

THE POCKET CARD

THE SUPPORT FOR FIRE DANGER AWARENESS.

NATIONAL FIRE DANGER RATING SYSTEM VERSION 4

NFDRS NEW VERSION 4 ROLL OUT





THE BACKGROUND

- THE FIRE DANGER POCKET CARD IS A TOOL BASED ON THE NATIONAL FIRE DANGER RATING SYSTEM (NFDRS) <u>UPDATED VERSION 4 RELEASE</u>
- DEVELOP AN AWARENESS OF THE CURRENT FIRE SITUATION THAT YOU ARE ABOUT TO STEP INTO.
- THE OBJECTIVE OF THE NFDRS IS TO PROVIDE A MEASUREMENT OF ENVIRONMENTAL CONDITIONS THAT LEAD TO LARGE FIRE GROWTH POTENTIAL
- VALUES HAVE CHANGED (INCREASED) BUT RISK REMAINS THE SAME.

THE NEW VALUE AND THE OLD

NFDRS VERSION 3 VS NFDRS VERSION 4

- LA BASIN = OLD 97^{TH} = 151 AND THE NEW 97^{TH} = 206
- SANTA MONICA MOUNTAINS = OLD 97^{TH} = 156 AND THE NEW 97^{TH} = 242
- SANTA CLARITA VALLEY = OLD 97TH = 153 AND THE NEW 97TH = 323
- HIGH COUNTRY = OLD 97TH = 226 AND THE NEW 97TH = 327
- ANTELOPE VALLEY = OLD 97TH = 124 AND THE NEW 97TH = 111
- CATALINA ISLAND = OLD 97^{TH} = 82 AND THE NEW 97^{TH} = 177

New Burning Index Values "Roll Out 2022" NFDRS Version 4

Forecast Zone NFDRS Version 3 vs Version 4 97 th Percentiles	Old BI Value	New BI Value	LAC Augmented Staffing	
	NFDRS	NFDRS		
LA Basin	<u>из</u> 151	<u>V4</u> 206	206	
Santa Monica Mountains	156	242	192 (90 th)	
Santa Clarita Valley	153	323	323	
High Country	226	327	327	
Antelope Valley	124	111	111	
Catalina Island	82	177	177	
Gray Book Staffing based on the 97 th Percentile				
Malibu Hills RAWS	152	250		
Saugus RAWS	166	357		



FIRE DANGER RATING

IS NOT THE BURNING INDEX

- THIS IS A DECISION <u>AID</u> THAT DESCRIBES THE FACTORS - FUELS, WEATHER AND TOPOGRAPHY -WHICH AFFECT THE INITIATION, SPREAD AND DIFFICULTY OF CONTROL OF WILDFIRES ON AN AREA.
- THIS IS AN INITIAL ATTACK FIRE SITUATIONAL AWARENESS TOOL.



LOW ...MODERATE....HIGH.....VERY HIGH.....EXTREME

BUT WHAT WILL THE FIRE DANGER POCKET CARD DO FOR ME?

- THE FIRE DANGER POCKET CARD IS USEFUL IN IDENTIFING THE POTENTIAL FOR A LARGE FIRE GROWTH DAY
- THE FIRE DANGER POCKET CARD GIVES FIREFIGHTERS A GENERAL INDICATOR
 OF THE POTENTIAL FOR THE FUELS AND WEATHER TO SUPPORT FIRE BEHAVIOR
 AND THE DIFFICULTY OF CONTROL.





• THE FIRE DANGER POCKET CARD WILL **NOT** PROVIDE SITE SPECIFIC FIRE BEHAVIOR FORECASTS.

HOW WILL WE USE THE FIRE DANGER POCKET CARDS?

- COMPARE CURRENT AND PREDICTED LOCAL FIRE DANGER TO HISTORICAL LOCAL FIRE DANGER IN ORDER TO ENHANCE SITUATIONAL AWARENESS.
- USE THIS INFORMATION TO BE AWARE OF INDICATORS THAT FORECAST THE POTENTIAL FOR AGGRESSIVE FIRE BEHAVIOR.
- ENHANCE OUR LOCAL AWARENESS TOWARD LARGE FIRE GROWTH POTENTIAL.



THE DAILY BURN INDEX

- THE BI IS DISPLAYED VIA MDC AND EMAIL IN THE AFTERNOON
- POSTED ON THE INTRA NET MAIN PAGE BY 0800 AND IS LOCATED ON THE MAIN PAGE TITLED DAILY FIRE DANGER REPORT.
- IT IS FOUND ON YOUR FIRESYNC OPS APP.
- IT'S FOUND ON THE FIREONE LINK WITH THE NATIONAL WEATHER SERVICE HTTPS://WWW.WEATHER.GOV/LOX/FIRE
- INFORMATION WILL INCLUDE THE BURN INDEX FOR ALL 6 FORECAST ZONES.
- THE POCKET CARDS SHOULD BE REFERENCED BY PERSONNEL AT THE MORNING LINE UP OR PROMPTLY AFTER EMERGENCY ACTIVITIES.
- CAPTAINS AND CREW FORMAN SHALL ENSURE DAILY SITUATIONAL AWARENESS TO HIS OR HER ASSIGNED PERSONNEL REFERENCING THE DAILY BI'S AND POCKET CARD INFORMATION.
- CHIEF OFFICERS SHALL REVIEW FOR BUILDING SITUATIONAL AWARENESS





FIRE DANGER POCKET CARD

- A DESCRIPTION IS IN THE INCIDENT RESPONSE POCKET GUIDE (IRPG)
 2022 EDITION FIRE ENVIRONMENT ORANGE SECTION PAGE 39.
- THE BURNING INDEX RELATES TO CONSTANT ENVIRONMENTAL AND FUEL FACTORS <u>NOT</u> VARIABLES ON THE FIRE GROUND.

BURNING INDEX (BI)

- A DESCRIPTION IS IN THE INCIDENT RESPONSE POCKET GUIDE (IRPG) 2022 EDITION FIRE ENVIRONMENT ORANGE SECTION PAGE 39.
- HOWEVER THE BURNING INDEX RELATES TO CONSTANT ENVIRONMENTAL AND FUEL FACTORS NOT VARIABLES ON THE FIRE GROUND.
- THE BURNING INDEX SHOULD BE USED AS A FIRE DANGER ELEMENT AND NOT AS A FIRE BEHAVIOR TACTICAL DECISION TOOL.
- BASING YOUR TACTICS ON THE REPRESENTATION OF DIVIDING THE BURNING INDEX BY 10% WILL MOST LIKELY COMPROMISE SAFETY AND IS NOT ADVISED.



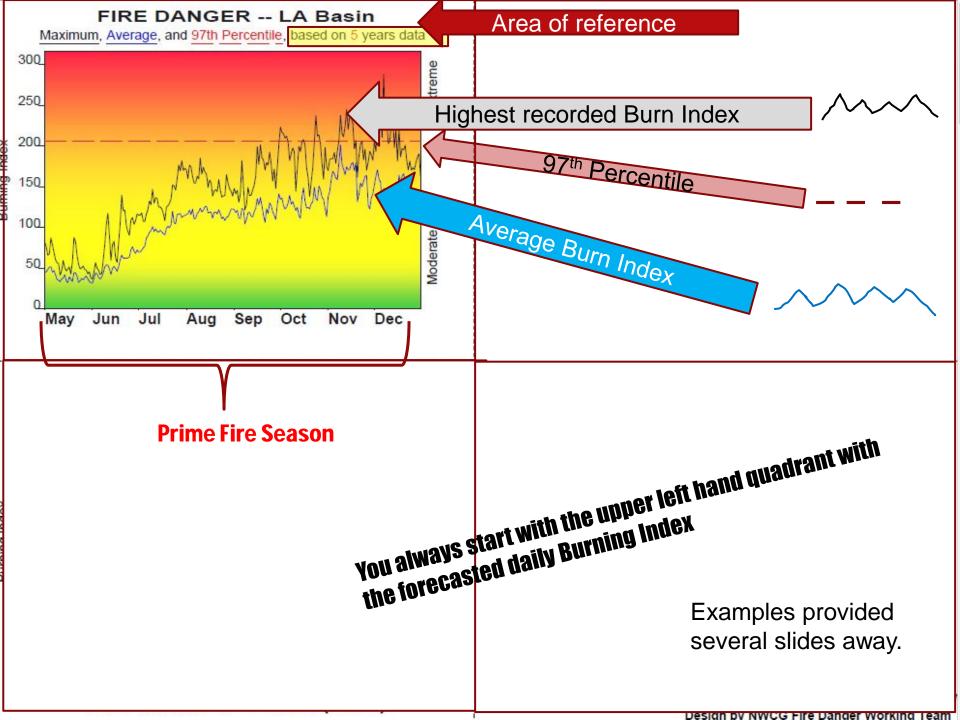


LET'S TAKE A LOOK

THE NEXT SERIES OF SLIDES WILL WALK YOU THROUGH

There are 4 quadrants that have valuable information to build your situational awareness





Area of reference

Average Burn Index

Fire Danger Area:

- LA Basin
- Whitter, San Rafael Hills
- Tonner Cyn, Claremont
 - * 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 (1202 observations)

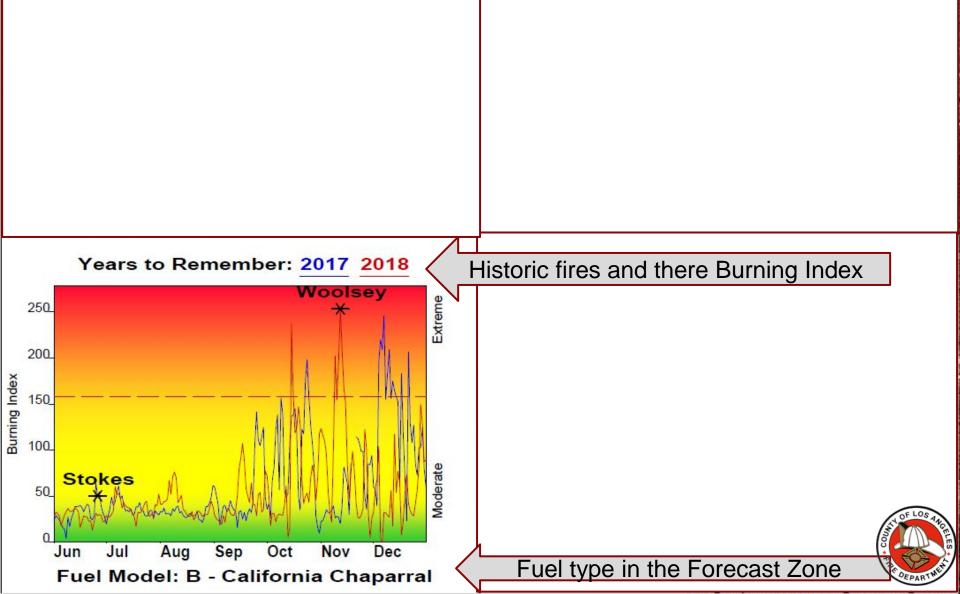
97th Percentile -- 3% of the 1202 days from 2016 - 2021
had an Burning Index above 206

Local Thresholds - Watch out: Combinations of any of these factors can greatly increase fire behavior: 20' Wind Speed over 15 mph, RH less than 20%, Temperature over 85, Burning Index over 177

Local Thresholds are:
Fire Danger factors that influence
aggressive fire behavior



o7th Percentile



This Lower Right Quadrant gives you the indicators that promote large fire growth and aggressive fire behavior

Factors that support large fire Growth

Predictable and forecasted

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:

Rates of Spread > 160 ch/hr Spotting up to 0.5-1 Mile Ahead of Fire Front Eye Level Wind Speed > 7 MPH Live Fuel Moistures < 75%

Fine Fuel Moistures < 5%

Active Night Burning Conditions with RH < 30%

Non- Wind Driven Fires: Look for variation on the fire ground Identify the alignment of wind, slope, and solar pre-heating

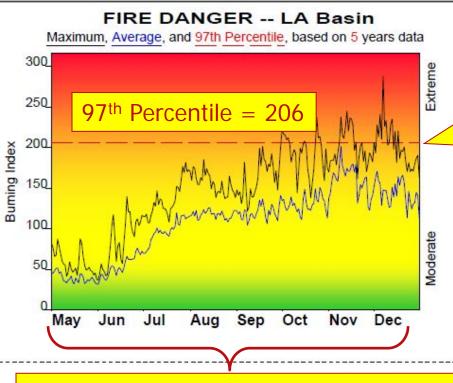
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LET'S PUT IT ALL TOGETHER

THE NEXT SERIES OF SLIDES WILL WALK YOU THROUGH HOW TO USE THE POCKET CARDS.





Fire Danger Area:

- LA Basin
- Whitter, San Rafael Hills
- Tonner Cyn, Claremont * Meets NWCG Wx Station Standards



Fire P er Interpretation:

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High -- Watch for change

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20' Wind Speed over 15 mph, RH less than 20% Temperature over 85, Burning Index over 177

Only 3% of the days between May 1 and December 31 Had a Burning index over 206. (Prime Fire Season)

s day-to-day fluctuations pm temperature, humidity, wind, & rh ranges, and precip duration. alculation.

what Fire Danger tells you:

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the landscape -- Fuel, Weather, Topography. Listen to weather forecasts -- especially WIND.

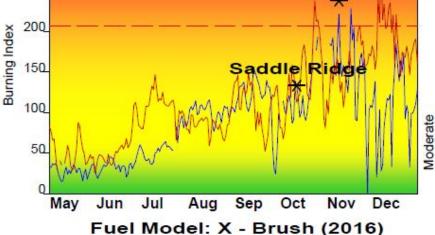
Past Experience:

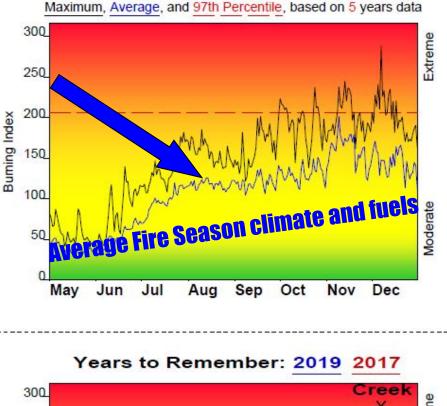
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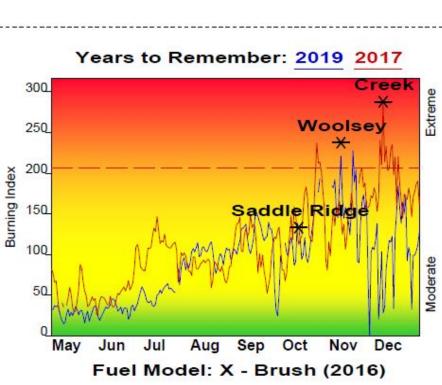
Active Night Burning Conditions with RH < 30% Non- Wind Driven Fires: Look for variation on the fire ground Identify the alignment of wind, slope, and solar pre-heating

Responsible Agency: Los Angeles County Fire FF+5.0 build 20191211 07/01/2022-17:42 (C:\Users\Garrett Ha...\2022 master Design by NWCG Fire Danger Working Team





FIRE DANGER -- LA Basin



Fire Danger Area:

- LA Basin
- Whitter, San Rafael Hills
- Tonner Cyn, Claremont
 * 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

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Local Thresholds - Watch out: Combinations of any of these factors can greatly increase fire behavior: 20' Wind Speed over 15 mph, RH less than 20%, Temperature over 85, Burning Index over 177

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.

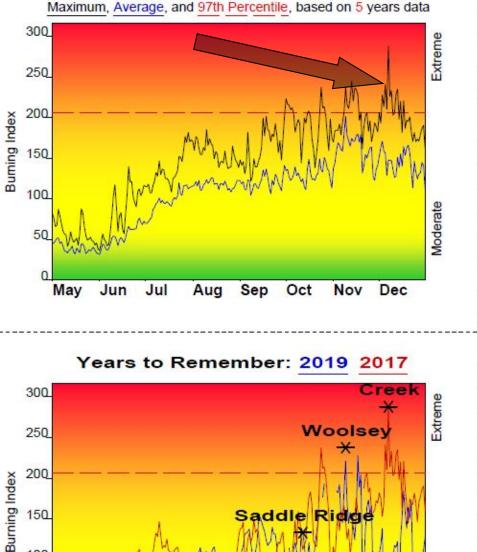
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Responsible Agency: Los Angeles County Fire FF+5.0 build 20191211 07/01/2022-17:42 (C:\Users\Garrett Ha...\2022 master



Aug

Sep Oct

Fuel Model: X - Brush (2016)

Nov

Dec

100

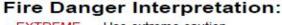
50

May

FIRE DANGER -- LA Basin

Fire Danger Area:

- LA Basin
- Whitter, San Rafael Hills Tonner Cyn, Claremont
 - * Meets NWCG Wx Station Standards



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Wind is part of BI calculation.

Watch local conditions and variations across the landscape -- Fuel, Weather, Topography. ↓Listen to weather forecasts -- especially WIND.

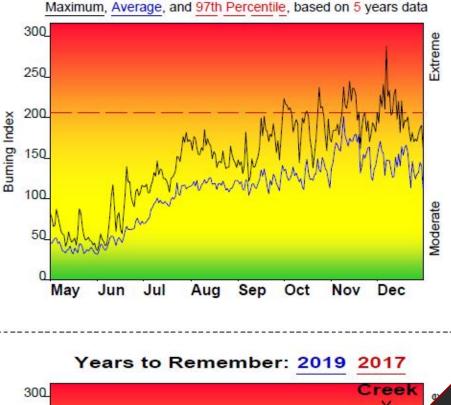
Past Experience:

Moderate

Rates of Spread > 160 ch/hr Spotting up to 0.5-1 Mile Ahead of Fire Front Eye Level Wind Speed > 7 MPH Live Fuel Moistures < 75% Fine Fuel Moistures < 5%

Active Night Burning Conditions with RH < 30% Non- Wind Driven Fires: Look for variation on the fire ground Identify the alignment of wind, slope, and solar pre-heating

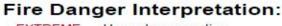
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FIRE DANGER -- LA Basin

Fire Danger Area:

- LA Basin
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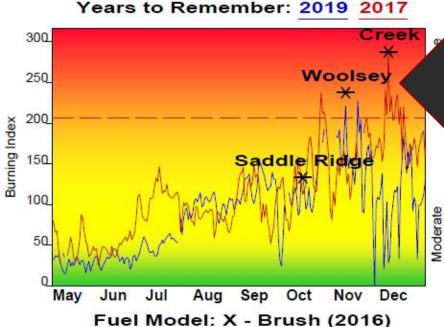
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Remember what Fire Danger tells you: Burning Index gives day-to-day fluctuations

calculated from 2 pm temperature, humidity, wind, daily temperature & rh ranges, and precip duration.

Historic Fires with there Burning Index

Past Experience:

Rates of Spread > 160 ch/hr Spotting up to 0.5-1 Mile Ahead of Fire Front Eye Level Wind Speed > 7 MPH

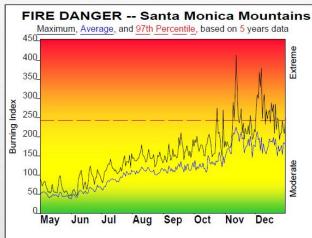
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Active Night Burning Conditions with RH < 30% Non- Wind Driven Fires: Look for variation on the fire ground Identify the alignment of wind, slope, and solar pre-heating

Responsible Agency: Los Angeles County Fire

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LET'S WALK THROUGH THE USE OF THE POCKET CARD



Fire Danger Area:

- Santa Monica Mountains
- Inland and Costal Areas * Meets NWCG Wx Station Standards

Fire Danger Interpretation:

EXTREME -- Use extreme caution

High -- Watch for change

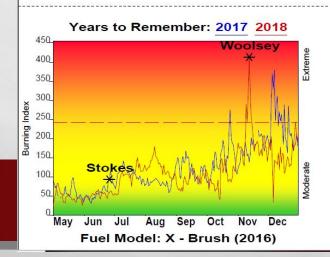
Moderate -- Lower Potential, but always be aware

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

Average -- shows peak fire season over 5 years (1203 observations) 97th Percentile -- 3% of the 1203 days from 2016 - 2021 had an Burning Index above 242

Local Thresholds - Watch out: Combinations

of any of these factors can greatly increase fire behavior: 20' Wind Speed over 30 mph, RH less than 20%, Temperature over 80, Burning Index over 192



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 > 160 ch/hr Spotting up to 1-3 Mile Ahead of the fire front Eve Level Wind Speed > 15 MPH

Live Fuel Moistures < 75%

Fine Fuel Moistures < 5% Active Night Burning Conditions with RH < 30%

Non-Wind Driven Fires: Mature fuel beds 20+ years of growth Identify the alignment of wind, slope and solar pre heating

Responsible Agency: Los Angeles County Fire FF+5.0 build 20191211 07/04/2022-16:28 (C:\Users\Garrett Ha...\2022 master

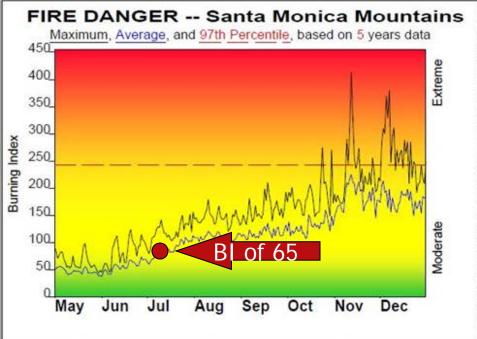


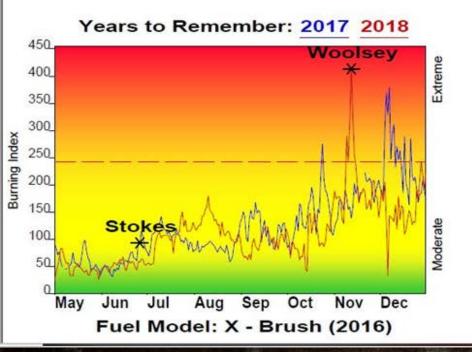
EXAMPLE #1 TODAY IS JULY 3, 2022

- THE FORECASTED BURNING INDEX FOR THE SANTA MONICA MOUNTAINS IS 65
- WHAT DOES THIS MEAN FOR YOU TO BUILD YOUR SITUATIONAL AWARENESS
- WHAT IS THE POTENTIAL FOR A LARGE FIRE
- ** REMEMBER THE POCKET CARD TARGETS THE POTENTIAL FOR LARGE FIRE GROWTH **NOT** INITIAL ATTACK PROBABILITIES.
- REMEMBER SMOKEY BEAR IDENTIFIES THE POTENTIAL FOR INITIAL ATTACK









Fire Danger Area:

- Santa Monica Mountains
- BN 5
- Inland and Costal Areas
 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 (1203 observations) 97th Percentile -- 3% of the 1203 days from 2016 - 2021 had an Burning Index above 242

Local Thresholds - Watch out: Combinations of any of these factors can greatly increase fire behavior: 20' Wind Speed over 30 mph, RH less than 20%, Temperature over 80, Burning Index over 192

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.

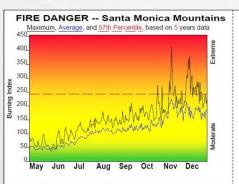
Past Experience:

Wind Driven Fires Can Produce:
Rates of Spread > 160 ch/hr
Spotting up to 1-3 Mile Ahead of the fire front
Eye Level Wind Speed > 15 MPH
Live Fuel Moistures < 75%
Fine Fuel Moistures < 5%
Active Night Burning Conditions with RH < 30%
Non-Wind Driven Fires: Mature fuel beds 20+ years of growth
Identify the alignment of wind, slope and solar pre heating

Responsible Agency: Los Angeles County Fire FF+5.0 build 20191211 07/04/2022-16:28 (C:\Users\Garrett Ha...\2022 master

YOUR SITUATIONAL AWARENESS SHOULD BE WITH A BI OF 65: THAT THE PROBABILITY OF LARGE FIRE GROWTH IS MINIMAL. THE BURNING INDEX IS AT AVERAGE FOR TODAY LOOK AT THE INTERPRETIVE CARD

65



Fire Danger Area:

- Santa Monica Mountains
- BN 5
- Inland and Costal Areas
 Meets NWCG Wx Station Standards

Fire Danger Interpretation:

EXTREME -- Use extreme caution

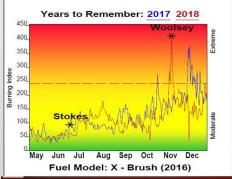
Moderate -- Lower Potential, but always be aware

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

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Local Thresholds - Watch out: Combinations

of any of these factors can greatly increase fire behavior: 20' Wind Speed over 30 mph, RH less than 20%, Temperature over 80, Burning Index over 192



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 Tonograph

the landscape -- Fuel, Weather, Topography. Listen to weather forecasts -- especially WIND.

Past Experience:

Wind Driven Fires Can Produce: Rates of Spread > 160 ch/hr Spotting up to 1-3 Mile Ahead of the fire front Eye Level Wind Speed > 15 MPH Live Fuel Moistures < 75% Fine Fuel Moistures < 5%

Active Night Burning Conditions with RH < 30% Non-Wind Driven Fires: Mature fuel beds 20+ years of growth Identify the alignment of wind, slope and solar pre heating

Responsible Agency: Los Angeles County Fire FF+5.0 build 20191211 07/04/2022-16:28 (C:\Users\Garrett Ha...\2022 master

Design by NWCG Fire Danger Working Team

Santa Monica Mountains Forecast Zone Pocket Card 2022

BI	192		Extreme Intensity Fire Behavior:	200.0	
PERCENTILE	90% to	100%	Associated with Fire Weather Watch and Red Flag Col	ditions.	
Fire Behavior: R	Rapid fire gr	owth shou	uld be anticipated with high rates of spread.		
Significant spotting up to 3 miles with an exponentially expanding fire environment. Flame Length 10+ feet					
Key Indicators: Temps > 80 degrees; Wind >15 - 35 mph; RH < 15%; 10HR DFM ≤ 3%LFM 8 % -50%					
Targeted Months: September thru December					
Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.					
Fire Size Class: 8000 plus acre potential within the first 4 hours.					

BI	150	191	Moderate Intensity Fire Behavior: Associated with periods of hot,
			dry weather, light to moderate winds and spotting ½ -1 mile.

Fire Behavior: Fires are mainly topography driven with Westerly wind alignment features in the summer. Trending into Fire Weather Watch and light offshore winds in early Fall and Winter with low dead and live fuels will produce an aggressive fire.

Key Indicators: Temps 75-100 degrees; Wind 5-15 mph; RH: 15%-30%... 10HR DFM >5-7%.. LFM 80% to 60% Targeted Months: July thru December (October thru December a BI of 175 or greater may be trending toward a Fire Weather Watch) Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations. Fire Size Class: 250 - 1500 plus acres.

BI 50 149 Low Fire Behavior Intensity: Routine weather for the area. Spotting up to ½ mile

Fire Behavior: 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.

Key Indicators: Temps > 70 - 90 degrees; Wind 5 - 20 mph; RH < 25% - 50%; 10 HR DFM 5-12%; LFM 120% -60% Targeted Months: May thru December.

Engagement Tactical Options: Heel and Flank Suppression. Fires routinely held to topographic features with

suppression activity. Identify Structure Defense needs.

Fire Size Class: 5 - 250 plus acres.

Revision Date: 6//1/2022 By: LAC Fire Behavior Team: G.Hazleton LTAN / D.Smith FBAN



Santa Monica Mountains Forecast Zone Pocket Card 2022

BI	192 242+	Extreme Intensity Fire Behavior:
PERCENTILE	90% to 100%	Associated with Fire Weather Watch and Red Flag Conditions.

Fire Behavior: Rapid fire growth should be anticipated with high rates of spread.

Significant spotting up to 3 miles with an exponentially expanding fire environment. Flame Length 50+ feet...

Key Indicators: Temps > 80 degrees; Wind > 15 - 35 mph; RH < 15%; 10HR DFM ≤ 3%...LFM 80% -50%

Targeted Months: September thru December

Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.

Fire Size Class: 8000 plus acre potential within the first 4 hours.

BI	150	191	Moderate Intensity Fire Behavior: Associated with periods of hot,
			dry weather, light to moderate winds and spotting 1/2 -1 mile.

Fire Behavior: Fires are mainly topography driven with Westerly wind alignment features in the summer. Trending into a Fire Weather Watch and light offshore winds in early Fall and Winter with low dead and live fuels will produce an aggressive fire.

Key Indicators: Temps 75- 100 degrees; Wind 5- 15 mph; RH: 15%- 30%.. 10HR DFM >5-7%.. LFM 80% to 60%

Targeted Months: July thru December (October thru December a BI of 175 or greater may be trending toward a Fire Weather Watch)

Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.

Fire Size Class: 250 - 1500 plus acres.

BI	50	Low Fire Behavior Intensity: Routine weather for the area.
		Spotting up to ½ mile

Fire Behavior: 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.

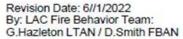
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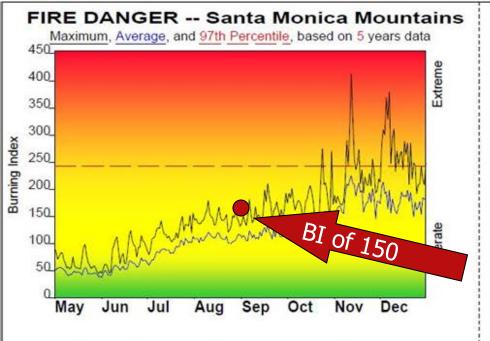
Fire Size Class: 5 - 250 plus acres.





EXAMPLE #2 TODAY IS AUGUST 18, 2022

- THE FORECASTED BURNING INDEX FOR THE SANTA MONICA MOUNTAINS IS 150
- WHAT DOES THIS MEAN FOR YOU TO BUILD YOUR SITUATIONAL AWARENESS
- WHAT IS THE POTENTIAL FOR A LARGE FIRE
- ** REMEMBER THE POCKET CARD TARGETS THE POTENTIAL FOR LARGE FIRE GROWTH NOT INITIAL ATTACK PROBABILITIES



Fire Danger Area:

- Santa Monica Mountains
- BN 5
- Inland and Costal Areas
 Meets NWCG Wx Station Standards



Fire Danger Interpretation:

EXTREME -- Use extreme caution
High -- Watch for change

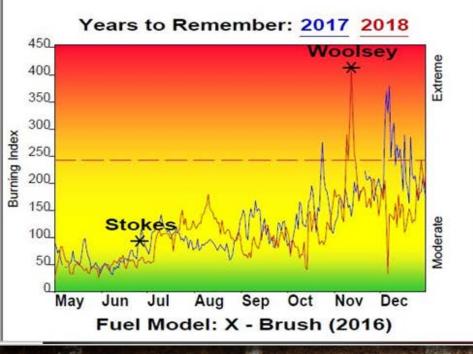
Moderate -- Lower Potential, but always be aware

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

Average -- shows peak fire season over 5 years (1203 observations)

97th Percentile -- 3% of the 1203 days from 2016 - 2021 had an Burning Index above 242

Local Thresholds - Watch out: Combinations of any of these factors can greatly increase fire behavior: 20' Wind Speed over 30 mph, RH less than 20%, Temperature over 80, Burning Index over 192



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 > 160 ch/hr
Spotting up to 1-3 Mile Ahead of the fire front
Eye Level Wind Speed > 15 MPH
Live Fuel Moistures < 75%
Fine Fuel Moistures < 5%
Active Night Burning Conditions with RH < 30%
Non-Wind Driven Fires: Mature fuel beds 20+ years of growth
Identify the alignment of wind, slope and solar pre heating

Responsible Agency: Los Angeles County Fire FF+5.0 build 20191211 07/04/2022-16:28 (C:\Users\Garrett Ha...\2022 master

Santa Monica Mountains Forecast Zone Pocket Card 2022

BI 192 242+ Extreme Intensity Fire Behavior:
PERCENTILE 90% to 100% Associated with Fire Weather Watch and Red Flag Conditions.

Fire Behavior: Rapid fire growth should be anticipated with high rates of spread.

Significant spotting up to 3 miles with an exponentially expanding fire environment. Flame Length 50+ feet...

Key Indicators: Temps > 80 degrees; Wind >15 - 35 mph; RH < 15%; 10HR DFM ≤ 3%...LFM 80% -50%

Targeted Months: September thru December

Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.

Fire Size Class: 8000 plus acre potential within the first 4 hours.

BI 150 191 Moderate Intensity Fire Behavior: Associated with periods of hot, dry weather, light to moderate winds and spotting ½ -1 mile.

Fire Behavior: Fires are mainly topography driven with Westerly wind alignment features in the summer. Trending into a Fire Weather Watch and light offshore winds in early Fall and Winter with low dead and live fuels will produce an aggressive fire.

Key Indicators: Temps 75- 100 degrees; Wind 5- 15 mph; RH: 15%- 30%.. 10HR DFM >5-7%.. LFM 80% to 60%

Targeted Months: July thru December (October thru December a BI of 175 or greater may be trending toward a Fire Weather Watch)

Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.

Fire Size Class: 250 - 1500 plus acres.

BI	50	149	Low Fire Behavior Intensity: Routine weather for the area.
			Spotting up to ½ mile

Fire Behavior: 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.

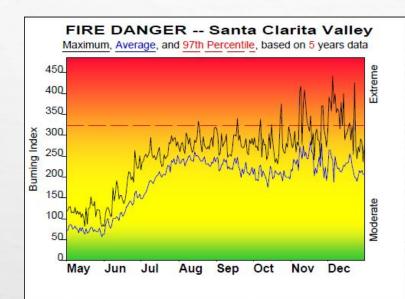
Key Indicators: Temps > 70 - 90 degrees; Wind 5 - 20 mph; RH < 25% - 50%; 10 HR DFM 5-12%; LFM 120% -60%

Targeted Months: May thru December.

Engagement Tactical Options: Heel and Flank Suppression. Fires routinely held to topographic features with suppression activity. Identify Structure Defense needs.

Fire Size Class: 5 - 250 plus acres.

LET'S LOOK AT THE SANTA CLARITA VALLEY



Fire Danger Area:

- Santa Clarita Valley
- BN 6 & 22
- Newhall Pass
 - * Meets NWCG Wx Station Standards

FIRE

Fire Danger Interpretation:

EXTREME -- Use extreme caution
High -- Watch for change

Moderate -- Lower Potential, but always be aware

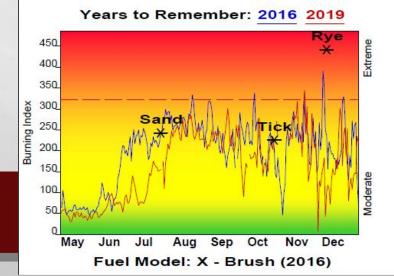
Maximum -- Highest Burning Index by day for 2016 - 2021

Average -- shows peak fire season over 5 years (1202 observations)

97th Percentile -- 3% of the 1202 days from 2016 - 2021
had an Burning Index above 323

Local Thresholds - Watch out: Combinations of any of these factors can greatly increase fire behavior:

20' Wind Speed over 15 mph, RH less than 25%, Temperature over 90, Burning Index over 279



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 -- First Weather Topography

the landscape -- Fuel, Weather, Topography.

Listen to weather forecasts -- especially WIND.

Past Experience:

Wind Driven Fire Can Produce:
Rates of Spread > 160 ch/hr
Spotting up to 0.5-1 Mile ahead of fire front.
Eye Level Winds > 7 MPH
Live Fuel Moistures < 75%
Fine Fuel Moistures < 5%
Active night burning conditions with RH <30%
Non- Wind Driven Fires: Look for variation on the fire ground Identify the alignment of wind, slope, and solar pre-heating

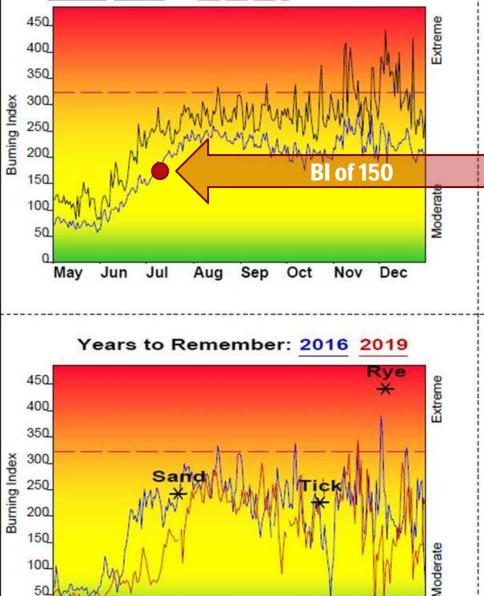
Responsible Agency: Los Angeles County Fire FF+5.0 build 20191211 07/01/2022-17:43 (C:\Users\Garrett Ha...\2022 master





EXAMPLE #3 TODAY IS JULY 3, 2022

- THE FORECASTED BURNING INDEX FOR THE SANTA CLARITA IS 150
- WHAT DOES THIS MEAN FOR YOU TO BUILD YOUR SITUATIONAL AWARENESS
- WHAT IS THE POTENTIAL FOR A LARGE FIRE
- ** REMEMBER THE POCKET CARD TARGETS THE POTENTIAL FOR LARGE FIRE GROWTH NOT INITIAL ATTACK PROBABILITIES



50

May

Jun

Aug

Sep

Fuel Model: X - Brush (2016)

Oct

FIRE DANGER -- Santa Clarita Valley

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

Fire Danger Area:

- Santa Clarita Valley
- BN 6 & 22
- Newhall Pass * 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 (1202 observations)

20' Wind Speed over 15 mph, RH less than 25%,

Temperature over 90, Burning Index over 279

of any of these factors can greatly increase fire behavior:

97th Percentile - 3% of the 1202 days from 2016 - 2021 had an Burning Index above 323 Local Thresholds - Watch out: Combinations

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 Fire Can Produce: Rates of Spread > 160 ch/hr Spotting up to 0.5-1 Mile ahead of fire front.

Eve Level Winds > 7 MPH Live Fuel Moistures < 75%

Dec

Nov

Fine Fuel Moistures < 5% Active night burning conditions with RH <30% Non- Wind Driven Fires: Look for variation on the fire ground Identify the alignment of wind, slope, and solar pre-heating

Responsible Agency: Los Angeles County Fire FF+5.0 build 20191211 07/01/2022-17:43 (C:\Users\Garrett Ha...\2022 master

Santa Clarita Forecast Zone Pocket Card 2022

BI 279 323+ Extreme Intensity Fire Behavior: (Wind and or Instability)
PERCENTILE 90% to 100% Associated with Fire Weather Watch and Red Flag Conditions.

Fire Behavior: Rapid fire growth should be anticipated with high rates of spread.

Significant spotting up to 3 miles with an exponentially expanding fire environment. Flame Length 50+ foot...

Key Indicators: Temps > 80 degrees; Wind >15 - 35+ mph; RH < 15%; 10HR DFM <3; LFM 80% -50%

Unstable Conditions = Abnormal Hot and Dry with little to no wind with critically dry live and dead fuels. (July-September)

Plume dominated Fire Conditions.....LAL 2&6

Targeted Months: August thru December.

Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.

Fire Size Class: 5000 plus acre potential within the first 4 hours.

BI 161 278 Moderate Intensity Fire Behavior: Associated with periods of hot, dry weather, light to moderate winds and spotting ½ -1 mile.

Fire Behavior: Fires are mainly topography driven with Westerly wind alignment features in the summer. Instability features may exist with fuels dominated fires leading to a plume dominated fire environment.

Key Indicators: Temps 85- 110 degrees; Wind 5- 15 mph; RH: 10%- 30%.. 10HR DFM >3-7%.. LFM 80% to 60% Unstable Conditions = Hot and Dry with little to no wind with dry live and dead fuels. (July-September)LAL 2&6

Targeted Months: July thru December

Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.

Fire Size Class: 250 - 5000 plus acres.

BI	55	160	Low Fire Behavior Intensity: Routine weather for the area.
			Spotting up to ½ mile

Fire Behavior: 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.

Key Indicators: Temps > 70 - 90 degrees; Wind 5 - 20 mph; RH 25%-40%; 10 HR DFM 5-9%; LFM 120% -60%

Targeted Months: May thru December

Engagement Tactical Options: Heel and Flank Suppression. Fires routinely held to topographic features with

suppression activity. Identify Structure Defense needs.

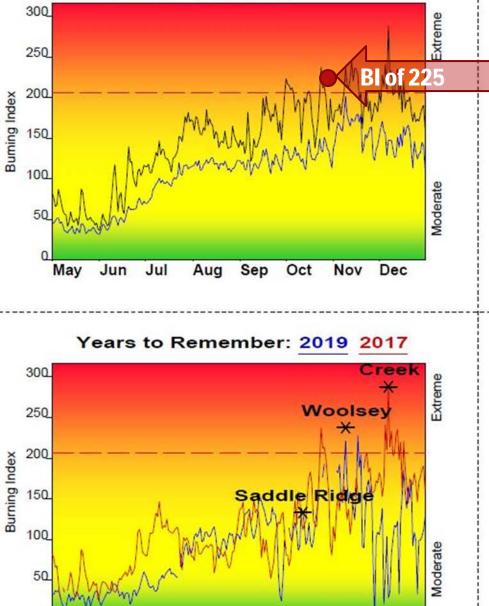
Fire Size Class: 5 - 250 plus acres.

Revision Date: 6//1/2022 By: LAC Fire Behavior Team: G.Hazleton LTAN / D.Smith FBAN



EXAMPLE #4 TODAY IS OCTOBER 21, 2022

- THE FORECASTED BURNING INDEX FOR THE LA BASIN IS 225
- WHAT DOES THIS MEAN FOR YOU TO BUILD YOUR SITUATIONAL AWARENESS
- WHAT IS THE POTENTIAL FOR A LARGE FIRE
- ** REMEMBER THE POCKET CARD TARGETS THE POTENTIAL FOR LARGE FIRE GROWTH NOT INITIAL ATTACK PROBABILITIES



Aug

Sep

Fuel Model: X - Brush (2016)

Oct

Nov

Dec

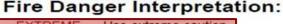
May

FIRE DANGER -- LA Basin

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

Fire Danger Area:

- LA Basin
 Whitter
- Whitter, San Rafael Hills
- Tonner Cyn, Claremont
 Meets NWCG Wx Station Standards



EXTREME -- Use extreme caution High -- Watch for change

had an Burning Index above 206

Moderate -- Lower Potential, but always be aware

Maximum -- Highest Burning Index by day for 2016 - 2021 Average -- shows peak fire season over 5 years (1202 observations) 97th Percentile -- 3% of the 1202 days from 2016 - 2021

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

Temperature over 85, Burning Index over 177

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:

Rates of Spread > 160 ch/hr

Spotting up to 0.5-1 Mile Ahead of Fire Front Eye Level Wind Speed > 7 MPH Live Fuel Moistures < 75% Fine Fuel Moistures < 5%

Active Night Burning Conditions with RH < 30% Non- Wind Driven Fires: Look for variation on the fire ground Identify the alignment of wind, slope, and solar pre-heating

identify the alignment of wind, slope, and solar pre-heating

Responsible Agency: Los Angeles County Fire FF+5.0 build 20191211 07/01/2022-17:42 (C:\Users\Garrett Ha...\2022 master Design by NWCG Fire Danger Working Team

Los Angeles Basin Forecast Zone Pocket Card 2022

BI 177 206+ Extreme Intensity Fire Behavior:
PERCENTILE 90% to 100% Associated with Fire Weather Watch and Red Flag Conditions.

Fire Behavior: Rapid fire growth should be anticipated with high rates of spread.

Significant spotting up to 3 miles with an exponentially expanding fire environment. Flame Length 50+ feet

Key Indicators: Temps > 80 degrees; Wind >15 - 35 mph; RH < 15%; 10HR DFM <3; LFM 80% -50%

Targeted Months: September thru December

Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.

Fire Size Class: 8000 plus acre potential within the first 4 hours.

BI 111 176 Moderate Intensity Fire Behavior: Associated with periods of hot, dry weather, light to moderate winds.

Fire Behavior: Fires are mainly topography driven with Westerly wind alignment features. Instability features may exist with fuels dominated fires leading to a plume dominated fire environment. Spotting ½ - 1 mile

Key Indicators: Temps 75- 100 degrees; Wind 5- 15 mph; RH: 15%- 30%.. 10HR DFM >5-7%.. LFM 80% to 60%

Targeted Months: July thru January (October - December BI Range 150 + YOU MAY BE TRENDING TOWARD a High Risk Day)

Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.

Fire Size Class: 250 - 1500 plus acres.

BI	40	110	Low Fire Behavior Intensity: Routine weather for the area

Fire Behavior: 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.

Key Indicators: Temps > 70 - 90 degrees; Wind 5 - 20 mph; RH < 25% - 50%; 10 HR DFM 5-12%; LFM 120% -60%

Targeted Months: May thru January

Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.

Fire Size Class: 5 - 250 plus acres.

Revision Date: 7/1/2022 NFDRS 2016v By: LAC Fire Behavior Team: G.Hazleton LTAN / D.Smith FBAN

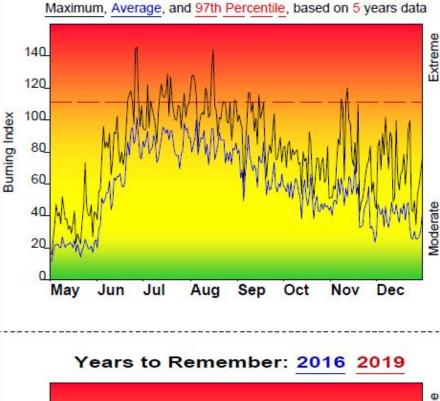
YOU GET THE IDEA

SO PUT THIS VALUED INFORMATION TO USE. THE BURNING INDEX IS USELESS....UNLESS YOU MAKE IT USEFUL

Here are all the cards







FIRE DANGER -- Antelope Valley



AV WX Stations

Fire Danger Interpretation:

* Meets NWCG Wx Station Standards

EXTREME -- Use extreme caution High -- Watch for change

Moderate -- Lower Potential, but always be aware

Maximum -- Highest Burning Index by day

Local Thresholds - Watch out: Combinations of any of these factors can greatly increase fire behavior:

Remember what Fire Danger tells you:

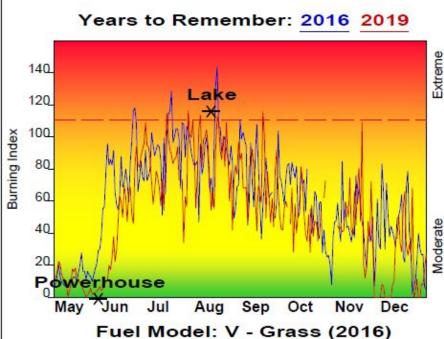
calculated from 2 pm temperature, humidity, wind, daily temperature & rh ranges, and precip duration.

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

20' Wind Speed over 10 mph, RH less than 15%, Temperature over 90, Burning Index over 97

✓ Burning Index gives day-to-day fluctuations

Watch local conditions and variations across



the landscape -- Fuel, Weather, Topography. VListen to weather forecasts -- especially WIND.

Past Experience:

Wind is part of BI calculation.

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

BI 97 111+ Extreme Intensity Fire Behavior: (Wind and or Instability)
PERCENTILE 90% to 100% Associated with Fire Weather Watch and Red Flag Conditions.

Fire Behavior: 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.. **Key Indicators:** Temps > 80 degrees; Wind >15 – 35+ mph; RH < 15%; 10 HR DFM <3; LFM 80% -50%

Unstable Conditions = Abnormal Hot and Dry with little to no wind with critically dry live and dead fuels. (July-September)

Plume dominated Fire Conditions. LAL-2 and 6 where fire transitions to heavier fuel beds.

Targeted Months: May thru October.

Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.

Fire Size Class: 5000 plus acre potential within the first 4 hours.

BI	70	96	Moderate Intensity Fire Behavior: Associated with periods of hot,
		*	dry weather, light to moderate winds and spotting 1/2 -1 mile.

Fire Behavior: 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).

Key Indicators: Temps 85- 110 degrees; Wind 5- 15 mph; RH: 10%- 20%.. 10 HR DFM >3-7%.. LFM 80% to 60%

Targeted Months: July thru January

Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.

Fire Size Class: 250 - 5000 plus acres.

BI	20	69	Low Fire Behavior Intensity: Routine weather for the area.
			Spotting up to 1/4 mile.

Fire Behavior: 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.

Key Indicators: Temps > 70 - 90 degrees; Wind 5 - 20 mph; RH 25%-40%; 10 HR DFM 5-9%; LFM 120% -60%

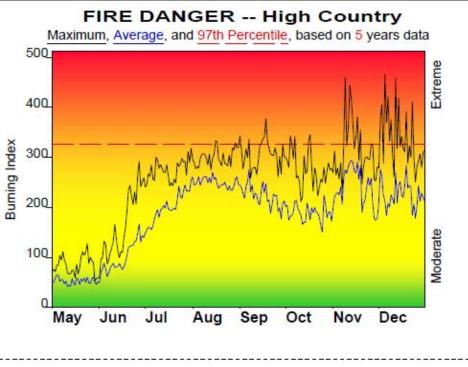
Targeted Months: May thru January

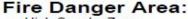
Engagement Tactical Options: Heel and Flank Suppression. Fires routinely held to topographic and road features with

suppression activity. Identify Structure Defense needs.

Fire Size Class: 5 - 250 plus acres.

Revision Date: 6//1/2022 By: LAC Fire Behavior Team: G.Hazleton LTAN / D.Smith FBAN





- High Country Zone
- Mostly Winthin ANF Camp 9 & Whitaker RAWS
- * Meets NWCG Wx Station Standards



Fire Danger Interpretation:

EXTREME -- Use extreme caution

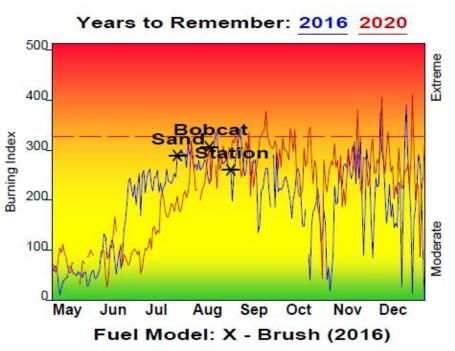
High -- Watch for change

Moderate -- Lower Potential, but always be aware

Maximum -- Highest Burning Index by day for 2016 - 2021 Average -- shows peak fire season over 5 years (1202 observations)

97th Percentile -- 3% of the 1202 days from 2016 - 2021 had an Burning Index above 327

Local Thresholds - Watch out: Combinations of any of these factors can greatly increase fire behavior: 20' Wind Speed over 15 mph, RH less than 25%, Temperature over 75, Burning Index over 294



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 Fire Can Produce:

Rates of Spread >80 ch/hr Spotting up to 0.5 - 1 Miles ahead of the fire front.

Eye Level Winds > 7 MPH Live Fuel Moistures < 75%

Fine Fuel Moistures < 5% Active night burning conditions with RH < 25%

Non-Wind Driven Fires: Mature fuel beds 20+ years of growth Identify the alignment of wind, slope and solar pre heating

Responsible Agency: Los Angeles County Fire FF+5.0 build 20191211 07/01/2022-17:39 (C:\Users\Garrett Ha...\2022 master

Design by NWCG Fire Danger Working Team

High Country Forecast Zone Pocket Card 2022

BI 294 327+ Extreme Intensity Fire Behavior: (Wind and or Instability)
PERCENTILE 90% to 100% Associated with Fire Weather Watch and Red Flag Conditions.

Fire Behavior: Rapid fire growth should be anticipated with high rates of spread.

Significant spotting up to 3 miles with an exponentially expanding fire environment. Flame Length 50+ feet.. **Key Indicators:** Temps > 80 degrees; Wind >15 – 35+ mph; RH < 15%; 10HR DFM <3; LFM 80% -50%

Unstable Conditions = Abnormal Hot and Dry with little to no wind with critically dry live and dead fuels. (July-September)

Plume dominated Fire Conditions.

Targeted Months: August thru December.

Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.

Fire Size Class: 5000 plus acre potential within the first 4 hours.

BI	200	293	Moderate Intensity Fire Behavior: Associated with periods of hot,
			dry weather, light to moderate winds and spotting ½ -1 mile.

Fire Behavior: Fires are mainly topography driven with Westerly wind alignment features in the summer. Steep topography leads to containment challenges due to roll out and re alignment to head fire.

Key Indicators: Temps 85- 110 degrees; Wind 5- 15 mph; RH: 10%- 30%.. 10HR DFM >3-7%.. LFM 80% to 60%

Unstable Conditions = Hot and Dry with little to no wind with dry live and dead fuels. (July-September)LAL 2&6

Targeted Months: July thru December

Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.

Fire Size Class: 250 - 5000 plus acres.

BI	50	199	Low Fire Behavior Intensity: Routine weather for the area.
			Spotting up to ½ mile

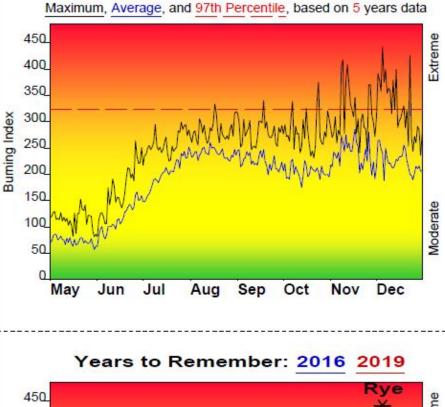
Fire Behavior: Fires are mainly topography dominated with slow to moderate rates of spread. Alignment of forces must be identified on routine weather days. Slope, Wind and Solar pre heating.

Key Indicators: Temps > 70 - 90 degrees; Wind 5 - 20 mph; RH 25%-40%; 10 HR DFM 5-9%; LFM 120% -60%

Targeted Months: May thru December

Engagement Tactical Options: Heel and Flank Suppression. Fires routinely held to topographic features with suppression activity. Identify Structure Defense needs.

Fire Size Class: 5 - 250 plus acres.



FIRE DANGER -- Santa Clarita Valley

Fire Danger Area:

- Santa Clarita Valley
- BN 6 & 22
- Newhall Pass
- * Meets NWCG Wx Station Standards

Fire Danger Interpretation: EXTREME -- Use extreme caution

Watch for change

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 (1202 observations) 97th Percentile -- 3% of the 1202 days from 2016 - 2021

had an Burning Index above 323

Local Thresholds - Watch out: Combinations of any of these factors can greatly increase fire behavior:

20' Wind Speed over 15 mph, RH less than 25%,

calculated from 2 pm temperature, humidity, wind,

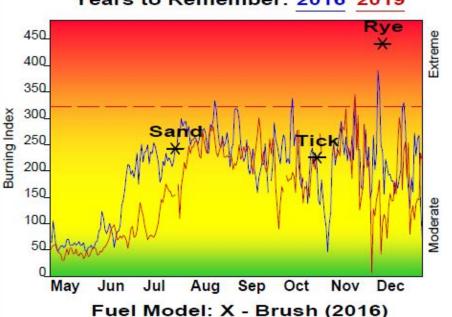
daily temperature & rh ranges, and precip duration.

Temperature over 90, Burning Index over 279

Burning Index gives day-to-day fluctuations

Watch local conditions and variations across

Remember what Fire Danger tells you:



the landscape -- Fuel, Weather, Topography. VListen to weather forecasts -- especially WIND.

Past Experience:

Wind is part of BI calculation.

Wind Driven Fire Can Produce: Rates of Spread > 160 ch/hr Spotting up to 0.5-1 Mile ahead of fire front. Eye Level Winds > 7 MPH

Live Fuel Moistures < 75% Fine Fuel Moistures < 5%

Active night burning conditions with RH <30%

Non- Wind Driven Fires: Look for variation on the fire ground

Identify the alignment of wind, slope, and solar pre-heating.

Identify the alignment of wind, slope, and solar pre-heating

Responsible Agency: Los Angeles County Fire

FF+5.0 build 20191211 07/01/2022-17:43 (C:\Users\Garrett Ha...\2022 master

Design by NWCG Fire Danger Working Team

Santa Clarita Forecast Zone Pocket Card 2022

BI 279 323+ Extreme Intensity Fire Behavior: (Wind and or Instability)
PERCENTILE 90% to 100% Associated with Fire Weather Watch and Red Flag Conditions.

Fire Behavior: Rapid fire growth should be anticipated with high rates of spread.

Significant spotting up to 3 miles with an exponentially expanding fire environment. Flame Length 50+ foot...

Key Indicators: Temps > 80 degrees; Wind > 15 - 35+ mph; RH < 15%; 10HR DFM <3; LFM 80% -50%

Unstable Conditions = Abnormal Hot and Dry with little to no wind with critically dry live and dead fuels. (July-September)

Plume dominated Fire Conditions.....LAL 2&6

Targeted Months: August thru December.

Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.

Fire Size Class: 5000 plus acre potential within the first 4 hours.

BI	161	278	Moderate Intensity Fire Behavior: Associated with periods of hot,
			dry weather, light to moderate winds and spotting 1/2 -1 mile.

Fire Behavior: Fires are mainly topography driven with Westerly wind alignment features in the summer. Instability features may exist with fuels dominated fires leading to a plume dominated fire environment.

Key Indicators: Temps 85- 110 degrees; Wind 5- 15 mph; RH: 10%- 30%.. 10HR DFM >3-7%.. LFM 80% to 60% Unstable Conditions = Hot and Dry with little to no wind with dry live and dead fuels. (July-September)LAL 2&6

Targeted Months: July thru December

Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.

Fire Size Class: 250 - 5000 plus acres.

BI	55	160	Low Fire Behavior Intensity: Routine weather for the area.
			Spotting up to ½ mile

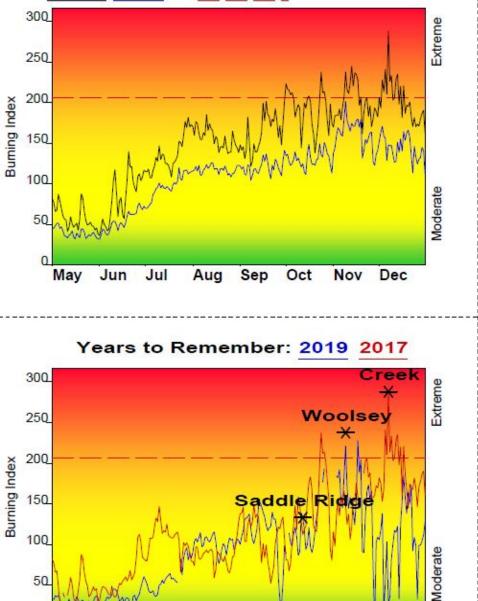
Fire Behavior: Fires are mainly topography dominated with slow to moderate rates of spread. Alignment of forces must be identified on routine weather days. Slope, Wind and Solar pre heating.

Key Indicators: Temps > 70 - 90 degrees; Wind 5 - 20 mph; RH 25%-40%; 10 HR DFM 5-9%; LFM 120% -60%

Targeted Months: May thru December

Engagement Tactical Options: Heel and Flank Suppression. Fires routinely held to topographic features with suppression activity. Identify Structure Defense needs.

Fire Size Class: 5 - 250 plus acres.



Aug

Sep

Fuel Model: X - Brush (2016)

Oct

Nov

Dec

50

May

FIRE DANGER -- LA Basin

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

Fire Danger Area:

- LA Basin
- Whitter, San Rafael Hills Tonner Cyn, Claremont
- * 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 (1202 observations)

had an Burning Index above 206 Local Thresholds - Watch out: Combinations

of any of these factors can greatly increase fire behavior:

97th Percentile -- 3% of the 1202 days from 2016 - 2021

20' Wind Speed over 15 mph, RH less than 20%, Temperature over 85, Burning Index over 177

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:

Rates of Spread > 160 ch/hr Spotting up to 0.5-1 Mile Ahead of Fire Front Eye Level Wind Speed > 7 MPH Live Fuel Moistures < 75% Fine Fuel Moistures < 5%

Active Night Burning Conditions with RH < 30% Non- Wind Driven Fires: Look for variation on the fire ground Identify the alignment of wind, slope, and solar pre-heating

Responsible Agency: Los Angeles County Fire

FF+5.0 build 20191211 07/01/2022-17:42 (C:\Users\Garrett Ha...\2022 master Design by NWCG Fire Danger Working Team

Los Angeles Basin Forecast Zone Pocket Card 2022

BI 177 206+ Extreme Intensity Fire Behavior:
PERCENTILE 90% to 100% Associated with Fire Weather Watch and Red Flag Conditions.

Fire Behavior: Rapid fire growth should be anticipated with high rates of spread.

Significant spotting up to 3 miles with an exponentially expanding fire environment. Flame Length 50+ feet

Key Indicators: Temps > 80 degrees; Wind >15 - 35 mph; RH < 15%; 10HR DFM <3; LFM 80% -50%

Targeted Months: September thru December

Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.

Fire Size Class: 8000 plus acre potential within the first 4 hours.

BI	111	176	Moderate Intensity Fire Behavior: Associated with periods of hot,
A.	4		dry weather, light to moderate winds.

Fire Behavior: Fires are mainly topography driven with Westerly wind alignment features. Instability features may exist with fuels dominated fires leading to a plume dominated fire environment. Spotting ½ - 1 mile

Key Indicators: Temps 75- 100 degrees; Wind 5- 15 mph; RH: 15%- 30%.. 10HR DFM >5-7%.. LFM 80% to 60%

Targeted Months: July thru January (October - December BI Range 150 + YOU MAY BE TRENDING TOWARD a High Risk Day)

Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.

Fire Size Class: 250 - 1500 plus acres.

BI	40	110	Low Fire Behavior Intensity: Routine weather for the area

Fire Behavior: 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.

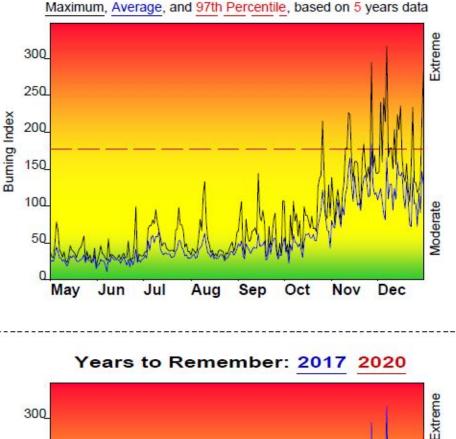
Key Indicators: Temps > 70 - 90 degrees; Wind 5 - 20 mph; RH < 25% - 50%; 10 HR DFM 5-12%; LFM 120% -60%

Targeted Months: May thru January

Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.

Fire Size Class: 5 - 250 plus acres.

Revision Date: 7/1/2022 NFDRS 2016v By: LAC Fire Behavior Team: G.Hazleton LTAN / D.Smith FBAN



FIRE DANGER -- Catalina Island

300_ 250 Burning Index 200 150 100 Moderate Goat 1999

Nov

Oct

Fuel Model: X - Brush (2016)

Dec

island

May

Fire Danger Area:

- Catalina Island
- Ridge Top
 - Dakin Peak RAWS
 - * Meets NWCG Wx Station Standards

Fire Danger Interpretation:

EXTREME -- Use extreme caution

High -- Watch for change

Moderate -- Lower Potential, but always be aware

97th Percentile -- 3% of the 785 days from 2016 - 2021

Maximum -- Highest Burning Index by day for 2016 - 2021 Average -- shows peak fire season over 5 years (785 observations)

had an Burning Index above 177

Local Thresholds - Watch out: Combinations of any of these factors can greatly increase fire behavior: 20' Wind Speed over 15 mph, RH less than 25%,

Temperature over 75, Burning Index over 127

calculated from 2 pm temperature, humidity, wind,

Remember what Fire Danger tells you: ✓ Burning Index gives day-to-day fluctuations

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 > 160 ch/hr

Spotting up to 0.5-1 Mile Ahead of Fire Front

Eve Level Winds > 7 MPH Live Fuel Moistures < 75%

Fine Fuel Moistures < 5% Active Night Burning Conditions with RH < 15%

Non- Wind Driven Fires: Mature fuel beds 20+ years of growth Identify the alignment of wind, slope and solar pre-heating

Responsible Agency: Los Angeles County Fire Department

FF+5.0 build 20191211 07/01/2022-17:35 (C:\Users\Garrett Ha...\2022 master Design by NWCG Fire Danger Working Team

Catalina Island Forecast Zone Pocket Card 2022

BI 127 177+ Moderate to High Intensity Fire Behavior:
PERCENTILE 90% to 100% May not be accociated with a Fire Weather Watch and Red Flag Conditions.

Fire Behavior: Increased fire growth should be anticipated with rates of spread at 1 mile an hour. Spotting ½ to 1 mile.

Flame Length 30+ feet.

Key Indicators: Temps > 80 degrees; Wind > 15 - 35 mph; RH < 15%; 10 HR DFM \leq 5; LFM 100% -50% The abundance of old growth fuels on the island will significantly contribute to a high resistance to control.

Targeted Months: May thru December

Engagement Tactical Options: Heel and Flank Suppression. Identify Structure Defense and Evacuations.

Fire Size Class: 1500 plus acre potential within the first 4 hours.

BI 80 126 Moderate Intensity Fire Behavior: Associated with periods of hot, dry weather, light to moderate winds and short range spotting

Fire Behavior: Fires are mainly topography driven with Westerly wind alignment features.

Key Indicators: Temps 75- 100 degrees; Wind 5- 15 mph; RH: 15%- 30%.. 10 HR DFM >5-7%.. LFM 80% to 60%

Targeted Months: May thru December

Engagement Tactical Options: Heel and Flank Suppression fires are routinely held to topographic and road features.

Identify Structure Defense and Evacuations.

Fire Size Class: 25 - 1500 plus acres.

(Moisture of extinction in fine fuels routinely after nightfall)

BI	25	79	Low Fire Behavior Intensity: Routine weather for the area

Fire Behavior: 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. Backing fire will have limited spread.

Key Indicators: Temps > 70 - 90 degrees; Wind 5 - 20 mph; RH < 30%- 50%; 10 HR DFM 5-12%; LFM 120% -60%

Targeted Months: May thru December

Engagement Tactical Options: Heel and Flank Suppression. Fires are routinely held to topographic and road features.

Identify Structure Defense.

Fire Size Class: 5 - 25 acres.

(Moisture of extinction in fine fuels routinely after nightfall)

Revision Date: 6//1/2022 By: LAC Fire Behavior Team: G.Hazleton LTAN / D.Smith FBAN

New Burning Index Values "Roll Out 2022" NFDRS Version 4

Forecast Zone NFDRS Version 3 vs Version 4 97 th Percentiles		New BI Value	LAC Augmented Staffing	
	NFDRS	NFDRS		
LA Basin	<u>vз</u> 151	<u>V 4</u> 206	206	
Santa Monica Mountains	156	242	192 (90 th)	
Santa Clarita Valley	153	323	323	
High Country	226	327	327	
Antelope Valley	124	111	111	
Catalina Island	82	177	177	
Gray Book Staffing based on the 97 th Percentile				
Malibu Hills RAWS	152	250		
Saugus RAWS	166	357		



THANK YOU FOR YOUR TIME.

STOP...

From your LAC Fire Behavior Team

SITUATIONAL AWARENESS

HINK ABOUT YOUR SURROUNDINGS

OBSERVE THE FIRE ENVIRONMENT

PREDICT WHAT THE FIRE HAS THE ABILITY TO DO