

Department of the Army
Headquarters, United States Army
Maneuver Support Center of Excellence
Fort Leonard Wood, Missouri 65473-8929

FLW Regulation 115-1

10 December 2019

Climatic, Hydrological, and Topographic Services
WEATHER DATA

FOR THE COMMANDER:

OFFICIAL:

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History. This publication has major revisions.

Summary. This regulation establishes policies and procedures for requesting and obtaining weather support for Fort Leonard Wood (FLW).

Applicability. This regulation applies to all units assigned or attached to and facilities within the Fort Leonard Wood area.

Proponent and execution authority. The proponent agency of this regulation is the Directorate of Plans, Training, Mobilization, and Security (DPTMS).

Supplementation. Supplementation of this regulation is prohibited without prior approval by Headquarters, United States Army Maneuver Support Center of Excellence (MSCoE).

Suggested improvements. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) to Director, IMLD-PL, Fort Leonard Wood, MO 65473.

Distribution. Electronic medium only and posted on FLW Web Site.

*This regulation supersedes FLW Reg 115-1, 25 April 2014.

Summary of Change

To

FLW Reg 115-1, Weather Data

FLW Reg 115-1, 25 April 2014 has undergone major revisions.

- Updates the operating hours (Chapter 1).
- Updates weather warning criteria-desired lead times (Chapter 2).
- Added weather warning criteria-desired lead time prior to warning (Chapter 2).
- Updated general dissemination procedures (Chapter 3).
- Updated dissemination responsibilities. (Chapter 3)
- Updated weather warning plans (Chapter 3).
- Updated aviation weather support (Chapter 3).
- Appendix updated.

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Chapter 1

INTRODUCTION

1-1. Purpose. This regulation establishes policies, procedures, and responsibilities for requesting, obtaining, and disseminating weather data, as provided by Air Force Weather agencies, for Headquarters, Fort Leonard Wood – Maneuver Support of Excellence.

1-2. References.

- (1) Army Regulation (AR) 95-1 (Army Aviation Flight Regulation).
- (2) AR 115-10/Air Force Instruction (AFI) 15-157 (Weather Support and Services for the U.S. Army).
- (3) Department of Defense (DOD) Flight Information Program (FLIP) website.
- (4) Air Force Manual (AFM) 15-111 (Surface Weather Observations).
- (5) AFM 15-129 vol. 2 (Air and Space Weather Operations – Exploitation).
- (6) Air Force Instruction (AFI) 15-128 (Air Force Weather Roles and Responsibilities).

1-3. Weather Support Concept

Weather support to FLW is provided by Operating Location C, 3rd Weather Squadron (OL-C, 3 WS), located at BLDG 5004 on Forney Field. OL-C is officially called a Weather Exploitation Unit (EU) or FLW's EU. The 26th Operational Weather Squadron (26 OWS), located at Barksdale Air Force Base (AFB) LA, also provides weather support in concert with the EU. The EU is operated and manned by Air Force Weather Civil Service personnel. Locally produced weather products are used to satisfy supported unit's requirements.

1-4. Explanation of Acronyms, Abbreviations, and Terms

Acronyms and abbreviations used in this regulation are explained in the glossary.

1-5. Operating Hours

a. The EU is a limited-duty weather unit, and is operational Monday through Friday 0700 Local 2200 Local. The EU is closed on weekends and federal holidays. During periods that the EU is not open, automated observations will be transmitted and the EU will transfer responsibilities to the 26 OWS. The EU can be available for Emergency Operations Center (EOC) / Installation Operations Center (IOC) briefings during off hours and weekends/holidays if weather conditions permit.

b. 26 OWS is operational 24 hours per day, 365 days a year. 26 OWS maintains a continuous weather watch for Fort Leonard Wood, issuing weather watches and warnings as necessary.

Chapter 2
WEATHER WARNINGS

2-1. Warnings

a. The 26 OWS or the FLW EU issues weather warnings for FLW for the following criteria:

CRITERIA	DESIRED LEAD TIME
Tornado or Funnel cloud	15 Minutes
Severe Thunderstorm (Winds 45 knots or greater and/or hail 3/4 inch or greater)	30 Minutes
Moderate Thunderstorms (Winds 35 knots or greater but less than 45 knots and/or hail 1/4 inch but less than 3/4 inch)	30 Minutes
Damaging winds equal to or greater than 45 knots not from thunderstorms	60 Minutes
Strong winds equal to or greater than 35 knots not from thunderstorms	30 Minutes
Heavy rain or snow. 2 inch accumulation in a 12 hour period	60 Minutes
Freezing Precipitation	60 Minutes
Falling and/or blowing snow and visibility less than or equal to 1/4 mile and winds greater than or equal to 30 knots lasting 3 hours (Blizzard)	60 Minutes
Lightning observed within 5 or 10 miles of Forney Airfield	Observed

b. Weather Warnings are currently disseminated and displayed on the Joint Environmental Toolkit (JET), via weather dissemination system, directly from 26 OWS or the EU to the FLW Watch Office, DPTMS during duty hours and to the Watch Office NCO during non-duty hours. Any changes to the Watch Office telephone numbers must be promptly reported. FLW internal dissemination procedures are detailed in paragraph 2-4.

c. Weather Warnings are valid for the entire FLW military reservation.

d. The 26 OWS/EU use automated observation, radar, and lightning display systems to issue and cancel lightning warnings. This technology is not perfect and may not be as timely or as accurate as local weather observations or local lightning detection systems.

e. Emergency alert and notification systems are installed in the installation Watch Office which provide instantaneous 24 hours a day coverage of severe weather posing an imminent danger and threat. After duty hours the Watch Office NCO will initiate either sirens, cable tv, or the automated notification system to facilitate the protection of personnel and assets located on the installation.

2-2. Weather Watches

The 26 OWS/EU issue weather watches for FLW for the following criteria:

CRITERIA	DESIRED LEAD TIME
Tornado or funnel cloud	As potential warrants
Severe thunderstorm (Winds 45 knots or greater and/or hail $\frac{3}{4}$ inch or greater)	As potential warrants
Moderate Thunderstorms (Winds 35 knots or greater but less than 45 knots and/or hail $\frac{1}{4}$ inch but less than $\frac{3}{4}$ inch)	As potential warrants
Damaging winds equal to or greater than 45 knots not from thunderstorms	As potential warrants
Strong winds equal to or greater than 35 knots not from thunderstorms	As potential warrants
Heavy rain or snow. 2 inch accumulation in a 12 hour period	As potential warrants
Freezing precipitation	As potential warrants
Falling and/or blowing snow and visibility less than or equal to $\frac{1}{4}$ mile and winds greater than or equal to 30 knots lasting 3 hours (Blizzard)	As potential warrants
Lightning observed within 5 or 10 miles of Forney Airfield	30 minutes

2-3. Observed Weather Advisory Criteria

During normal observing duty hours, FLW EU will issue advisories whenever the following occurs: Surface winds 45 knots or greater, wind chill or ambient temperatures at or below 15° F and 0° F.

2-4. Procedures for Requesting Weather Warning Service

- a. FLW units may submit requests for weather warning advisory service to Director DPTMS.
- b. Initial requests for weather warning service will include the following:
 - (1) Name of the unit or site for which support is requested, Building number and telephone number.
 - (2) The weather conditions for which warnings are required using the criteria in paragraphs 2-1 and 2-2 above.
 - (3) Complete justification for the service.
 - (4) The daily time period during which the service is requested.
- c. Requests for changes to existing weather warning service will be accomplished in the same manner as initial requests.
- d. Activities requesting weather warning service will adhere to the criteria as stated in paragraphs 2-1 and 2-2 above. Requests for service based on weather criteria other than those listed will be considered; however, detailed justification must accompany the request. Such justification will include an estimate of the effects that such weather will have on operational or structural capabilities of specified resources, as obtained from technical manuals or technical bulletins. This procedure is necessary in order to justify specialized weather warning support from the EU or 26 OWS.

2-5. General Dissemination Procedures

Weather Warnings.

(1) Observed weather warnings for the occurrence of lightning are disseminated by OL-C, 3 WS, via weather dissemination system, to IOC during duty hours or the Watch Office during non-duty hours, when the weather station is open. 26 OWS disseminates all other warnings via weather dissemination system to the Watch Office. The Watch Office then disseminates the warnings throughout the installation. Offices receiving weather warning service are responsible for providing any changes in contact information to the IOC.

(2) Disseminators and recipients of weather warnings will not alter the text of the weather warnings without prior approval.

2-6. Dissemination Responsibilities

a. DPTMS is responsible for:

(1) Staff supervision of the activities of the EU pertaining to weather support for this command.

(2) Initiating, coordinating, and consolidating the command's requirements for weather information and service.

(3) Disseminating weather advisories and warnings.

(4) Range Operations and Combat Training Company are responsible for disseminating wet bulb global temperature (WBGT) readings.

b. EU is responsible for:

(1) Providing a monthly climatology summary to FLW units.

(2) Forwarding other command climatology and meteorological data requirements to 26 OWS.

(3) Providing surface weather observations during weather station operating hours. Outside of posted weather station hours, the automated observation system will transmit weather observations.

(4) Disseminating observed weather advisories and observed lightning warnings to IOC/Watch Office (during observing duty hours only).

(5) Disseminating all significant pilot reports (PIREPs) via dissemination system.

(6) Providing/interpreting weather data, obtained from Air Force communications systems to pilots for use in flight planning.

c. The IOC during duty hours or the Watch Office after duty hours is responsible for issuing flood stage advisories whenever United States Weather Bureau upstream gauging stations indicate anticipated flood stage conditions on the Big Piney River.

d. The Directorate of Public Works (DPW) Natural Resources Branch personnel, or Fire and Emergency Services personnel, are responsible for relaying fire index computations to the weather station.

DPW Natural Resources Branch relays the index when they are at the weather Station; the DES Fire and Emergency Services is responsible after business hours and on the weekends.

e. The Watch Office NCO is responsible for disseminating warnings and advisories during the periods the IOC is closed.

f. Commanders of major units are responsible for:

(1) The dissemination of weather warnings or flood stage conditions to subordinate units or activities.

(2) Providing the post Watch Officer with telephone numbers of unit or activity officials to be called during non-duty hours.

Chapter 3 WEATHER WARNING PLANS AND REPORTING

3-1. Planning

a. Assigned and attached units receiving weather warning service will prepare and publish a weather warning plan which will include as a minimum the following information:

(1) Local office authorized to receive weather warnings.

(2) Persons and activities notified upon receipt of weather warnings.

(3) Protective measures taken when weather warnings are received.

(4) Criteria for which warnings are received.

(5) Provisions for recording the receipt and dissemination of warnings.

(6) Source(s) of weather warnings.

(7) Procedures for preparing and submitting damage reports in accordance with paragraph 3-2 below.

b. Weather warning plans and requirements will be reviewed annually and revised as required.

3-2. Weather Damage Reports

Damage to buildings/facilities or injuries to personnel, known or suspected to have been caused as a result of weather phenomenon, will be reported to Directorate of Emergency Services (DES) and the IOC who will then report to OL-C, 3 WS (596-0702) within 24 hours Monday - Friday and on Mondays if the occurrence is over a weekend.

3-3. Aviation Weather Support.

a. Surface Weather Observations.

(1) A Basic Weather Watch (BWW) is conducted by OL-C, 3 WS, to detect and report significant changes in specified weather elements. In addition to taking and disseminating required observations, the BWW involves the minimum requirements to re-check weather conditions at intervals not to exceed 20 minutes since the last observation, to determine the need for a Local or Special Observation when any of the following conditions are observed to be occurring or are forecast to occur within 1 hour:

- (a) Ceiling forms below, dissipates, or increases/decreases to equal or exceed 1,500 feet.
- (b) Visibility decreases to less than 3 miles, or increases to equal or exceed 3 miles.
- (c) Precipitation (any form).
- (d) Thunderstorms.
- (e) Fog or mist.

(2) OL-C, 3 WS will take and locally disseminate surface weather observations, via weather dissemination system to Airfield (FORNEY) Operations, the Control Tower, the Army National Guard aviation facility, and the contract commuter airline.

(a) Aviation Routine Weather Report (METAR) observations are complete observations taken hourly.

(b) Special Observation Criteria (SPECI), as listed in Appendix, are taken to report significant changes in weather elements. These observations will be taken in accordance with criteria, specified in AFM 15-111. SPECIs may also be taken for appropriate ceiling/visibility criteria specified in the DOD FLIP and AR 95-1.

(3) Local dissemination formats for weather observations are:

(a) METAR - KTBN METAR 1955 20010KT 7SM SCT040 27/11 A3027 A02 SLP210 PA +830 DA - 844

(b) SPECI - KTBN SPECI 2013 23013KT 5SM -SHRA BKN040 26/13 A3027 A02 PA +830 DA -844

(4) Cooperative Weather Watch. The EU, due to other weather operations duties, cannot monitor the weather continuously, Forney Control Tower personnel will maintain a cooperative weather watch, informing the weather observer (duties permitting) whenever:

(a) A ceiling forms, dissipates, raises or lowers.

(b) Visibility increases or lowers through Instrumental Flight Rules (IFR)/Visual Flight Rules (VFR) criteria.

(c) A thunderstorm begins or ends.

(d) A tornado or funnel cloud is observed.

(e) Precipitation starts or ends.

(f) Lightning is first observed.

(g) An obstruction to vision appears (fog, smoke, etc.).

(h) A significant pilot report (PIREP) is received (i.e., PIREP of turbulence, icing, wind shear, clouds, visibility, etc.).

b. Flight Weather Briefings.

(1) Full time remote aviation weather briefing service is available from 26 OWS, Barksdale AFB, LA.

(2) During duty hours, the EU will provide transient pilots with a weather briefing and the current weather conditions at Forney. EU will assist pilots to obtain updated observed/forecast weather conditions.

c. Training of Army Air Traffic Controllers (ATC). At the request of the ATC Branch, OL-C, 3 WS will conduct weather observation training and certification for Army Air Traffic Controllers to take limited weather observations. Controllers will be certified prior to being rated to pass meteorological information to the weather station.

d. Maintenance of Weather Records.

(1) In the event of an aircraft accident or incident, a file of weather data will be prepared and maintained for a period of not less than 6 months.

(2) Routine weather records (observations) will be maintained in accordance with applicable Air Force directives.

(3) Weather records will be made available to aircraft accident investigation officers/boards upon request.

3-4. Support to the FLW EU

a. Forney Control Tower/Airfield Operations will:

(1) Notify OL-C, 3 WS whenever they open or close the ATC function.

(2) Maintain a cooperative weather watch with OL-C, 3 WS, duty priorities permitting.

(3) Relay tower visibility whenever the reported prevailing visibility is 4 miles or less and differs from the observer's reported visibility by one or more reportable values.

(4) Notify OL-C, 3 WS whenever the active runway changes.

(5) Notify OL-C, 3 WS of all in-flight emergencies, incidents, or accidents.

(6) Pass significant PIREPS to OL-C, 3 WS for further dissemination.

(7) Provide OL-C, 3 WS, upon receipt, a copy of the latest FLIP for review of any possible changes to weather support requirements.

b. Allow OL-C, 3 WS use of Building 5007 as the Alternate Observing Location (AOL) during periods of extended weather station evacuation.

c. The MSCoE will provide administrative and logistics support in accordance with AR 115-10/AFJI 15-157.

3-5. Limiting Factors

a. Personnel assigned to OL-C, 3 WS, are not full time (24 hr.) weather technicians. Coverage outside operating hours might be limited due to manning issues. The OWS is not staffed to provide specialized briefings. If FLW units need specialized weather support outside normal hours please coordinate with EU leadership prior to the exercise or scheduled event.

b. 26 OWS is limited in its ability to issue accurate weather warnings for FLW when OL-C, 3 WS personnel are not on duty to provide timely observations of the current weather.

c. Surface observations at Forney are limited by a tree line from East to South to West.

d. OL-C, 3 WS weather personnel will accomplish duties IAW the following priority list:

(1) Perform Emergency War Orders Tasking.

(2) Respond to Aircraft and Ground Emergencies.

(3) Take and Disseminate Surface Weather Observations.

(4) Produce and Disseminate Observed Weather Advisories and Warnings.

(5) Provide Support to Forney Operations / FLW units.

(6) Transmit PIREPS and AIREPS.

(7) Perform METWATCH and MISSIONWATCH Duties.

(8) Provide "Eyes Forward" / Collaborate with OWS.

(9) Perform Back-up Procedures During 26 OWS Service Interruptions.

(10) Provide Other Weather Support.

Chapter 4
MISSION EXECUTION FORECAST (MEF)

4-1. Planning

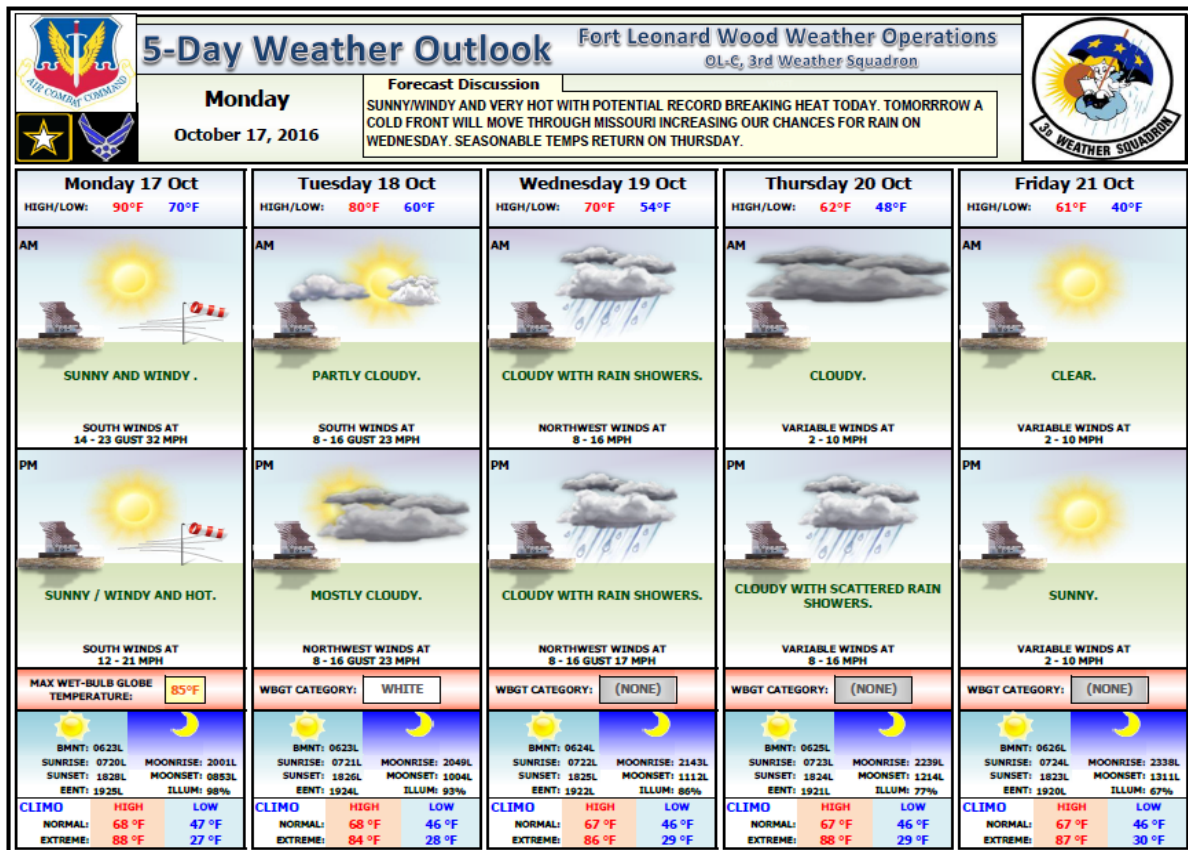
- a. Assigned and attached units receiving weather service can request a Mission Execution Forecast (MEF) by email if the unit is not able to access the FLW Common Operational Picture (COP) . The unit must make a formal request by memorandum through the EU.
- b. MEFs requirements will be reviewed annually and revised as required by the EU.

4-2. MEF Dissemination

A non-amendable 5 Day MEF will be posted at 0800L and 1600L to the FLW COP Monday - Friday. During inclement weather the forecaster on duty will adjust the timing to meet mission requirements.

4-3. MEF Parameters

The 5 Day MEF will contain the elements below.



4-4. Aviation MEF

a. The EU will disseminate an aviation MEF to the Charley Company 1/106 AVN as a courtesy Monday - Friday at 0800 Local and 1600 Local. This will again be a non-amendable MEF. The 1/106 must call for an update and receive the forecaster's initials for the brief to be legal IAW Army Regulation (AR) 95-1.

b. The MEF parameters will contain the elements below.

Mission Execution Forecast															Fort Leonard Wood Weather Operations									
OL-C, 3rd Weather Squadron																								
Monday, October 17, 2016					Valid: 17 / 0800L (17/1300Z) to 17 / 2000L (18/0100Z)					MEF: 17A														
Current TAF (times UTC): KTNB 17121812 17015G22KT P6SM FEW150 WS02021040KT FM171400 19017G28KT P6SM SKC FM180000 18015KT P6SM SKC FM180800 19010KT P6SM SKC					Advisory / Warning / Watch (Visit 26th OWS website, use JET, or contact WX)			Solar / Lunar BMNT: 0623L SUNRISE: 0720L SUNSET: 1828L EENT: 1925L MOONRISE: 2001L MOONSET: 0853L MOON PCT: 98% (THIS MORNING)				Space Weather FREQ: No impact. GPS: No impact. RAD: No impact.		Tropical Storm(s) / impact date: None.		Mission airframe: H-60 mission:		Briefing Record Brief time/initials: Void time/initials: Rebrief/initials:						
Hourly Weather Data															Airfield Go / No Go				Max / Min Data		Flight Level Data			
Time	Temperature	Dew Point	RH	WBGT	ALSTG	PA (KTNB)	DA (KTNB)	C-12	H-60	UAS	GRND OPS	Max Temp	Min Temp	Max PA	Max DA	MSL	Winds (KTS) / Temps (°C)							
0800L 1300Z	22 °C 71 °F	65 °F	81%	69 °F	29.78 ins	1290 R	2396 R	G	Y	R	G	32 °C 90 °F	22 °C 71 °F	1,439 ft	3,789 ft	FL200:	26030 / -07							
0900L 1400Z	24 °C 76 °F	66 °F	71%	75 °F	29.78 ins	1290 R	2729 R	Y	Y	R	Y	22 °C 71 °F	22 °C 71 °F	1,439 ft	3,789 ft	FL180:	26030 / -02							
1000L 1500Z	27 °C 80 °F	68 °F	67%	80 °F	29.77 ins	1299 R	3008 R	Y	Y	R	Y	Max PA	Max DA	1,439 ft	3,789 ft	FL150:	26035 / +05							
1100L 1600Z	29 °C 84 °F	67 °F	57%	82 °F	29.75 ins	1318 R	3297 R	Y	Y	R	Y	29.62 ins	29.62 ins	1,439 ft	3,789 ft	FL140:	26040 / +07							
1200L 1700Z	31 °C 88 °F	67 °F	50%	84 °F	29.72 ins	1345 R	3598 R	Y	Y	R	Y	Min ALSTG	Min ALSTG	1,439 ft	3,789 ft	FL120:	25045 / +10							
1300L 1800Z	32 °C 90 °F	65 °F	44%	85 °F	29.70 ins	1364 R	3755 R	Y	Y	R	Y	29.62 ins	29.62 ins	1,439 ft	3,789 ft	FL100:	24050 / +14							
1400L 1900Z	32 °C 90 °F	66 °F	45%	85 °F	29.67 ins	1392 R	3789 R	Y	Y	R	Y	Relative Humidity	Relative Humidity	1,439 ft	3,789 ft	FL090:	24045 / +16							
1500L 2000Z	32 °C 89 °F	64 °F	44%	83 °F	29.65 ins	1411 R	3746 R	Y	Y	R	Y	Max	Min	1,439 ft	3,789 ft	FL080:	24045 / +18							
1600L 2100Z	32 °C 89 °F	63 °F	42%	82 °F	29.62 ins	1439 R	3780 R	Y	Y	R	Y	81%	42%	1,439 ft	3,789 ft	FL070:	24050 / +20							
1700L 2200Z	31 °C 88 °F	63 °F	44%	80 °F	29.62 ins	1439 R	3714 R	Y	Y	R	Y	Min Freezing Level	Min Freezing Level	1,439 ft	3,789 ft	FL060:	23050 / +21							
1800L 2300Z	30 °C 86 °F	62 °F	45%	76 °F	29.63 ins	1429 R	3569 R	Y	Y	R	Y	160	160	1,439 ft	3,789 ft	FL050:	22050 / +21							
1900L 0000Z	27 °C 81 °F	64 °F	56%	73 °F	29.63 ins	1429 R	3235 R	G	G	R	G	Max WBGT	Max WBGT	1,439 ft	3,789 ft	FL040:	21045 / +20							
2000L 0100Z	26 °C 79 °F	66 °F	65%	73 °F	29.64 ins	1420 R	3091 R	G	G	R	G	85 °F	85 °F	1,439 ft	3,789 ft	FL030:	20040 / +22							
Range Mission Weather covers at a minimum, 35 mile radius Local Flying Area (Reg. 95-1)																	(H-60) Go / No Go							
FTL WOOD LFA, ALL AREAS Winds: 20015G25KT tempo: 20020G30 (10-18L) Vis/WX: 7SM															Hazards: LGT-MDT TURB SFC-100		Y							
Valid: 0800L - 1600L Clouds: FEW 050/050																								
Range Outlook Planning Forecast																								
Tuesday, 18 Oct					Wednesday, 19 Oct					Thursday, 20 Oct					Friday, 21 Oct									
0000-1200L		1200-2400L			0000-1200L		1200-2400L			0000-1200L		1200-2400L			0000-1200L		1200-2400L							
MIN VIS: 7		MIN VIS: 7			MIN VIS: 5 VCSH		MIN VIS: 5 SHRA			MIN VIS: 7		MIN VIS: 5 VCSH			MIN VIS: 7		MIN VIS: 7							
MIN CIG: NONE		MIN CIG: 020			MIN CIG: 020		MIN CIG: 020			MIN CIG: 030		MIN CIG: 030			MIN CIG: NONE		MIN CIG: NONE							
WIND: 20010G20KT		WIND: 33010G20KT			WIND: 33010KT		WIND: 33010G15KT			WIND: VRB05KT		WIND: VRB10KT			WIND: VRB05KT		WIND: VRB05KT							
HILO: 27C (80F) 16C (60F)		MAX WBGT: (NONE)			HILO: 21C (70F) 12C (54F)		MAX WBGT: (NONE)			HILO: 17C (62F) 8C (48F)		MAX WBGT: (NONE)			HILO: 16C (61F) 4C (40F)		MAX WBGT: (NONE)							
Solar / Lunar Data					Solar / Lunar Data					Solar / Lunar Data					Solar / Lunar Data									
BMNT: 0623L		MOONRISE: 2048L			BMNT: 0624L		MOONRISE: 2143L			BMNT: 0626L		MOONRISE: 2238L			BMNT: 0628L		MOONRISE: 2338L							
SUNRISE: 0721L		MOONSET: 1004L			SUNRISE: 0723L		MOONSET: 1112L			SUNRISE: 0723L		MOONSET: 1214L			SUNRISE: 0724L		MOONSET: 1311L							
SUNSET: 1828L		MOON PCT: 83%			SUNSET: 1828L		MOON PCT: 88%			SUNSET: 1824L		MOON PCT: 77%			SUNSET: 1823L		MOON PCT: 87%							
EENT: 1824L					EENT: 1822L					EENT: 1821L					EENT: 1822L									
Contact Information: phone: 573-596-0702 DSN: 581-0702															PMSV radio: None		web visit: http://www.wood.army.mil/snair/snair.pdf							

Appendix

Section I

SPECIAL OBSERVATION CRITERIA

Take, disseminate, and record SPECI Observations to report significant changes in weather elements when criteria, as indicated below, are observed.

A-1. CEILING. The ceiling is observed to form below, decrease to less than or if below, increase to equal or exceed: 3000, 2000, 1500, 1000, 800, 700, 600, 500, 400, 300, 200, or 100 feet.

A-2. SKY CONDITION. A layer of clouds or obscuring phenomena aloft is observed below 600 feet and no layer aloft was reported below 600 feet in the previous METAR or SPECI observation.

A-3. VISIBILITY. Prevailing visibility is observed to decrease to less than or, if below, increases to equal or exceed: 3, 2, 1 3/4, 1 1/2, 1 1/4, 1, 3/4, 1/2, or 1/4 mile.

A-4. TORNADO, FUNNEL CLOUD, OR WATERSPOUT: Is observed, disappears from sight or ends.

A-5. THUNDERSTORM: Begins or ends.

A-6. PRECIPITATION:

- a. Hail begins or ends.
- b. Freezing precipitation begins, ends, or changes in intensity.
- c. Ice pellets begin, end, or change in intensity.
- d. Any other type of precipitation begins or ends.

A-7. Squall: When squalls occur.

A-8. WIND SHIFT: The wind direction changes by 45 degrees or more in less than 15 minutes and the wind spread is 10 knots or more throughout the wind shift.

A-9. RUNWAY CONDITIONS: Upon receipt, transmit runway condition readings as a SPECI or append to a METAR or SPECI being taken at time notified.

A-10. Runway Visual Range (RVR):

- a. RVR for the active runway decreases to less than, or if below, increases to equal or exceed 6000, 5000, 2400, 2000, or 1200 feet.
- b. Prevailing visibility conditions for reporting RVR are first observed and when the prevailing visibility conditions no longer exist.
- c. RVR is first determined as unavailable (RVRNO) for the runway in use, and when it is first determined that the RVRNO report is no longer applicable, provided conditions for reporting RVR exist.

A-11. VOLCANIC ERUPTION: When eruption or volcanic ash are first noted.

A-12. MISCELLANEOUS: Any other meteorological situation that, in the weather technician's opinion, is critical.

A-13. RESUMPTION OF OBSERVING SERVICES: Take, disseminate, and record a SPECI within 15 minutes after returning to duty following a break in observing coverage if a METAR was not filed as scheduled during that 15 minute period.

A-14. Aircraft Mishap: Immediately following notification or sighting of an aircraft mishap at or near the observing location, unless there has been an intervening observation.

Section II.

Weather Watch/Warning/Advisory (WWA's)

(1) Weather Watch/Warning/Advisory (WWA's). WWA's are issued by the 26 Operational Weather Squadron (26 OWS) or by the FLW EU, for the post reservation only, and valid for a specified time period. Criteria and area are determined by the stated needs of the supported organizations. A WWA implies the likelihood of occurrence and/or forecast of phenomena of such intensity as to prompt immediate protective action by the supported organizations.

(2) Severe Weather Warning. A specific weather warning issued for tornadoes, hail 3/4 inch or larger in diameter, or winds gusting to 45 knots or more.

(3) Lead Time. The time elapsed between the issuance and first occurrence of phenomena requiring the warning/advisory. The desired lead times in paragraph 2-1 are established by supported organizations based on the time needed to react to the warning, tempered by the current "state of the art" of weather forecasting.

(4) Weather Advisory. A special notice that certain weather conditions which may be hazardous to personnel or equipment is occurring at Fort Leonard Wood. It is issued to minimize injury and/or damage.

(5) Weather Observations. Reports of existing weather conditions at a specific time and place, such as Waynesville Regional Airport at Forney Field (WRAFF). Observations include sky condition, weather (rain, thunderstorms, hail, snow, etc.), visibility and obstructions to visibility (dust, haze, fog, etc.), temperature, dew point, wind direction and speed, wind chill factor, altimeter setting, pressure altitude (PA), and density altitude (DA) (upon request).

Glossary

26 OWS

26th Operational Weather Squadron

AG Bn

Adjutant General Battalion

AFB

Air Force Base

AFJI

Air Force Joint Instruction

AFM

Air Force Manual

AOL

Alternate Observing Location

AR

Army Regulation

ATAD

Automatic Telephone Answering Service

ATC

Air Traffic Control

AWWC

Army Weather Warning Center

BWW

Basic Weather Watch

COP

Common Operational Picture

DA

Density Altitude

DES

Directorate of Emergency Services

DOD

Department of Defense

DPTMS

Directorate of Plans, Training, Mobilization and Security

DPW

Directorate of Public Works

EOC

Emergency Operation Center

EU

Weather Exploitation Unit

FLW

Fort Leonard Wood

GLWACH

General Leonard Wood Army Community Hospital

IAW

In Accordance With

IFR

Instrumental Flight Rules

IOC

Installation Operations Center

LOCAL

Local Observation

METAR

Aviation Routine Weather Report

NCS

Net Control Station

MSCOE

Maneuver Support Center of Excellence

NOTAMS

Notices to Airmen

OL-C, 3 WS

Operating Location C, 3rd Weather Squadron

OWS

Operational Weather Squadron

PA

Pressure Altitude

PIREP

Pilot Report

RCR

Runway Condition Readings

RSC

Runway Surface Condition

RVR

Runway Visual Range

SPECI

Special Observation

USA

United States Army

USAF

United States Air Force

VFR

Visual Flight Rules

WBG

Wet Bulb Global Temperature

WRAFF

Waynesville Regional Airport at Forney Field