



Massachusetts Bureau of Forest Fire Control



NECC Daily Unit Situation Report Phone: 603.536.6208

Fires

Acres

3,567

Totals

New Fire Totals

Today's Date: N/R = Not Reported Monday, August 29, 2016 Year to Date Totals down by unit on the corresponding Refuge and Park Fire Totals Tab Total TOTAL TOTAL Fires Fires Hectares Number of ALL ALL Hectares Acres Reporting Last Acres Human Human Lightning Lightning Lightning Fires ACRES HECTARES Human Unit Updated Caused Caused Caused Caused Per Agency Caused Caused Per Agency Per Agency CT-CTS 355.36 08/26/16 200 143.81 1 6.60 2.67 201 146.48 361.96 MA-CCP* 0.00 0.00 01/01/16 0 0.00 0 0.00 0.00 0 0.00 MA-MAS 08/04/16 1.313 1.279.46 517.78 0 0.00 0.00 1.313 1.279.46 517.78 0 ME-ACP* 01/01/16 0 0.00 0.00 0.00 0.00 0 0.00 0.00 ME-MES 08/29/16 582 750.70 303.80 26 55.40 22.42 608 806.10 326.22 NB 08/27/16 253 254.80 103.11 10 6.00 2.43 263 260.80 105.54 NH-NHS 07/25/16 215.23 117 531.84 4 12.15 4.92 121 543.99 220.14 0.00 0.00 0 0.00 NH-WMF 04/17/16 0 0 0.00 0.00 0.00 75 877.20 13 26,198,20 88 08/29/16 354.99 10.602.04 27.075.40 10.957.03 NL NS 08/29/16 244 1.880.47 761.00 0 0.00 0.00 244 1.880.47 761.00 NY-NYS 13 46.70 08/05/16 123 2.849.10 1.152.99 18.90 136 2.895.80 1.171.89 PA-DWP* 0 0.00 01/01/16 0 0.00 0.00 0.00 0.00 0 0.00 QC 372 77 763.90 08/29/16 563.90 228.20 1.323.74 535.70 449 1.887.64 **RI-RIS** 7 6.47 04/19/16 16.00 6.47 0 0.00 0.00 7 16.00 USBIA-ER 01/01/16 0 0.00 0.00 0 0.00 0.00 0 0.00 0.00 USFWS-R5* 04/25/16 2 1.10 0.45 1 8.60 3.48 3 9.70 3.93 VT-GMF 05/19/16 0.50 0.20 0 0.00 0.20 4 0.00 4 0.50 VT-VTS 08/04/16 130 370.00 149.73 0 0.00 0.00 130 370.00 149.73 Totals YTD 3,422 9,730.43 3.937.77 145 27.657.39 11.192.55 Combined Total All Total All Total All

37.387.82

Hectares

15,130.31

Wildland Fire Occurrence Reporting for Massachusetts

Year	<u># Fires</u>	# Acres	
2013	1,722	1,430 Ac	
2014	1,519	1,430 Ac	
2015	2,541	2,381 Ac	167 Towns assisted by DCR
2016 Year to Date	1,332	1,300 +-	

Cambridge 7 Acres – Human Caused

2016 Fire Behavior Characteristics

Springtime:

- Surface Fires
- Moderate Rates of spread
- 100 hr Fuels involved by late April
- 1000 hr Fuels burning by end May
- Fires beginning to burn in by early May
- Summer Season:
 - Began by Mid June shortly after green up.
 - Surface fires with low to moderate rates of spread.
 - Fires burning deep by July.
 - Wind driven fires July 4th weekend.
 - 1000 hr fuel moist very low.





FIRE BEHAVIOR ENVIRONMENTAL FACTORS

FUELS

FUEL TYPE SIZE CLASS FUEL MOISTURE ARRANGEMENT LOADING LIVE OR DEAD

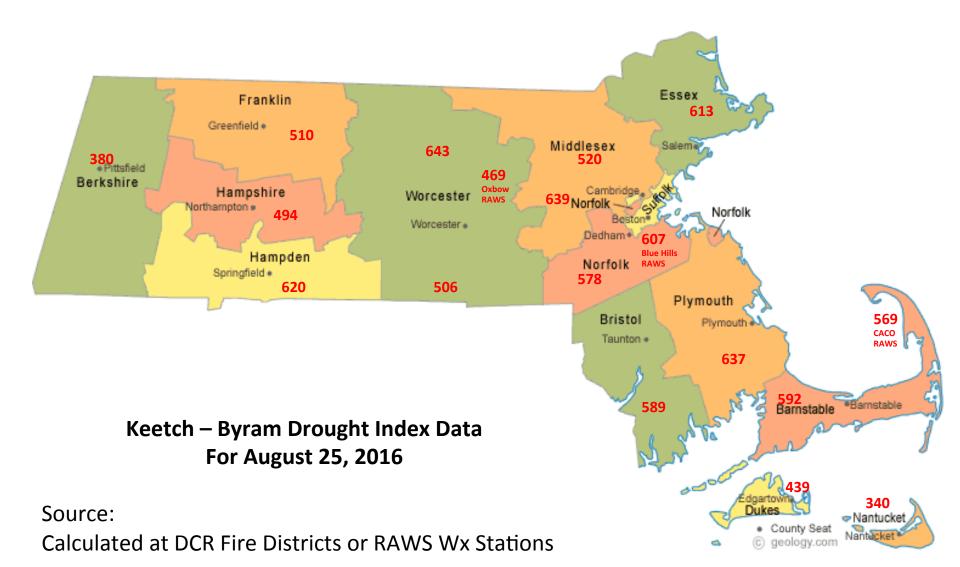
FIRE BEHAVIOR ENVIRONMENTAL FACTORS

AIR TEMP

- WIND Speed/Dir
- RELATIVE HUMIDITY
- WEATHER
- PRECIPITATION
 - DROUGHT (KBDI)
 - INVERSIONS
 - T~STORMS / COLD FRONTS
 - LIGHTNING ACTIVITY

DROUGHT IMPACTS ON FIRE MANAGEMENT:

•FIRE FIGHTER SAFETY •WATER AVAILABILITY FOR FIRE SUPPRESSION •DEMANDS TACTICS AND STRATEGY ADJUSTMENTS •POTENTIAL DRAIN ON RESOURCES



Keetch-Byrum Drought Index

KBDI = 0 - 200: Soil moisture and large class fuel moistures are high and do not contribute much to fire intensity. Typical of spring dormant season following winter precipitation.

KBDI = 200 - 400: Typical of late spring, early growing season. Lower litter and duff layers are drying and beginning to contribute to fire intensity.

KBDI = **400** - **600**: Typical of late summer, early fall. Lower litter and duff layers actively contribute to fire intensity and will burn actively.

KBDI = 600 - 800: Often associated with more severe drought with increased wildfire occurrence. Intense, deep burning fires with significant downwind spotting can be expected. Live fuels can also be expected to burn actively at these levels.

THANK YOU

QUESTIONS???

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