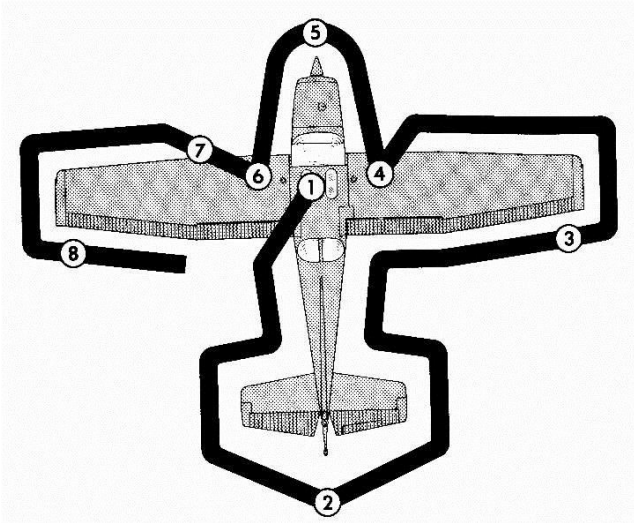
FAA Tail No.	N63532		Color	W/R
Flight Plan Designator	C150/U		Useable Fuel	22.5 gal
Year of Manufacture	1975		Make/Model	Cessna 150M
	∞	Weight	Arm	Moment
Basic Empty	29-Jun-2018	1131.35	32.425	36684.40
Fuel (Gal):	22.5	135.00	42.222	5699.97
Oil		11.00	-9.091	-100.00
Pilot		170.00	39.118	6650.06
Copilot		170.00	39.118	6650.06
Baggage - Area 1		0.00	64.444	0.00
Baggage - Area 2		0.00	85.714	0.00
		Weight	Arm	Moment
Ramp		1617.35	34.368	55584.49
Takeoff		1606.35	34.335	55153.82
No Fuel		1482.35	33.652	49884.52

Notes: Source -- 1975 Cessna Model 150M Manual certified under FAA Type Certificate # 3A19
 1. BEW includes Unusable Gas of 3.5 gallons
 2. Total Fuel Volume is 26 gallons
 3. Usable Fuel all flight conditions is 22.5 gallons
 4. Maximum Baggage Area 1 = 120 lbs
 5. Maximum Baggage Area 2 = 40 lbs

(USE THE W&B DATA FOR THE SPECIFIC PLANE THAT YOU ARE FLYING)



PREFLIGHT INSPECTION



COCKPIT

Hobbs, Tach Times	NOTE
Publications (AROW)	CHECK
Control Lock	REMOVED
Trim Tab	TAKEOFF RANGE
Radios and Electrical Switches	OFF
Magnetos	OFF
Ignition Key	ON DASH
Carburetor Heat	OFF
Throttle	CLOSED
Mixture	FULL LEAN
Circuit Breakers	CHECK
Master Switch	ON
Fuel Gauges	CHECK
Lights	CHECK
Flaps	EXTEND
Master Switch	OFF

FUSELAGE

Skin Condition	CHECK
Antennas	CHECK
Frost/Ice	CHECK

EMPENNAGE

Control Surfaces	CHECK
Trim Tab	CHECK
Lights	CHECK
Antennas	CHECK
Tiedown	REMOVED

RIGHT WING

Flap and Aileron	CHECK
Wing Tip, Light and Leading Edge	CHECK
Tiedown, Chocks	REMOVE
Wheel Strut, Tire, Brakes	CHECK
Fuel Sump	DRAIN
Fuel Quantity	CHECK, THEN CAP SECURE

NOSE

Oil	CHECK
Fuel Strainer Knob	DRAIN, THEN CHECK CLOSED
Engine Compartment	CHECK
Cowling, Intakes, Spinner, Propeller	CHECK
Landing Light	CHECK
Nosewheel Strut, Tire, Linkage	CHECK
Chocks, Towbar	REMOVED
Windshield	CHECK
Static Port	CHECK
Oil Sump Heater (if installed)	DISCONNECT

LEFT WING

Fuel Quantity CHECK, THEN CAP SECURE
Fuel Sump DRAIN
Wheel Strut, Tire, Brakes CHECK
Tiedown, Chocks REMOVE
Fuel Vent CLEAR
Pitot Tube CHECK
Stall Warning Opening CHECK
Leading Edge, Wing Tip and Light CHECK
Aileron and Flap CHECK

BEFORE ENGINE START

Seats, Belts, Harnesses SECURED
Brakes TEST AND SET
Carburetor Heat OFF
Fuel Shutoff Valve ON
Beacon ON
Propeller Area CLEAR
Battery Master Switch ON

ENGINE START

Prime 3-4 STROKES*
Primer IN AND LOCKED
Throttle OPEN 1/8 INCH
Mixture RICH
Starter ENGAGE

*None required if engine is warm.

ENGINE START (FLOODED)

Primer IN AND LOCKED
Throttle FULL OPEN
Mixture IDLE CUT-OFF
Starter ENGAGE
Mixture ADVANCE AS ENGINE FIRES
Throttle RETARD

BEFORE TAXI

Throttle 1000 RPM
Oil Pressure CHECK
Alternator Switch ON
Avionics Master Switch ON
Transponder STANDBY
Flaps UP
Lights AS REQUIRED
Control Position for Wind AS REQUIRED
Brakes TEST

ENGINE RUN-UP

Nosewheel CENTERED
Parking Brake SET
Flight Controls FREE & CORRECT
Flight Instruments CHECK & SET
Mixture RICH
Trim SET TAKEOFF
Fuel Shutoff Valve ON
Throttle 1700 RPM
Magnetos CHECK (125 MAX DROP, 50 DIFF)
Carburetor Heat CHECK
Mixture CHECK, THEN FULL RICH
Engine Instruments CHECK

Ammeter CHECK
Suction Gauge CHECK
Throttle 1000 RPM

BEFORE TAKEOFF

Throttle Friction Lock ADJUST
Doors and Windows CLOSED
Seats, Belts and Harnesses SECURE
Trim CHECK
Radios SET
Transponder ALT
Lights AS REQUIRED
Flaps AS REQUIRED
Brakes RELEASE

NORMAL TAKEOFF

Throttle FULL OPEN
Engine Instruments CHECK
Rotation Speed 50 MPH
Climb Speed 73 MPH

SHORT FIELD TAKEOFF

Brakes SET
Flaps UP
Throttle FULL OPEN
Engine Instruments CHECK
Brakes RELEASE
Rotation Speed 50 MPH
Climb Speed Vx 57 MPH
Clear Obstacles then Vy 73 /Enroute climb

SOFT FIELD TAKEOFF

Flaps 10 degrees
Elevator FULL NOSE UP
Throttle FULL OPEN
Engine Instruments CHECK
Rotation Speed 50 MPH
Climb Speed Vx 57 or Vy 73 MPH
Flaps UP

CLIMB (1000 FEET)

Airspeed Vy 73 MPH
Engine instruments CHECK
Wings CHECK
Lights AS REQUIRED
Flaps UP
Flight Plan (If Filed) ACTIVATE

CRUISE

Power AS REQUIRED
Mixture LEAN

BEFORE LANDING

Mixture RICH
Carburetor Heat AS REQUIRED
Seats, Belts, and Harnesses SECURE
Lights AS REQUIRED

NORMAL LANDING

Power AS REQUIRED
 Flaps FULL DOWN
 Airspeed 71 MPH CLEAN, 62 MPH FLAPS DN
 Brakes AS REQUIRED

AFTER LANDING

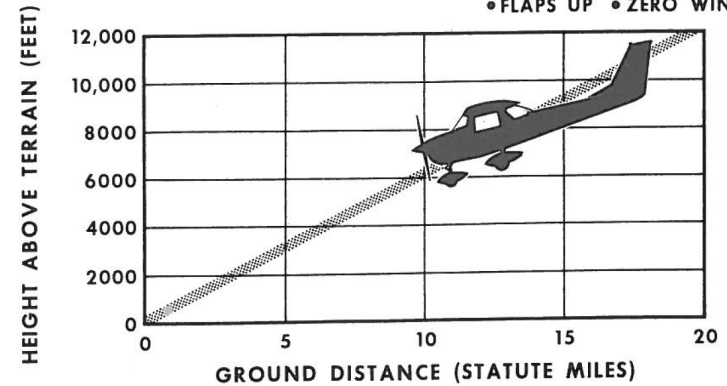
Flaps UP
 Transponder ALT
 Lights AS REQUIRED

SECURING AIRCRAFT

Throttle 1000 RPM
 Radios OFF
 Electrical Equipment (Except Beacon) OFF
 Mixture IDLE CUT-OFF
 Magnetos OFF
 Ignition Key ON DASH
 Master Switch OFF
 Control Lock INSTALL
 Hobbs/Tach Times, Fuel, Squawks) NOTE
 Chocks and Tiedowns INSTALL
 Oil Sump Heater (Winter Operation) CONNECT
 Flight Plan (If Filed) CLOSE

MAXIMUM GLIDE

- SPEED 65 MPH (IAS)
- PROPELLER WINDMILLING
- FLAPS UP • ZERO WIND



AIRSPEED CORRECTION TABLE (Flaps Up)

IAS	40	50	60	70	80	90	100	110	120	130	140
CAS	51	57	65	73	82	91	100	109	118	127	136

(Flaps Down)

IAS	40	50	60	70	80	90	100				
CAS	49	55	63	72	81	89	98				

= Power Off = **STALLING SPEEDS** MPH = CAS

Gross Weight 1600 lbs.	ANGLE OF BANK			
	0°	20°	40°	60°
CONDITION				
Flaps UP	55	57	63	78
Flaps 20°	49	51	56	70
Flaps 40°	48	49	54	67

TAKE-OFF DISTANCE				FLAPS RETRACTED				HARD SURFACE RUNWAY			
GROSS WT. LBS.	IAS 50 FT. MPH	HEAD WIND KNOTS	AT SEA LEVEL & 59° F.		AT 2500 FT. & 50° F.		AT 5000 FT. & 41° F.		AT 7500 FT. & 32° F.		
			GROUND RUN	TOTAL TO CLEAR 50 FT. OBS	GROUND RUN	TOTAL TO CLEAR 50 FT. OBS	GROUND RUN	TOTAL TO CLEAR 50 FT. OBS	GROUND RUN	TOTAL TO CLEAR 50 FT. OBS	
1600	64	0	735	1385	910	1660	1115	1985	1360	2440	
		10	500	1035	830	1250	780	1510	970	1875	
		20	305	730	395	890	505	1080	640	1375	

NOTES: 1. Increase the distances 10% for each 35°F. increase in temperature above standard for the particular altitude.
2. For operation on a dry, grass runway, increase distances (both "ground run" and "total to clear 50 ft. obstacle") by 7% of the "total to clear 50 ft. obstacle" figure.

MAXIMUM RATE-OF-CLIMB DATA									
GROSS WEIGHT LBS.	AT SEA LEVEL & 59° F.			AT 5000 FT. & 41° F.			AT 10000 FT. & 23° F.		
	IAS, MPH	RATE OF CLIMB FT./MIN.	FUEL USED, GAL.	IAS, MPH	RATE OF CLIMB FT./MIN.	FUEL USED FROM S.L., GAL.	IAS, MPH	RATE OF CLIMB FT./MIN.	FUEL USED FROM S.L., GAL.
1600	73	670	0.6	68	440	1.6	65	220	3.0

NOTES: 1. Flaps retracted, full throttle, mixture leaned to smooth operation above 5000 ft.
2. Fuel used includes warm-up and take-off allowances.
3. For hot weather, decrease rate of climb 15 ft./min. for each 10°F above standard day temperature for particular altitude.

LANDING DISTANCE												
GROSS WEIGHT LBS.	AT SEA LEVEL & 59° F.			AT 2500 FT. & 50° F.			AT 5000 FT. & 41° F.			AT 7500 FT. & 32° F.		
	APPROACH SPEED, IAS, MPH	GROUND ROLL	TOTAL TO CLEAR 50 FT. OBS	APPROACH SPEED, IAS, MPH	GROUND ROLL	TOTAL TO CLEAR 50 FT. OBS	APPROACH SPEED, IAS, MPH	GROUND ROLL	TOTAL TO CLEAR 50 FT. OBS	APPROACH SPEED, IAS, MPH	GROUND ROLL	TOTAL TO CLEAR 50 FT. OBS
1600	58	445	1076	470	1135	1195	495	1185	520	1255		

NOTES: 1. Decrease the distances shown by 10% for each 4 knots of headwind.
2. Increase the distance by 10% for each 60°F. temperature increase above standard.
3. For operation on a dry, grassy runway, increase distances (both "ground roll" and "total to clear 50 ft. obstacle") by 20% of the "total to clear 50 ft. obstacle" figure.

CRUISE PERFORMANCE							WITH LEAN MIXTURE		
ALTITUDE	RPM	%BHP	TAS MPH	GAL/HR.	END. HOURS		RANGE, MILES		
					STANDARD	LONG RANGE	STANDARD	LONG RANGE	
					22.5 GAL.	35 GAL.	22.5 GAL.	35 GAL.	
2500	2750	92	121	7.0	3.2	5.0	390	605	
	2700	87	119	6.6	3.4	5.3	410	635	
	2600	77	114	5.8	3.9	6.1	445	690	
	2500	68	108	5.1	4.4	6.9	475	740	
	2400	60	103	4.6	4.9	7.7	505	790	
	2300	58	96	4.1	5.5	8.6	535	830	
	2200	46	89	3.6	6.2	9.7	550	860	
	2100	40	79	3.2	7.0	10.9	555	865	
	5000	2750	85	121	6.4	3.5	5.5	425	660
		2700	80	118	6.0	3.8	5.8	445	690
2600		71	113	5.3	4.2	6.6	475	740	
2500		63	107	4.8	4.7	7.4	505	790	
2400		56	101	4.3	5.3	8.2	530	830	
2300		49	93	3.8	5.9	9.2	550	860	
2200		43	84	3.4	6.6	10.3	560	870	
2100		37	71	3.0	7.5	11.7	540	835	
7500		2700	74	117	5.5	4.1	6.3	480	745
		2600	66	111	4.9	4.6	7.1	505	790
	2500	58	105	4.4	5.1	7.9	535	830	
	2400	52	98	4.0	5.7	8.8	555	860	
	2300	45	89	3.6	6.3	9.8	560	875	
	2200	40	77	3.2	7.1	11.1	550	850	
10,000	2700	68	116	5.1	4.4	6.8	510	790	
	2800	61	109	4.6	4.9	7.6	535	830	
	2500	54	102	4.1	5.4	8.5	555	865	
	2400	48	93	3.7	6.1	9.4	565	880	
	2300	42	82	3.3	6.8	10.6	555	860	
12,500	2650	60	110	4.5	5.0	7.8	560	855	
	2600	56	106	4.3	5.3	8.2	565	865	
	2500	50	97	3.9	5.8	9.1	565	880	
	2400	44	86	3.5	6.5	10.1	560	870	

NOTES: 1. Maximum cruise is normally limited to 75% power.
2. In the above calculations of endurance in hours and range in miles, no allowances were made for take-off or reserve.