

----- Rules of Thumb -----

- Aborted Take-Off speed. If you don't have 70% of your Vr speed by 50% of the runway, abort the takeoff.
- A 30 degree crosswind will have a crosswind component of Wind/2
- 2 fingers is ~10nm on a sectional
- Density Altitude Calculator and Other Calculators
<http://www.pilotfriend.com/calcs/calculators/density.htm>

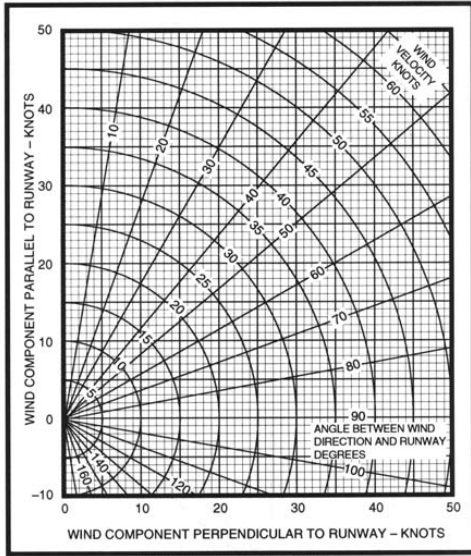
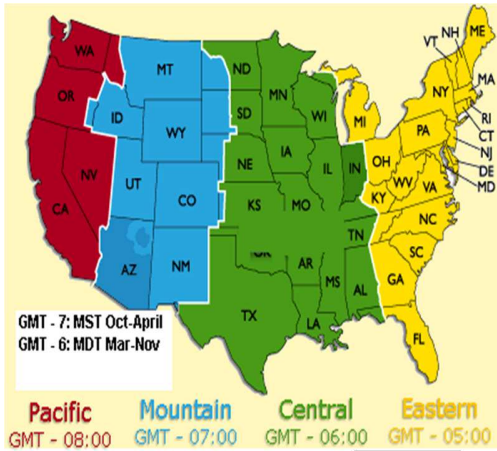
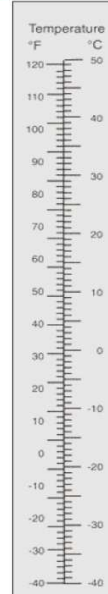


FIGURE 31.—Wind Component Chart.



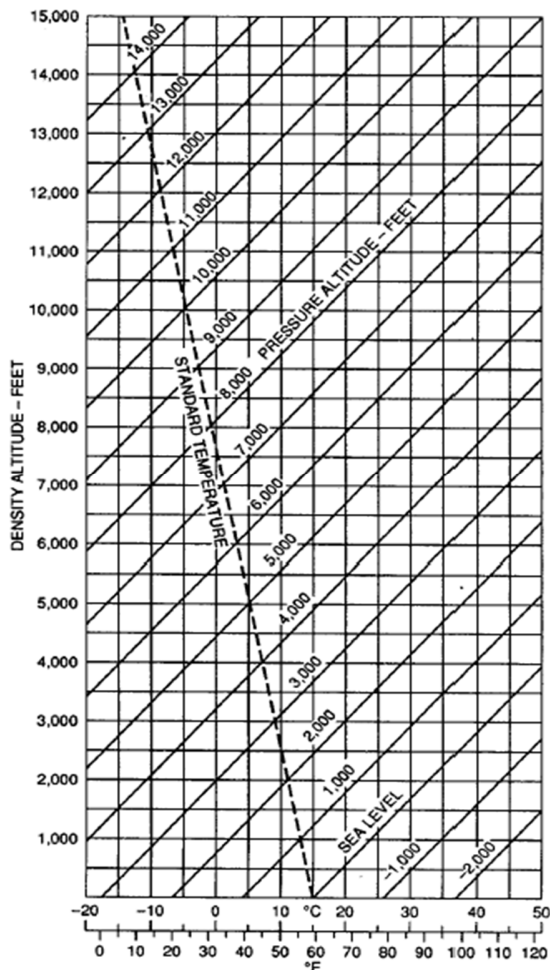
Light Gun Signals

Color and Type of Signal	Aircraft on the Ground	Aircraft in Flight
<u>Steady green</u>	Cleared for takeoff	Cleared to land
<u>Flashing green</u>	Cleared for taxi	Return for landing (to be followed by steady green at the proper time)
<u>Steady red</u>	Stop	Give way to other aircraft and continue circling
<u>Flashing red</u>	Taxi clear of the runway in use	Airport unsafe do not land
<u>Flashing white</u>	Return to starting point on airport	Not applicable
<u>Alternating red and green</u>	Exercise extreme caution	Exercise extreme caution



Airspace	Code	Vis	Cloud Distance	Landing		
Class A (IFR only)	None	None	None	None		
Class B (Clearance/Radio/ModeC)	3V/COC	3 SM	Clear of Clouds	3V/1C (Ceiling)		
Class C (Contact/Radio/ModeC)	3V/152	3 SM	500 ft below 1,000 ft above 2,000 ft horiz.	SVFR 1V/1C		
Class D (Contact/Radio)		3 SM				
Class E Less than 10,000 MSL At or above 10,000 MSL		5V/111			5 SM	1,000 ft below 1,000 ft above 1 SM horiz
Class G	1,200 ft or less AGL	Day	1V/COC	1 SM	Clear of clouds	
		Night	3V/152	3 SM	500 ft below	
	More than 1,200 AGL but less than 10,000 MSL	Day	1V/152	1 SM	1,000 ft above	
		Night	3V/152	3 SM	2,000 ft horiz.	
	More than 1,200 AGL and at or above 10,000 MSL		5V/111	5 SM	1,000 ft below 1,000 ft above 1 SM horiz	

Density Altitude Chart



SOURCE: FEDERAL AVIATION ADMINISTRATION

----- IFR LOST COMMUNICATIONS -----squawk 7600-----

Route (choose based on "AVEF" hierarchy):

1. **Assigned**—the route assigned in the last ATC clearance, or
2. **Vectored**—if being vectored, direct to the fix, route, or airway (clearance point)
3. **Expected**—else, the route ATC said to expect in a further clearance (per EFC)
4. **Filed**—otherwise, the route filed in your flight plan

Altitude (fly the highest of "MEA"):

- **Minimum**—the minimum en route altitude (OROCA for Off Route), or
- **Expected**—the altitude ATC said to expect in a further clearance (per EFC)
- **Assigned**—the altitude ATC assigned in the last clearance

Leaving a Clearance Limit that was given, and lost communications

- If Limit was IAF: Leave at EFC time if an EFC was received,
 Else leave per flight plan ETA
- If Limit Not IAF: Leave at At EFC time if an EFC was received,
 Else proceed to IAF then do approach at flight plan ETA

----- IFR Clearance -----

Most IFR clearances consist of five basic components ("CRAFT"):

- **Clearance limit:** Your destination airport or an intermediate fix.
- **Route of flight:** Hopefully the route you filed, unless traffic conditions, ATC...
- **Altitude:** If not as requested, typically followed by when to expect next climb.
- **Frequency:** The radio frequency for departure control.
- **Transponder:** Your four-digit squawk code.

----- IFR Position Report "IPATTEN"-----

- Identification, • Position, • Altitude, • Time, • Type of flight plan, • ETA to next reporting point
- Name of next reporting point

IFR Minimum Altitudes

MEA	Min Enroute Altitude	Nav signal reception between fixes, AND obstacle clearance
MOCA	Min Obstruction Clearance	Obstacle clearance and Nav within 22NM
MCA	Min Crossing Altitude	Obstacle clearance enroute to a higher MEA
MRA	Min Reception Altitude	Lowest altitude to identify an intersection
MSA	Min Safe Altitude	1000ft clearance for emergency operations

Required IFR reports

Anytime

- Vacating assigned altitude
- Changing 'VFR on top' altitude
- Unable 500 ft/min climb or descent
- Missed approach
- TAS change 10kts or 5%
- Nav or Comm loss
- Safety of flight
- Hazardous unforecast weather

Holding

- Time and altitude reaching a holding fix or clearance point
- Leaving assigned holding fix/point

When not in radar contact

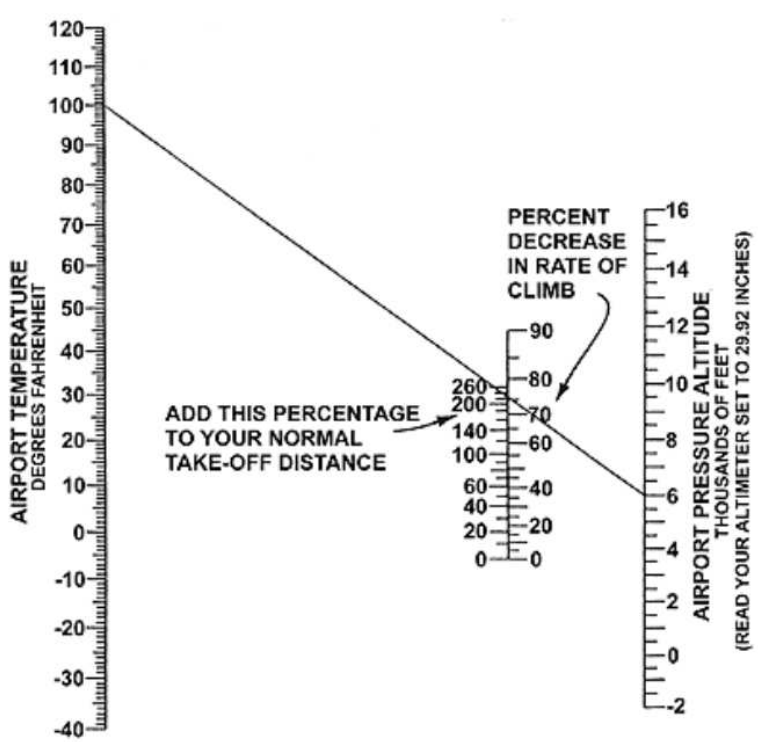
- Leaving FAF (or procedure inbound)
- Revised estimate > 3 minutes
- Where charted reporting points (solid triangle)

AWOS

<http://www.airportview.net/awos.php>

Station	Colorado Location	Frequency	Phone	Station	Location	Frequency	Phone
KAKO	COLORADO PLAINS REGIONAL	135.475	970-345-2320	KDRO	DURANGO-LA PLATA COUNTY AIRPORT	120.625	970-259-3579
KALS	SAN LUIS VALLEY REGIONAL	135.175	719-589-5669	KEGE	Eagle County Regional	135.575	970-524-7386
KASE	ASPEN-PITKIN COUNTY AIRPORT	120.400	970-925-9168	CO90	USAF Academy Bullseye Aux Airstrip	118.325	719-683-3346
KBKE	Aurora, Buckley Air Force Base Airport			K0CO	EMPIRE	134.325	
KZBM	Cottonwood Pass	132.050	303-512-4919	KEIK	Erie Municipal Airport	133.825	303-604-4339
KBDU	Boulder Municipal Airport	118.825	303-541-9540	KFCS	Fort Carson		
KAEJ	Central Colorado Regional Airport	132.925	719-395-2599	KFCL	Fort Collins Supplementary Aviation Weather Reporting Station		
KIIR	Kit Carson County Airport	135.225	719-346-7036	KFNL	Fort Collins/Loveland, Fort Collins-Loveland Municipal Airport	135.075	970-669-9187
KIV6	CANON CITY	120.025		KFMM	Fort Morgan Municipal Airport	132.950	970-867-4823
KAFF	Air Force Academy			KGNB	Granby-Grand County Airport	119.925	970-887-1803
KCOS	COLORADO SPRINGS MUNI	125.000	719-637-9696	KGJI	GRAND JUNCTION WALKER FIELD	118.550	970-245-7881
KFLY	Meadowlake Airport, Peyton, CO	118.450	719-683-5371	KGXY	Greeley, Greeley-Weld County Airport	135.175	970-352-3511
KCCU	Copper Mountain, Red Cliff Pass	118.075	970-968-1715	K2V9	Gunnison Aviation Weather Reporting Station		
KCEZ	CORTEZ MONTEZUMA COUNTY AIRPORT	135.625	970-564-0193	KGUC	Gunnison, Gunnison-Crested Butte Regional Airport	135.075	970-641-3240
KCAG	CRAIG MOFFAT AIRPORT	135.425	970-824-2373	KHDN	Hayden, Yampa Valley Airport	119.275	970-276-3690
KAJZ	Blake Field Airport	134.000	970-874-3251	KHEO	Holyoke Airport	119.275	970-854-3679
KDNR	Denver / Stapleton International, Co.			K20V	Kremmling, Mc Elroy Airfield	118.425	970-724-9659
KAPA	DENVER CENTENNIAL AIRPORT	120.300	303-706-9098	KLHX	LA JUNTA MUNICIPAL AIRPORT	135.525	719-384-5961
KDEN	DENVER INTERNATIONAL AIRPORT	125.600	303-342-0838	KVIP	La Veta Mountain, La Veta Pass	119.925	719-587-3120
KFTG	Front Range Airport	119.025	303-261-9104	KLAA	LAMAR MUNICIPAL AIRPORT	135.625	719-336-3854
KBJC	Rocky Mountain Metro Airport	126.250	720-887-8067	KLXV	LEADVILLE LAKE CO	118.375	719-486-2735
K4V5	Durango Aviation Weather Reporting Station			KLIC	LIMON MUNICIPAL AIRPORT	121.125	719-775-0515
KDRO	DURANGO-LA PLATA COUNTY AIRPORT	120.625	970-259-3579	KLMO	Vance Brand Airport	120.000	303-684-7545
KEGE	Eagle County Regional	135.575	970-524-7386	KEEQ	MEEKER AIRPORT	135.525	970-878-5036
CO90	USAF Academy Bullseye Aux Airstrip	118.325	719-683-3346	KMYP	Salida Mountain, Monarch Pass	124.175	719-539-4436
K0CO	EMPIRE	134.325		KMTJ	MONTROSE REGIONAL AIRPORT	135.225	970-249-1534
KEIK	Erie Municipal Airport	133.825	303-604-4339	KMNH	Elbert Mountain, Monument Pass	134.375	303-648-3479
KFCS	Fort Carson			K3MW	Mount Werner	127.125	970-871-5640
KFCL	Fort Collins Supplementary Aviation Weather Reporting Station			KCRV	Nederland Mountain, Corona Pass		
KFNL	Fort Collins/Loveland, Fort Collins-Loveland Municipal Airport	135.075	970-669-9187	KAIB	Hopkins Field Airport	132.525	970-864-2325
KFMM	Fort Morgan Municipal Airport	132.950	970-867-4823	KPSQ	Stevens Field Airport	127.175	970-731-0365
KGNB	Granby-Grand County Airport	119.925	970-887-1803	KPEE	Peterson Air Force Base		
KGJI	GRAND JUNCTION WALKER FIELD	118.550	970-245-7881	KPUX	Pueblo NEXRAD		
KGXY	Greeley, Greeley-Weld County Airport	135.175	970-352-3511	KPUB	PUEBLO MEMORIAL AIRPORT	125.250	719-948-2803
K2V9	Gunnison Aviation Weather Reporting Station			K1V1	Rifle Aviation Weather Reporting Station		
KGUC	Gunnison, Gunnison-Crested Butte Regional Airport	135.075	970-641-3240	KRIL	RIFLE GARFIELD COUNTY RGNL	135.275	970-625-2206
KHDN	Hayden, Yampa Valley Airport	119.275	970-276-3690	K04V	Saguache, Saguache Municipal Airport	118.625	719-655-2229
KHEO	Holyoke Airport	119.275	970-854-3679	KS29	Salida		
K20V	Kremmling, Mc Elroy Airfield	118.425	970-724-9659	KANK	Harriet Alexander Field Airport	133.850	719-539-5268
KLHX	LA JUNTA MUNICIPAL AIRPORT	135.525	719-384-5961	KSPD	SPRINGFIELD COMANCHE NATL		
KVIP	La Veta Mountain, La Veta Pass	119.925	719-587-3120	KSBS	Steamboat Springs	118.325	970-879-7794
KLAA	LAMAR MUNICIPAL AIRPORT	135.625	719-336-3854	KSTK	Sterling Municipal Airport	118.525	970-526-3009
KLXV	LEADVILLE LAKE CO	118.375	719-486-2735	K5SM	Sunlight	126.075	970-384-3380
KLIC	LIMON MUNICIPAL AIRPORT	121.125	719-775-0515	KTEX	Telluride, Telluride Regional Airport	118.325	970-728-1534
				KIAD	Trinidad, Perry Stokes Airport	119.025	719-845-1156
				K33V	WALDEN	118.625	970-723-4513
				4V1	Spanish Peaks Airfield	123.600	719-738-1053
				K4BM	Wilkerson Pass	132.3	303-512-4418
				KC96	Winter Park Resort		
				KCPW	Pagosa Springs, Wolf Creek Pass	121.125	970-264-2180
				K2V5	Wray Municipal Airport	118.250	970-332-5930

----- Mountain Flying -----



----- Important Contact Info -----

www.rmflight.com 303-465-4600
KBJC Control Tower: 720-633-8600
BJC FBO for fuel Truck (Landmark Aviation): 122.95 (303)-466-2336
KBJC ATIS: 126.25 (303) 466-8744 AWOS: (720) 887-8067
KLMO AWOS: 120.0 (303) 684-7545
KEIK AWOS: 133.825 (303) 604-4339
KBDU AWOS: 118.825 (303) 541-9540
KFNL AWOS: 135.075 (970) 669-9187
KAPA ATIS: 120.3 (303) 799-6722 ASOS (303) 760-9098
KGXY AWOS: 135.175 (970) 352-3511

KBJC Mainenance Ops 24hours 720-352-0395

IFR Clearance release (non-towered): 303-342-1916 old:1-888-766-8267
NASA report: <http://asrs.arc.nasa.gov/index.html>
Denver TRACON: 303-342-1500
Aopa legal services: 1-800-872-2672

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