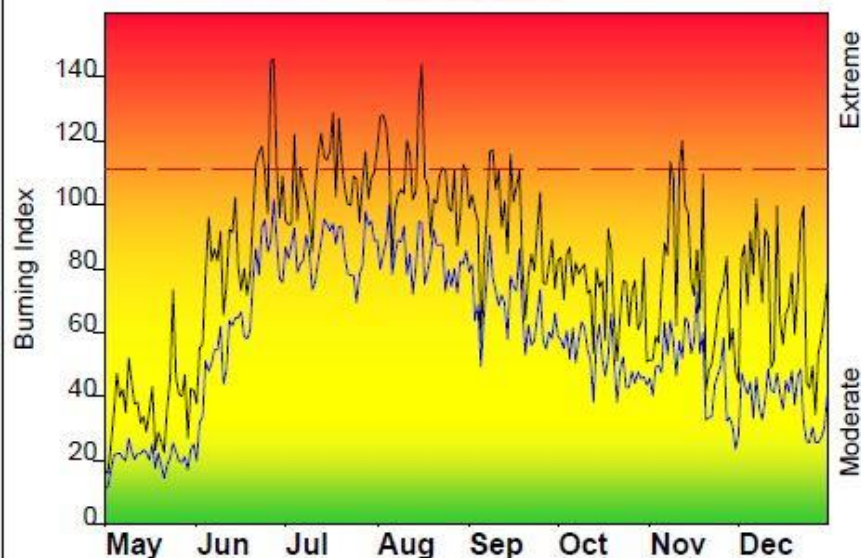


## FIRE DANGER -- Antelope Valley

Maximum, Average, and 97th Percentile, based on 5 years data



## Fire Danger Area:

- Antelope Valley Zone
- BN 11 & 17
- AV WX Stations
- \* Meets NWCG Wx Station Standards



## Fire Danger Interpretation:

- EXTREME** -- Use extreme caution
- High** -- Watch for change
- Moderate** -- Lower Potential, but always be aware

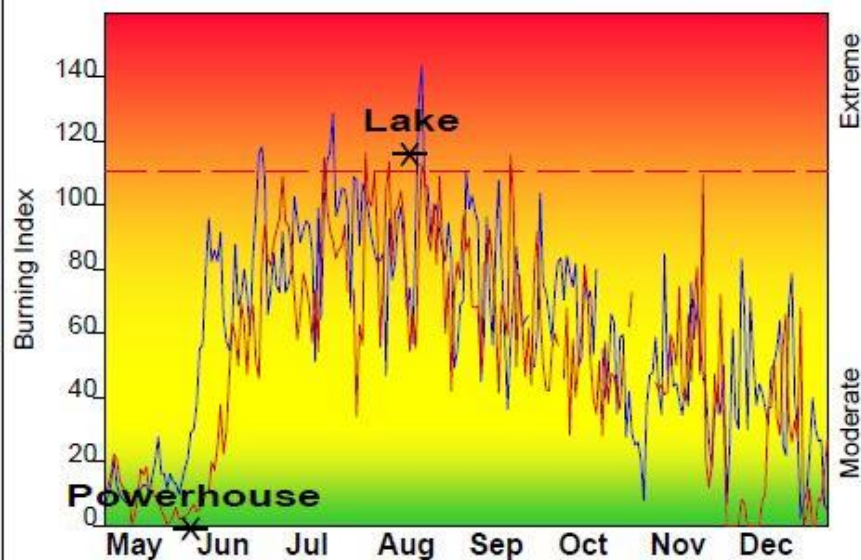
Maximum -- Highest Burning Index by day for 2016 - 2021

Average -- shows peak fire season over 5 years (1201 observations)

97th Percentile -- 3% of the 1201 days from 2016 - 2021 had an Burning Index above 111

**Local Thresholds - Watch out:** Combinations of any of these factors can greatly increase fire behavior:  
**20' Wind Speed** over 10 mph, **RH** less than 15%,  
**Temperature** over 90, **Burning Index** over 97

## Years to Remember: 2016 2019



Fuel Model: V - Grass (2016)

## Remember what Fire Danger tells you:

- ✓ Burning Index gives day-to-day fluctuations calculated from 2 pm temperature, humidity, wind, daily temperature & rh ranges, and precip duration.
- ✓ Wind is part of BI calculation.
- ✓ Watch local conditions and variations across the landscape -- Fuel, Weather, Topography.
- ✓ Listen to weather forecasts -- especially WIND.

## Past Experience:

Wind Driven Fires Can Produce:  
 Rates of Spread > 120 ch/hr  
 Spotting up to .5-1 Mile Ahead of the fire front  
 Eye Level Wind Speed > 7 MPH  
 Live Fuel Moistures < 75%  
 Fine Fuel Moistures < 5%  
 Active Night Burning Conditions with RH < 30%

Responsible Agency: Los Angeles County Fire  
 FF+5.0 build 20191211 07/01/2022-17:37 (C:\Users\Garrett Ha...\2022 master

Design by NWCG Fire Danger Working Team



# Antelope Valley Zone Pocket Card 2022

<b>BI</b>	<b>97</b>	<b>111+</b>	<b>Extreme Intensity Fire Behavior: (Wind and or Instability)</b>
<b>PERCENTILE</b>	<b>90% to 100%</b>		<b>Associated with Fire Weather Watch and Red Flag Conditions.</b>
<p><b>Fire Behavior:</b> Rapid fire growth should be anticipated with high rates of spread. Significant spotting up to 1 mile with an exponentially expanding fire environment. Flame Length 25+ feet..</p> <p><b>Key Indicators:</b> Temps &gt; 80 degrees; Wind &gt;15 – 35+ mph; RH &lt; 15%; 10 HR DFM ≤3; LFM 80% -50%</p> <p><i>Unstable Conditions = Abnormal Hot and Dry with little to no wind with critically dry live and dead fuels. (July-September)</i></p> <p><i>Plume dominated Fire Conditions. LAL-2 and 6 where fire transitions to heavier fuel beds.</i></p> <p><b>Targeted Months:</b> May thru October.</p> <p><b>Engagement Tactical Options:</b> Heel and Flank Suppression. Identify Structure Defense and Evacuations.</p> <p><b>Fire Size Class:</b> 5000 plus acre potential within the first 4 hours.</p>			

<b>BI</b>	<b>70</b>	<b>96</b>	<b>Moderate Intensity Fire Behavior: Associated with periods of hot, dry weather, light to moderate winds and spotting ½ -1 mile.</b>
<p><b>Fire Behavior:</b> Fires are mainly wind and topography driven with Westerly wind alignment features in the early to late Summer. Instability features may exist with fuels dominated fires leading to a plume dominated fire environment where fire transitions into heavier fuel beds. (Heads up on days with LAL-2 and 6).</p> <p><b>Key Indicators:</b> Temps 85- 110 degrees; Wind 5- 15 mph; RH: 10%- 20%.. 10 HR DFM &gt;3-7%.. LFM 80% to 60%</p> <p><b>Targeted Months:</b> July thru January</p> <p><b>Engagement Tactical Options:</b> Heel and Flank Suppression. Identify Structure Defense and Evacuations.</p> <p><b>Fire Size Class:</b> 250 - 5000 plus acres.</p>			

<b>BI</b>	<b>20</b>	<b>69</b>	<b>Low Fire Behavior Intensity: Routine weather for the area. Spotting up to 1/4 mile.</b>
<p><b>Fire Behavior:</b> Fires are mainly topography dominated with slow to moderate rates of spread. Alignment of forces must be identified on routine weather days. Slope, Wind and Solar pre heating.</p> <p><b>Key Indicators:</b> Temps &gt; 70 - 90 degrees; Wind 5 - 20 mph; RH 25%- 40% ; 10 HR DFM 5-9% ; LFM 120% -60%</p> <p><b>Targeted Months:</b> May thru January</p> <p><b>Engagement Tactical Options:</b> Heel and Flank Suppression. Fires routinely held to topographic and road features with suppression activity. Identify Structure Defense needs.</p> <p><b>Fire Size Class:</b> 5 - 250 plus acres.</p>			