



















































































AEROASTRO	Cold Front					
Table 12.2 Typical Weather Conditions Associated with a Cold Front in the Northern Hemisphere						
WEATHER ELEMENT	BEFORE PASSING	WHILE PASSING	AFTER PASSING			
Winds	South or southwest	Gusty, shifting	West or northwest			
Temperature	Warm	Sudden drop	Steadily dropping			
Pressure	Falling steadily	Minimum, then sharp rise	Rising steadily			
Clouds	Increasing Ci, Cs, then either Tcu* or CB	Tcu or Cb	Often Cu, Sc when ground is warm			
Precipitation	Short period of showers	Heavy showers of rain or snow, sometimes with hail, thunder, and lightning	Decreasing intensity of showers, then clearing			
Visibility	Fair to poor in haze	Poor, followed by improving	Good except in showers			
Dew point	High; remains steady	Sharp drop	Lowering			
*Tcu stands for towering c	umulus, such as cumulus congestus	s; whereas Cb stands for cumulonimbus. Sc s	stands for stratocumulus.			
source unknown. All rights reserve	d. This content is excluded from our Creative	Commons license. For more information, see https://ocw	v.mit.edu/help/fao-fair-use/			

AEROASTRO	)		16.68			
Table 12.3 Typical Weather Conditions Associated with a Warm Front in the Northern Hemisphere						
WEATHER ELEMENT	BEFORE PASSING	WHILE PASSING	AFTER PASSING			
Winds	South or southeast	Variable	South or southwest			
Temperature	Cool to cold, slow warming	Steady rise	Warmer, then steady			
Pressure	Usually falling	Leveling off	Slight rise, followed by fall			
Clouds	In this order: Ci, Cs, As, Ns, St, and fog; occasionally Cb in summer	Stratus type	Clearing with scattered Sc, especially in summer occasionally Cb in summer			
Precipitation	Light-to-moderate rain, snow, sleet, or drizzle; showers in summer	Drizzle or none	Usually none; sometimes light rain or showers			
Visibility	Poor	Poor, but improving	Fair in haze			
Dew point	Steady rise	Steady	Rise, then steady			
	ed. This content is excluded from our Creative Commons licer scd.edu/~wagnerri/frontfig:		orw mit edu/heln/fan-faircuse/			

AEROASTRO Occluded Front						
Table 12.4 Typical Weather Conditions Most Often Associated with Occluded Fronts in North America						
WEATHER ELEMENT	BEFORE PASSING	WHILE PASSING	AFTER PASSING			
Winds	East, southeast, or south	Variable	West or northwest			
Temperature Cold type Warm type	Cold or cool Cold	Dropping Rising	Colder Milder			
Pressure	Usually falling	Low point	Usually rising			
Clouds	In this order: Ci, Cs, As, Ns	Ns, sometimes Tcu and Cb	Ns, As, or scattered Cu			
Precipitation	Light, moderate, heavy precipitation	Light, moderate, or heavy continuous precipitation or showers	Light-to-moderate precipitation followed b general clearing			
Visibility	Poor in precipitation	Poor in precipitation	Improving			
Dew point	Steady	Usually slight drop, especially if cold-occluded	Slight drop, although may rise a bit if warm occluded			



















































16.687 Private Pilot Ground School IAP 2019

For information about citing these materials or our Terms of Use, visit: <u>https://ocw.mit.edu/terms</u>.