

NWS Forecast Discussions around 5-7 Jun 2014 ozone events (Thursday - Saturday), most relevant followed by detailed discussion:

MOST RELEVANT:

815 AM PDT THU JUN 5 2014

.AVIATION...FOR MCCARRAN...LIGHT AND VARIABLE WINDS EXPECTED IN THE MORNING HOURS BEFORE TRANSITIONING TO A MORE EASTERLY **FLOW** FAVORING CONFIG 2. WINDS SHOULD BE PRIMARILY AT OR BELOW 9 **KTS** THROUGH THE AFTERNOON. WINDS WILL SHIFT WEST THIS EVENING.

925 PM PDT THU JUN 5 2014

.AVIATION...FOR MCCARRAN...SOUTHWESTERLY WINDS AROUND 10 KNOTS WILL PERSIST OVERNIGHT. WINDS WILL GRADUALLY WEAKEN OVERNIGHT AND BECOME LIGHT AND VARIABLE AFTER 12Z. A LIGHT EASTERLY COMPONENT CAN AGAIN BE EXPECTED FRIDAY AFTERNOON.

907 AM PDT FRI JUN 6 2014

.AVIATION...FOR MCCARRAN...LIGHT WIND UNTIL AROUND NOON WHEN AN EASTERLY WIND AT LESS THAN 10 **KTS** DEVELOPS. A SOUTH-SOUTHWEST WIND WILL DEVELOP AROUND 23Z THIS AFTERNOON AT 8-12 **KTS** AND WILL CONTINUE THROUGH THE NIGHT. NO SIGNIFICANT CLOUDS.

FULL DETAIL FOLLOWS:

FXUS65 KVEF 050415 AAA  
AFDVEF

**AREA FORECAST DISCUSSION**

**NATIONAL WEATHER SERVICE** LAS VEGAS NV

**915 PM PDT WED JUN 4 2014**

.SYNOPSIS...ISOLATED THUNDERSTORMS ARE POSSIBLE IN THE AFTERNOON AND EVENING HOURS THURSDAY AND FRIDAY ALONG THE CREST AND IN THE EASTERN SLOPES OF THE SOUTHERN SIERRA NEVADA. OTHERWISE EXPECT DRY CONDITIONS WITH A WARMING TREND INTO EARLY NEXT WEEK. TYPICAL GUSTY AFTERNOON AND EVENING WINDS CAN BE EXPECTED.

.UPDATE...A BAND OF **HIGH CLOUDS** MOVING AWAY OVER NORTHERN ARIZONA WILL LEAVE THE FORECAST AREA UNDER A CLEAR SKY THE REST OF THE NIGHT. THE 00Z **NAM** AND **GFS** CONTINUE TO INDICATE LIMITED **MOISTURE** AND SUFFICIENT **INSTABILITY** TO SUPPORT THE POTENTIAL FOR AFTERNOON **CONVECTION** OVER THE SOUTHERN SIERRA THURSDAY AND FRIDAY.

THE MAIN PROBLEM WILL BE THE UPWARD TEMPERATURE TREND WITH HIGHS APPROACHING EXCESSIVELY HOT LEVELS BY SUNDAY. THE **ECMWF** SOLUTION HAS A BETTER INDICATION OF THIS THAN THE **GFS**. WILL HAVE TO WAIT A FEW HOURS TO SEE IF THE LATEST **ECMWF** IS CONSISTENT WITH THE RUN 24 HOURS AGO. NO CHANGES NEEDED FOR NOW.

.SHORT TERM...

NO SIGNIFICANT CHANGES TO THE FORECAST WITH HOT AND DRY CONDITIONS OVER MUCH OF THE AREA THE NEXT FEW DAYS. ONLY EXCEPTION IS THE POTENTIAL FOR A **THUNDERSTORM** OR TWO TO DEVELOP ALONG THE SOUTHERN SIERRA CREST AND CENTRAL NEVADA MOUNTAINS THURSDAY AND FRIDAY.

FOR THE TEMPERATURES...LOOKING AT A SLOW WARMING TREND OF A DEGREE OR TWO PER DAY THROUGH SATURDAY. THIS PLACES HIGHS AT 5-8 DEGREES ABOVE NORMAL THROUGH THE END OF THE WEEK.

FOR THE THUNDERSTORMS...A WEAK WAVE SHOULD APPROACH THE CENTRAL CALIFORNIA COAST THURSDAY...THEN PASS OVER THE SOUTHERN SIERRA DURING PEAK HEATING HOURS ON FRIDAY. **INSTABILITY** WILL INCREASE AS THE WAVE APPROACHES...WITH FRIDAY LOOKING AS THE BETTER DAY FOR THUNDERSTORMS DUE TO A BIT MORE COOLING ALOFT WITH THE WAVE OVERHEAD. ANY THUNDERSTORMS THAT DEVELOP WILL HAVE THE POTENTIAL TO PRODUCE GUSTY **OUTFLOW** WINDS AND DRY LIGHTING STRIKES OUTSIDE THE SMALL RAIN CORES.

.LONG TERM...SUNDAY THROUGH WEDNESDAY...

HIGH PRESSURE DEVELOPING OVER THE AREA WILL LEAD TO SOME RATHER WARM TEMPERATURES FOR THE START OF NEXT WEEK. READINGS ON SATURDAY ARE EXPECTED TO BE AROUND 8-10 DEGREES ABOVE NORMAL...BUT THE POTENTIAL OF A WEAK **TROUGH** OFF THE WEST COAST COULD HELP INCREASE THE SOUTHWEST **FLOW** SUNDAY AND MONDAY AND HAVE TEMPERATURES FLIRTING WITH **EXCESSIVE HEAT** CRITERIA. THE CRITERIA...BASED ON HIGH TEMPERATURES IN LAS VEGAS WOULD NEED TO REACH 107 DEGREES OR HOTTER THIS SATURDAY THROUGH MONDAY. RIGHT NOW WE ARE FORECASTING A HIGH OF 107 ON SUNDAY AND MONDAY. MODELS ARE LEANING AT HIGHS A DEGREE OR TWO WARMER FOR MONDAY THAN SUNDAY...SO APPEARS MONDAY HAS THE BETTER POTENTIAL FOR REACHING **EXCESSIVE HEAT** CRITERIA. THE HIGH SHOULD SHIFT TO THE EAST STARTING TUESDAY WHICH WOULD BRING 2-5 DEGREES OF COOLING.

&&

.AVIATION...FOR MCCARRAN...**WIND DIRECTION** WILL BE PREDOMINATELY SOUTH-SOUTHWEST THROUGH THE OVERNIGHT HOURS. LIGHT AND VARIABLE WINDS TO RETURN AROUND 15Z FRIDAY. A LIGHT EAST OR SOUTHEAST WIND IS POSSIBLE FOR 17-21Z FRIDAY, FOLLOWED BY A RETURN TO A SOUTH-SOUTHWEST 10 KT WIND FOR FRIDAY AFTERNOON. A CLEAR SKY IS FORECAST...ASIDE FROM A FEW **HIGH CLOUDS** PASSING SOUTH OF THE TERMINAL.

FOR THE REST OF SOUTHERN NEVADA...NORTHWEST ARIZONA...AND SOUTHEAST CALIFORNIA...WINDS SHOULD FAVOR TYPICAL **DIURNAL** TRENDS THROUGH TONIGHT WITH AFTERNOON AND EVENING GUSTS TO 15-25 **KTS** MAINLY AROUND KDAG. A FEW CLOUDS **AOA** 15K FEET OVER THE HIGHER TERRAIN OF INYO AND ESMERALDA COUNTIES THIS AFTERNOON AND EARLY EVENING. THERE COULD BE A STRAY **TSRA** POSSIBLE ALONG THE SOUTHERN SIERRA CREST THURSDAY AND FRIDAY.

&&

.VEF WATCHES/WARNINGS/ADVISORIES...  
NV...NONE.  
AZ...NONE.  
CA...NONE.  
&&

FXUS65 KVEF 051515  
AFDVEF

**AREA FORECAST DISCUSSION**  
**NATIONAL WEATHER SERVICE LAS VEGAS NV**  
815 AM PDT THU JUN 5 2014

.SYNOPSIS...A WARMING TREND ARE EXPECTED THROUGH EARLY NEXT WEEK. THE HOTTEST DAYS ARE EXPECTED TO BE SUNDAY AND MONDAY. WHILE ISOLATED THUNDERSTORMS ARE POSSIBLE IN THE AFTERNOON AND EVENING HOURS THROUGH MONDAY ALONG THE CREST AND IN THE EASTERN SLOPES OF THE SOUTHERN SIERRA NEVADA THE REST OF THE AREA WILL REMAIN DRY. TYPICAL GUSTY AFTERNOON AND EVENING WINDS CAN BE EXPECTED.  
&&

.UPDATE...CLEAR SKIES DOMINATE THE FORECAST AREA THIS MORNING. DRY AND WARM CONDITIONS ARE EXPECTED TODAY, WITH SCATTERED **CUMULUS** BUILD UPS POSSIBLE ALONG THE SIERRA CREST AND THE HIGHER TERRAIN OF LINCOLN, NYE, AND ESMERALDA COUNTIES. CAN`T COMPLETELY RULE OUT A STRAY SHOWER OR **LIGHTNING** STRIKE ALONG THE SIERRA CREST THIS AFTERNOON BUT CHANCES ARE MARGINAL AT BEST. LEFT THE SLIGHT CHANCE MENTION IN THE FORECAST BUT ANY DEVELOPMENT WILL BE SHORT LIVED AND WEAK. SLIGHTLY BETTER CHANCES EXIST TOMORROW AS A WEAK UPPER LOW APPROACHES THE SIERRA. FORECAST IS IN GOOD SHAPE AND NO UPDATES ARE PLANNED.

&&

.AVIATION...FOR MCCARRAN...LIGHT AND VARIABLE WINDS EXPECTED IN THE MORNING HOURS BEFORE TRANSITIONING TO A MORE EASTERLY **FLOW** FAVORING CONFIG 2. WINDS SHOULD BE PRIMARILY AT OR BELOW 9 **KTS** THROUGH THE AFTERNOON. WINDS WILL SHIFT WEST THIS EVENING.

FOR THE REST OF SOUTHERN NEVADA...NORTHWEST ARIZONA...AND SOUTHEAST CALIFORNIA...WINDS SHOULD FAVOR TYPICAL **DIURNAL** TRENDS THROUGH TONIGHT WITH AFTERNOON AND EVENING GUSTS TO 15-25 **KTS** MAINLY AROUND KDAG. A FEW CLOUDS **AOA** 15K FEET OVER THE HIGHER TERRAIN OF INYO AND ESMERALDA COUNTIES THIS AFTERNOON AND EARLY EVENING WITH A STRAY **TSRA** POSSIBLE ALONG THE CREST OR IN THE EASTERN SLOPES OF THE SOUTHERN SIERRA.

&&

.PREV DISCUSSION...FROM 309 AM PDT

.SHORT TERM...TODAY THROUGH SATURDAY NIGHT.

THE MAIN FOCUS TODAY INTO FRIDAY WILL BE ON THE BIG SWIRL CURRENTLY NOTED ON WATER VAPOR OFF THE COAST OF CALIFORNIA NEAR 35N/130W. THIS AREA OF LOW PRESSURE IN THE MID AND UPPER LEVELS OF THE **ATMOSPHERE** IS EXPECTED TO MOVE EAST THROUGH FRIDAY AND EVENTUALLY PASS ACROSS

SOUTHERN NEVADA FRIDAY NIGHT. CONSIDERING HOW MUCH DRY AIR IS AROUND THIS LOW WILL NOT HAVE A LOT OF **MOISTURE** TO WORK WITH AND ACROSS THE MAJORITY OF THE AREA IT IS ALSO VERY STABLE, THUS THE FORECAST WILL REMAIN DRY. THE EXCEPTION WILL BE ACROSS THE CREST AND EASTERN SLOPES OF THE SOUTHERN SIERRA NEVADA AND TO A LESSER EXTENT THE WHITE MOUNTAINS AND ESMERALDA COUNTY WHERE ENOUGH MID-LEVEL **MOISTURE** EXISTS THAT SOME **CUMULUS** SHOULD DEVELOP WITH THE HEATING OF THE DAY AND THEN DISSIPATE IN THE EVENING. THE BIGGER QUESTION IS WHETHER WE COULD SEE ANY THUNDERSTORMS. THE REGIONAL WRF, WHICH IS USUALLY THE MOST GUNG HO ON POPPING UP **CONVECTION** WITH MEASURABLE QPF, SHOWS THIS TODAY AND AGAIN ON FRIDAY. GIVEN HOW FAR THE LOW IS OFFSHORE TODAY, THIS MAY BE A BIT OF A STRETCH BUT WE KEPT IN THE ISOLATED **THUNDERSTORM** POTENTIAL. AS THE LOW MOVES ACROSS TOMORROW, THERE SHOULD BE BETTER **INSTABILITY** AND MID-LEVEL **MOISTURE** AND THE PROSPECTS ARE PROBABLY A BIT BETTER. THIS FEATURE WILL TAKE ITS TIME TO EXIT THE AREA AS IT SORT OF SITS IN THE BASE OF A LARGER SCALE **TROUGH** IN THE MID AND UPPER LEVELS AND AS A RESULT HANGS OUT ACROSS SOUTHERN NEVADA THROUGH SATURDAY EVENING. BEING ON THE BACK SIDE OF THIS FEATURE, THERE ARE DIFFERENCES IN THE MODELS IN HOW MUCH **INSTABILITY** AND MID-LEVEL **MOISTURE** REMAINS OVER THE NORTHWEST **CWFA** FOR SATURDAY, BUT ENOUGH SHOW IT TO KEEP IN ISOLATED AFTERNOON/EVENING THUNDERSTORMS.

AS FOR TEMPS, EXPECT ANOTHER VERY WARM DAY TODAY AND AGAIN ON FRIDAY AS FORECAST SOUNDINGS STILL SHOW ADDITIONAL WARMING BOTH DAYS. FOR SATURDAY, HEIGHTS DROP AND SOUNDINGS ARE WAY MORE ISOTHERMAL IN THEIR LOOK, SO **TEMPS** SHOULD CHANGE LITTLE FROM FRIDAY. THE WARMER **MET** STATISTICAL GUIDANCE HAS HAD A BETTER HANDLE WITH **MAX TEMPS** LATELY AND WAS A GOOD STARTING POINT. LOWS SHOULD WARM A FEW DEGREES AND IN WARMER PARTS OF VEGAS WILL LIKELY NOT FALL BELOW 80 OVER THE WEEKEND. AND THEN WE GET INTO THE HOT PART OF THE FORECAST.

.LONG TERM...SUNDAY THROUGH WEDNESDAY.

VERY HOT AND DRY CONDITIONS ARE EXPECTED BY LATE THIS WEEKEND INTO EARLY NEXT WEEK. GUIDANCE CONTINUES TO SUGGEST HIGHS FLIRTING WITH OR EXCEEDING **EXCESSIVE HEAT** CRITERIA FOR AT LEAST SUNDAY AND MONDAY [WHICH FOR THIS TIME PERIOD WOULD BE 107 DEGREES AT MCCARRAN IN LAS VEGAS]. WITH THIS PACKAGE HAVE HIGHS IN LAS VEGAS REACHING 107 SUNDAY AND 109 MONDAY WITH SLIGHTLY BETTER MIXING. THIS FORECAST CLOSELY FOLLOWS THE **ECMWF MOS** GUIDANCE THAT TENDS TO PERFORM WELL IN THESE SCENARIOS. AS A RESULT OUR FIRST **EXCESSIVE HEAT WATCH** OF THE YEAR WILL BE ISSUED THIS MORNING FOR SUNDAY AND MONDAY. A VERY WEAK WAVE THEN APPEARS TO DRIFT ACROSS THE REGION WITH LITTLE FANFARE TUESDAY INTO WEDNESDAY...BUT THIS SHOULD MODERATE THE TEMPERATURES BY AT LEAST 2-3 DEGREES AND MAY TAKE US BELOW **EXCESSIVE HEAT** LEVELS.

OUTSIDE OF THE VERY HOT CONDITIONS LITTLE IN THE WAY OF SENSIBLE WEATHER IS EXPECTED...WITH AFTERNOON BREEZES LIKELY BUT THEY SHOULD REMAIN BELOW CONCERNING LEVELS. THERE WILL BE SOME LOW-END **INSTABILITY** OVER PORTIONS OF THE SIERRA AND CENTRAL NEVADA AT TIMES BUT AT THIS POINT HAVE ONLY INCLUDED GHOST **POPS** AND SLIGHTLY HIGHER CLOUD COVERAGE IN THESE AREAS AT TIMES AS **MOISTURE** LOOKS LIMITED AT BEST.

&&

.VEF WATCHES/WARNINGS/ADVISORIES...  
NV...**EXCESSIVE HEAT WATCH** FROM SUNDAY MORNING THROUGH MONDAY EVENING  
FOR NVZ016-017-020>022.  
AZ...**EXCESSIVE HEAT WATCH** FROM SUNDAY MORNING THROUGH MONDAY EVENING  
FOR AZZ002-003-036.  
CA...**EXCESSIVE HEAT WATCH** FROM SUNDAY MORNING THROUGH MONDAY EVENING  
FOR CAZ522>527.  
&&

UPDATE...OUTLER  
PREVIOUS DISCUSSION...STACHELSKI/WOLCOTT

FXUS65 KVEF 060426  
AFDVEF

**AREA FORECAST DISCUSSION**  
**NATIONAL WEATHER SERVICE** LAS VEGAS NV  
**925 PM PDT THU JUN 5 2014**

.SYNOPSIS...WARM TEMPERATURES WILL CONTINUE THROUGH SATURDAY WITH  
VERY HOT TEMPERATURES IN STORE SUNDAY AND EARLY NEXT WEEK. THE HEAT  
IS EXPECTED TO PEAK ON MONDAY BEFORE GRADUALLY COOLING TUESDAY  
ONWARD. WHILE ISOLATED THUNDERSTORMS ARE POSSIBLE IN THE AFTERNOON  
AND EVENING HOURS THROUGH MONDAY ALONG THE CREST AND IN THE EASTERN  
SLOPES OF THE SIERRA THE REST OF THE REGION WILL REMAIN DRY. TYPICAL  
GUSTY AFTERNOON AND EVENING WINDS CAN BE EXPECTED.  
&&

.UPDATE...REMNANT **CIRRUS** FROM AFTERNOON AND EARLY EVENING **CONVECTION**  
THAT DEVELOPED OVER THE SIERRA WILL CONTINUE PUSHING ACROSS CENTRAL  
NEVADA. NO IMMEDIATE CHANGES NEEDED.

THE 00Z **NAM** AND **MAV MOS** GUIDANCE VALUES APPEAR A LITTLE CONSERVATIVE  
FOR LAS VEGAS SUNDAY. HOWEVER...A LOOK AT THE 850-700 LAYER **MEAN**  
TEMP FIELDS BY SUNDAY MORNING OFF BOTH MODELS SUPPORT MORE OF  
WARMING TREND THAN INDICATED BY THE **MOS** GUIDANCE. I THINK THE HIGHER  
**TEMPS** IN THE GOING FORECAST AND DETAILED IN THE PREVIOUS DISCUSSION  
ARE A BETTER BET. WILL HAVE TO WAIT A FEW HOURS FOR THE **ECMWF MOS**  
VALUES WHICH HAVE BEEN RUNNING CONSISTENTLY HIGHER AND SEEM TO BE  
MORE REALISTIC GIVEN THE **RIDGE** MIGRATING OVERHEAD SUNDAY.  
&&

.AVIATION...FOR MCCARRAN...SOUTHWESTERLY WINDS AROUND 10 KNOTS WILL  
PERSIST OVERNIGHT. WINDS WILL GRADUALLY WEAKEN OVERNIGHT AND BECOME  
LIGHT AND VARIABLE AFTER 12Z. A LIGHT EASTERLY COMPONENT CAN AGAIN  
BE EXPECTED FRIDAY AFTERNOON.

FOR THE REST OF SOUTHERN NEVADA...NORTHWEST ARIZONA...AND SOUTHEAST  
CALIFORNIA...WINDS SHOULD FAVOR TYPICAL **DIURNAL** TRENDS THROUGH  
TONIGHT THEN INCREASE FRIDAY AFTERNOON AND EVENING WITH GUSTS 15-25  
**KTS** ACROSS THE WESTERN MOJAVE DESERT. **CUMULUS** WILL AGAIN DEVELOP  
OVER THE TERRAIN OF INYO AND ESMERALDA COUNTIES FRIDAY AFTERNOON AND  
EARLY EVENING WITH A STRAY **TSRA** POSSIBLE ALONG THE CREST OR IN THE  
EASTERN SLOPES OF THE SOUTHERN SIERRA.

&&

.PREV DISCUSSION...  
230 PM PDT THU JUN 5

.SHORT TERM...TONIGHT THROUGH SUNDAY.

SCATTERED FLAT **CUMULUS** DEVELOPMENT CONTINUES THIS AFTERNOON ACROSS OUR SOUTHERN GREAT **BASIN** ZONES AND ALONG THE SIERRA CREST BUT SO FAR ANY VERTICAL DEVELOPMENT HAS BEEN LIMITED. WEAK **CLOSED LOW** CONTINUES TO APPROACH CENTRAL CALIFORNIA AND WHILE WE WILL BE HARD PRESSED TO INITIATE MUCH **CONVECTION** IN THE OTHERWISE VERY DRY **ATMOSPHERE** AT HAND, CANT COMPLETELY RULE OUT SOME MOUNTAIN DEVELOPMENT IN THE SIERRA SO I LEFT THE SLIGHT CHANCE **POPS** IN THE GRIDS FOR THIS EVENING. CHANCES WILL BE SLIGHTLY ENHANCED TOMORROW AS THE CLOSED LOW CENTER WILL BE SITTING JUST WEST OF THE SIERRA, IMPROVING UPPER LEVEL SUPPORT FOR ISOLATED MOUNTAIN **CONVECTION** IN THE AFTERNOON. SLIGHT CHANCES FOR WEAK **CONVECTION** IN THE SIERRA WILL CONTINUE INTO EARLY NEXT WEEK.

ELSEWHERE CONDITIONS WILL REMAIN DRY AND **SUNNY** THROUGH THE PERIOD. WEAK **CLOSED LOW** WILL MOVE OVERHEAD SATURDAY AND WHILE ITS INFLUENCE WILL BE MINIMAL, IT WILL COOL AREA TEMPERATURES A FEW DEGREES. THE 100 DEGREE FORECAST HIGH IN LAS VEGAS ON SATURDAY WILL BE THE COOLEST OF THE STRING AHEAD. HOWEVER AS THE LOW DEPARTS SATURDAY NIGHT A HIGH PRESSURE  **RIDGE** WILL BUILD OVERHEAD WITH HEIGHTS RISING AND AREA TEMPERATURES CLIMBING STARTING SUNDAY. **EXCESSIVE HEAT** CRITERIA (107F AT MCCARRAN) WILL BE FLIRTED WITH OR **MET** STARTING SUNDAY AND A **WATCH** FOR **EXCESSIVE HEAT** IS IN EFFECT STARTING AT THIS TIME. BE PREPARED FOR VERY HOT WEATHER LATE THIS WEEKEND AND EARLY NEXT WEEK IF PLANNING ANY OUTDOOR RECREATION OR EVENTS.

.LONG TERM...MONDAY THROUGH THURSDAY.

HIGH PRESSURE  **RIDGE** AXIS WILL SHIFT OVERHEAD WITH 500MB HEIGHTS PEAKING ON MONDAY. THIS WILL RESULT IN AREA TEMPERATURES CREEPING EVEN HIGHER ON MONDAY, LIKELY EXCEEDING OUR CRITERIA FOR EXCESSIVE HEAT ACROSS THE REGION. 700MB AND 850 MB TEMPERATURES SUPPORT HIGHS IN LAS VEGAS OF 107-110 WITH DEATH VALLEY LIKELY TO PEAK NEAR 120F. THE HEAT WILL GRADUALLY EASE AS INCREASED TROUGHING DEVELOPS ACROSS THE WEST FOR THE REMAINDER OF THE WEEK BUT TEMPERATURES WILL ONLY SLOWLY EASE, WITH TEMPERATURES STILL WELL ABOVE NORMAL TUESDAY BEFORE SLOWLY COOLING TO SLIGHTLY ABOVE NORMAL BY THE END OF THE WORK WEEK.

&&

.VEF WATCHES/WARNINGS/ADVISORIES...

NV...**EXCESSIVE HEAT WATCH** FROM SUNDAY MORNING THROUGH MONDAY EVENING FOR NVZ016-017-020>022.

AZ...**EXCESSIVE HEAT WATCH** FROM SUNDAY MORNING THROUGH MONDAY EVENING FOR AZZ002-003-036.

CA...**EXCESSIVE HEAT WATCH** FROM SUNDAY MORNING THROUGH MONDAY EVENING FOR CAZ522>527.

&&

UPDATE...ADAIR  
PREV DISCUSSION...OUTLER

FXUS65 KVEF 061608 AAA  
AFDVEF

**AREA FORECAST DISCUSSION**  
**NATIONAL WEATHER SERVICE LAS VEGAS NV**  
**907 AM PDT FRI JUN 6 2014**

.SYNOPSIS...ABOVE NORMAL TEMPERATURES WILL CONTINUE THROUGH SATURDAY WITH VERY HOT TEMPERATURES IN STORE SUNDAY AND EARLY NEXT WEEK. THE HEAT IS EXPECTED TO PEAK ON MONDAY BEFORE GRADUALLY COOLING TUESDAY ONWARD. WHILE ISOLATED THUNDERSTORMS ARE POSSIBLE IN THE AFTERNOON AND EVENING HOURS THROUGH MONDAY ALONG THE CREST AND IN THE EASTERN SLOPES OF THE SIERRA THE REST OF THE REGION SHOULD REMAIN DRY. TYPICAL GUSTY AFTERNOON AND EVENING WINDS CAN BE EXPECTED.

&&

.UPDATE...MORNING VISIBLE IMAGERY SHOWS SOME ACCAS OVER WHITE PINE COUNTY THIS MORNING. FOR THIS UPDATE HAVE INCREASED **POPS** SOME OVER THE HIGHER TERRAIN OF FAR NORTHERN LINCOLN COUNTY THIS AFTERNOON. ALSO EXPECTING A SLIGHT CHANCE OF THUNDERSTORMS ALONG THE SIERRA CREST. WILL TAKE THIS OPPORTUNITY TO RAISE HIGHS FOR TODAY A DEGREE OR TWO. WILL TAKE A CLOSER LOOK AT THE **EXCESSIVE HEAT WATCH** WITH THE AFTERNOON PACKAGE.

&&

.AVIATION...FOR MCCARRAN...LIGHT WIND UNTIL AROUND NOON WHEN AN EASTERLY WIND AT LESS THAN 10 **KTS** DEVELOPS. A SOUTH-SOUTHWEST WIND WILL DEVELOP AROUND 23Z THIS AFTERNOON AT 8-12 **KTS** AND WILL CONTINUE THROUGH THE NIGHT. NO SIGNIFICANT CLOUDS.

FOR THE REST OF SOUTHERN NEVADA...NORTHWEST ARIZONA...AND SOUTHEAST CALIFORNIA...WINDS SHOULD FAVOR TYPICAL **DIURNAL** TRENDS FOR THE REMAINDER OF THE NIGHT THEN INCREASE THIS AFTERNOON AND EVENING WITH GUSTS 15-25 **KTS** ACROSS THE WESTERN MOJAVE DESERT. **CUMULUS** WILL AGAIN DEVELOP OVER THE TERRAIN OF INYO AND ESMERALDA COUNTIES FRIDAY AFTERNOON AND EARLY EVENING WITH A STRAY **TSRA** POSSIBLE ALONG THE CREST OR IN THE EASTERN SLOPES OF THE SOUTHERN SIERRA.

&&

.PREV DISCUSSION...  
232 AM PDT FRI JUN 6 2014

.SHORT TERM...FRIDAY THROUGH SUNDAY NIGHT.

THE MAIN IMPACT OVER THE NEXT FEW DAYS WILL BE THE HEAT ON SUNDAY. MODELS HAVE TRENDED EVER SO SLIGHTLY COOLER ON SUNDAY...BUT I HAVE MAINTAINED THE FORECAST NUMBERS AND THE EXCESSIVE **WATCH** FOR SUNDAY AND MONDAY. THE WEAK **UPPER LEVEL IMPULSE** WILL BE NEARING THE CALIFORNIA COAST THIS AFTERNOON AND SHOULD ENHANCE **CUMULUS** DEVELOPMENT AND PROVIDE AT LEAST A SLIGHT CHANCE OF SHOWERS OR THUNDERSTORMS OVER THE HIGHER TERRAIN OF THE SOUTHERN SIERRA. BY SATURDAY THE **IMPULSE** IS WEAKENING AND PUSHING EAST OF THE AREA AND SHOULD NOT HAVE ANY NOTABLE IMPACTS OTHER THAN TO LOWER THE TEMPERATURES A COUPLE OF DEGREES IN MOST LOCATIONS ON SATURDAY. BY SUNDAY THE **RIDGE** WILL BE DEVELOPING OVER THE AREA AND WILL PROVIDE THE HOTTEST DAY OF THE WEEKEND.

.LONG TERM...MONDAY THROUGH THURSDAY.

VERY HOT AND DRY CONDITIONS ARE EXPECTED TO LAST INTO EARLY NEXT WEEK. GUIDANCE CONTINUES TO SUGGEST HIGHS FLIRTING WITH OR EXCEEDING **EXCESSIVE HEAT** CRITERIA FOR AT LEAST SUNDAY AND MONDAY. A TRANSIENT **RIDGE** MOVING ACROSS THE AREA WILL BE PARTIALLY RESPONSIBLE FOR THIS SPIKE IN TEMPERATURES. FOR MONDAY...I DID NUDGE TEMPERATURES DOWN BY ABOUT A DEGREE ACROSS THE BOARD AS A WEAK WAVE IS NOW SHOWN TO MOVE IN SLIGHTLY FASTER THAN PREVIOUSLY ADVERTISED. THIS TRANSLATES TO A HIGH AT MCCARRAN OF 108...STILL ABOVE THE **EXCESSIVE HEAT** CRITERIA OF 107 FOR THIS PERIOD. THIS FORECAST CONTINUES TO FOLLOW THE **ECMWF MOS** GUIDANCE THAT TENDS TO PERFORM WELL IN THESE SCENARIOS. THE AFOREMENTIONED WEAK WAVE WILL DRIFT ACROSS THE REGION WITH LITTLE FANFARE TUESDAY INTO WEDNESDAY...BUT THIS SHOULD MARK THE BEGINNING OF A VERY SLOW COOLING TREND THAT WILL LAST THROUGH THE REMAINDER OF THE WEEK.

OUTSIDE OF THE VERY HOT CONDITIONS LITTLE IN THE WAY OF SENSIBLE WEATHER IS EXPECTED. AFTERNOON BREEZES ARE LIKELY BUT THEY SHOULD REMAIN BELOW CONCERNING LEVELS. THERE WILL BE SOME LOW-END **INSTABILITY** OVER PORTIONS OF THE SIERRA AND CENTRAL NEVADA AT TIMES BUT AT THIS POINT HAVE ONLY INCLUDED A SLIGHT CHANCE ONLY ON MONDAY. OTHERWISE HAVE LEFT ONLY GHOST **POPS** AND SLIGHTLY HIGHER CLOUD COVERAGE ACROSS THE SIERRA EAST INTO CENTRAL NEVADA AT TIMES AS **MOISTURE** LOOKS LIMITED AT BEST.

&&

.VEF WATCHES/WARNINGS/ADVISORIES...

NV...**EXCESSIVE HEAT WATCH** FROM SUNDAY MORNING THROUGH MONDAY EVENING FOR NVZ016-017-020>022.

AZ...**EXCESSIVE HEAT WATCH** FROM SUNDAY MORNING THROUGH MONDAY EVENING FOR AZZ002-003-036.

CA...**EXCESSIVE HEAT WATCH** FROM SUNDAY MORNING THROUGH MONDAY EVENING FOR CAZ522>527.

&&

UPDATE...PIERCE  
CZYZYK/WOLCOTT

FXUS65 KVEF 071512  
AFDVEF

#### **AREA FORECAST DISCUSSION**

NATIONAL WEATHER SERVICE LAS VEGAS NV

812 AM PDT **SAT JUN 7 2014**

.SYNOPSIS...TEMPERATURES WILL TREND UPWARD THE NEXT COUPLE OF DAYS WITH THE PEAK EXPECTED ON MONDAY BEFORE GRADUALLY SUBSIDING BY MID WEEK. WHILE **ISOLATED** THUNDERSTORMS ARE POSSIBLE IN THE AFTERNOON AND EVENING HOURS THROUGH MONDAY NEAR THE **CREST** AND ALONG THE EASTERN SLOPES OF THE SIERRA THE REST OF THE REGION SHOULD REMAIN DRY. TYPICAL GUSTY AFTERNOON AND EVENING WINDS CAN BE EXPECTED.

&&

.UPDATE...QUIET WEATHER THIS MORNING. NO UPDATE PLANNED.  
&&

.PREV DISCUSSION...  
300 AM PDT SAT JUN 7 2014

.SHORT TERM...TODAY THROUGH MONDAY NIGHT.

THE BAND OF MID LEVEL CLOUDS HAS BEEN SLOWLY DIMINISHING OVER THE PAST FEW HOURS ACROSS THE NORTHERN FRINGES OF THE FORECAST AREA. THE WEAK UPPER LEVEL DISTURBANCE HAS PUSHED INTO SOUTHEAST CALIFORNIA AND WILL CONTINUE TO PROGRESS TO THE EAST AND INTO ARIZONA DURING THE DAY TODAY. THIS WILL HAVE A MINOR IMPACT ON TEMPS LOWERING THEM BY A DEGREE OR TWO IN MOST LOCATIONS TODAY IN COMPARISON TO TOMORROW. LOW GRADE MOISTURE AND INSTABILITY WILL CONTINUE THE THREAT OF ISOLATED THUNDERSTORMS OVER THE EASTERN SIERRA AND IN LINCOLN COUNTY THROUGH SUNDAY. MODEL TRENDS HAVE CONTINUED AND HAVE DROPPED THE EXCESSIVE HEAT PRODUCT FOR SUNDAY. I HAVE UPGRADED THE EXCESSIVE HEAT WATCH TO A WARNING FOR MONDAY. THE OVERALL PATTERN HAS SLOWED WITH THE RIDGE BUILDING IN A LITTLE LATER ON SUNDAY AND CENTERED ACROSS THE FORECAST AREA ON MONDAY.

.LONG TERM...TUESDAY THROUGH FRIDAY.

NO MAJOR CHANGES TO THE LONG TERM FORECAST THIS MORNING. A WEAK WAVE WILL DRIFT ACROSS THE REGION WITH LITTLE FANFARE TUESDAY INTO WEDNESDAY. THIS SHOULD MARK THE BEGINNING OF A VERY SLOW COOLING TREND THAT WILL LAST THROUGH THE REMAINDER OF THE WEEK.

OUTSIDE OF ABOVE NORMAL TEMPERATURES...LITTLE IN THE WAY OF SENSIBLE WEATHER IS EXPECTED. AFTERNOON BREEZES ARE LIKELY BUT THEY SHOULD REMAIN BELOW CONCERNING LEVELS. THERE WILL BE SOME LOW-END INSTABILITY OVER PORTIONS OF THE SIERRA AND CENTRAL NEVADA AT TIMES BUT AT THIS POINT HAVE NO SHOWERS MENTIONED THROUGH THE LONG TERM PERIOD.

.VEF WATCHES/WARNINGS/ADVISORIES...  
NV...EXCESSIVE HEAT WARNING FROM MONDAY MORNING THROUGH MONDAY EVENING FOR NVZ016-017-020>022.  
AZ...EXCESSIVE HEAT WARNING FROM MONDAY MORNING THROUGH MONDAY EVENING FOR AZZ002-003-036.  
CA...EXCESSIVE HEAT WARNING FROM MONDAY MORNING THROUGH MONDAY EVENING FOR CAZ522>527.

&&