August President's Message Hazard Simplification: Put Simply, Get 'er Done

Dave Freeman, 2016 NWA President

Take a good, hard, long look at the list (<u>http://www.weather.gov/help-map</u>) you see at the bottom of this article. I am very sure that over the long history of the National Weather Service's weather warnings program, there were good reasons—apparently at least 122 good reasons—for the way that we try to communicate weather risks to the general public. But as the old saying goes, "The road to hell is paved with good intentions." We started down the road with very good intentions, and each paving stone was laid with good intentions. But the road has taken us to a place we did not intend—or want—to go.

The genesis of our weather warnings system was in the "Dark Ages of Communication" compared to today. When the first weather warnings were issued, there were very primitive means of communicating with the general public. Basically, it didn't matter whether a weather warning was issued in the middle of the night, for example, because there was no practical means to deliver that message to people who were at home, sound asleep. Weather information was on a "pull" basis— someone had to want the information and seek it out—by turning on the radio or the TV.

But the world has changed when it comes to communication! With the expansion of NOAA Weather Radio and the addition of tone alerting in the early 1970s, we began a quick march to a world of "push" alerts. Throw in mobile phones, tablets, and even computerized phone calls to land lines, and you have a population that is increasingly connected 24/7 to a blizzard of weather information.

That's because at the same time we were seeing these tremendous advances in communication technology and infrastructure, we were also witnessing a revolution in the weather business. The steady advance of modern meteorology in the first half of the 20th century became a torrent of new technology, knowledge and capability in the closing years of the century. All of a sudden, we meteorologists could detect and forecast many things that were previously unknown or out of reach. So we did.

And we ended up with 122 different NWS weather hazard products. Given that research consistently shows that the average person on the street probably can't even tell you the difference between a Tornado Watch and a Tornado Warning, it is clear we have a communication problem.

This is seriously complicated by the fact that so many people are now connected with mobile devices on their bedside table, and yes, NOAA Weather Radios. When we issue something at 2:00 in the morning, people actually get the message. And they are not necessarily happy about it!

So it is heartening that our community, our National Weather Service, is meeting this challenge head-on. The NWS Hazard Simplification Project is making good progress toward designing a path forward for our community that will reflect modern communication and social science realities and our meteorological capabilities. You can see some of the current progress on the Weather Ready Nation website. http://www.nws.noaa.gov/com/weatherreadynation/files/HazardSimplification.pdf

We also have some great examples of how other nations have navigated this course—the UK Met Office being one that we learned about at our NWA Annual Meeting in 2014.

I urge everyone in the operational meteorology community to support these efforts, even knowing that it is very likely that some sacred cows will have to be sacrificed. The bottom line is that our effectiveness is only partially measured by FARs and PODs. The real measure of the success of a weather warning is this: Did the people take the appropriate action in time to protect lives and property?

(If you would like to learn more about this, check out this excellent presentation on the NWS Warning Decision Training Division website. <u>http://wdtb.noaa.gov/courses/awoc/documentation/handouts-Core/The-Warning-Response-Process.pdf</u> Full disclosure: you will see a familiar face.)

I urge the Hazard Simplification Team and the leadership of the National Weather Service to be bold and proactive. No doubt this will be a topic of some interest and discussion at our Annual Meeting in a couple of weeks. I look forward to seeing you there!

Hazard / Weather Event Click on the Hazard/Weather Event For Definitions	Color Sample	Color Name	RGB Color	Hex Code
911 Telephone Outage		Silver	192 192 192	C0C0C0
Administrative Message		White	255 255 255	FFFFFF
Air Quality Alert		Gray	128 128 128	808080
Air Stagnation Advisory		Gray	128 128 128	808080
Arroyo and Small Stream Flood Advisory		Springgreen	0 255 127	00FF7F
Ashfall Advisory		Dimgray	105 105 105	696969
Ashfall Warning		Darkgray	169 169 169	A9A9A9
Avalanche Advisory		Peru	205 133 63	CD853F
Avalanche Warning		Dodgerblue	30 144 255	1E90FF
Avalanche Watch		Sandybrown	244 164 96	F4A460
Beach Hazards Statement		turquoise	64 224 208	40E0D0
Blizzard Warning		Orangered	255 69 0	FF4500
Blizzard Watch		Greenyellow	173 255 47	ADFF2F
Blowing Dust Advisory		Darkkhaki	189 183 107	BDB76B
Brisk Wind Advisory		Thistle	216 191 216	D8BFD8
Child Abduction Emergency		Gold	255 215 0	FFD700
Civil Danger Warning		Lightpink	255 182 193	FFB6C1
Civil Emergency Message		Lightpink	255 182 193	FFB6C1
Coastal Flood Advisory		Lawngreen	124 252 0	7CFC00
Coastal Flood Statement		Olivedrab	107 142 35	6B8E23
Coastal Flood Warning		Forestgreen	34 139 34	228B22
Coastal Flood Watch		Mediumaquamarine	102 205 170	66CDAA
Dense Fog Advisory		Slategray	112 128 144	708090
Dense Smoke Advisory		Khaki	240 230 140	F0E68C
Dust Storm Warning		Bisque	255 228 196	FFE4C4

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Hard Freeze WatchRoyalblue65 105 225 4169E1Hazardous Materials WarningIndigo75 0 130 4B0082Hazardous Seas WarningThistle216 191 216 D8BFD8Hazardous Seas WatchDarkslateblue72 61 139 483D8BHazardous Weather OutlookPalegoldenrod238 232 170 EEE8AAHeat AdvisoryCoral255 127 80 FF7F50Heavy Freezing Spray WarningDeepskyblue0 191 255 00BFFFHeavy Freezing Spray WatchRosybrown188 143 143 BC8F8F	Gale Watch		Pink	255 192 203	FFC0CB
Hazardous Materials WarningIndigo75 0 1304B0082Hazardous Seas WarningThistle216 191 216 D8BFD8Hazardous Seas WatchDarkslateblue72 61 139483D8BHazardous Weather OutlookPalegoldenrod238 232 170 EEE8AAHeat AdvisoryCoral255 127 80 FF7F50Heavy Freezing Spray WarningDeepskyblue0 191 25500BFFFHeavy Freezing Spray WatchRosybrown188 143 143 BC8F8F	Hard Freeze Warning		Darkviolet	148 0 211	9400D3
Hazardous Seas WarningThistle216 191 216 D8BFD8Hazardous Seas WatchDarkslateblue72 61 139483D8BHazardous Weather OutlookPalegoldenrod238 232 170 EEE8AAHeat AdvisoryCoral255 127 80 FF7F50Heavy Freezing Spray WarningDeepskyblue0 191 255Heavy Freezing Spray WatchRosybrown188 143 143 BC8F8F	Hard Freeze Watch		Royalblue	65 105 225	4169E1
Hazardous Seas WatchDarkslateblue72 61 139483D8BHazardous Weather OutlookPalegoldenrod238 232 170 EEE8AAHeat AdvisoryCoral255 127 80FF7F50Heavy Freezing Spray WarningDeepskyblue0 191 25500BFFFHeavy Freezing Spray WatchRosybrown188 143 143 BC8F8F	Hazardous Materials Warning		Indigo	75 0 130	4B0082
Hazardous Weather OutlookPalegoldenrod238 232 170 EEE8AAHeat AdvisoryCoral255 127 80 FF7F50Heavy Freezing Spray WarningDeepskyblue0 191 255 00BFFFHeavy Freezing Spray WatchRosybrown188 143 143 BC8F8F	Hazardous Seas Warning		Thistle	216 191 216	D8BFD8
Heat AdvisoryCoral255 127 80FF7F50Heavy Freezing Spray WarningDeepskyblue0 191 25500BFFFHeavy Freezing Spray WatchRosybrown188 143 143 BC8F8F	Hazardous Seas Watch		Darkslateblue	72 61 139	483D8B
Heavy Freezing Spray WarningDeepskyblue0 191 25500BFFFHeavy Freezing Spray WatchRosybrown188 143 143 BC8F8F	Hazardous Weather Outlook		Palegoldenrod	238 232 170	EEE8AA
Heavy Freezing Spray Watch Rosybrown 188 143 143 BC8F8F	Heat Advisory		Coral	255 127 80	FF7F50
	Heavy Freezing Spray Warning		Deepskyblue	0 191 255	00BFFF
High Surf AdvisoryMediumorchid186 85 211BA55D3	Heavy Freezing Spray Watch		Rosybrown	188 143 143	BC8F8F
	High Surf Advisory		Mediumorchid	186 85 211	BA55D3

Hazard / Weather Event Click on the Hazard/Weather Event For Definitions	Color Sample	Color Name	RGB Color	Hex Code
High Surf Warning		Forestgreen	34 139 34	228B22
High Wind Warning		Goldenrod	218 165 32	DAA520
High Wind Watch		Darkgoldenrod	184 134 11	B8860B
Hurricane Force Wind Warning		Westernred	205 92 92	CD5C5C
Hurricane Force Wind Watch		Darkorchid	153 50 204	9932CC
Hurricane Local Statement		Moccasin	255 228 181	FFE4B5
Hurricane Warning		Crimson	220 20 60	DC143C
Hurricane Watch		Magenta	255 0 255	FF00FF
Hydrologic Advisory		Springgreen	0 255 127	00FF7F
Hydrologic Outlook		lightgreen	144 238 144	90EE90
Ice Storm Warning		Darkmagenta	139 0 139	8B008B
Lake Effect Snow Advisory		Mediumturquoise	72 209 204	48D1CC
Lake Effect Snow Warning		Darkcyan	0 139 139	008B8B
Lake Effect Snow Watch		Lightskyblue	135 206 250	87CEFA
Lake Wind Advisory		Tan	210 180 140	D2B48C
Lakeshore Flood Advisory		Lawngreen	124 252 0	7CFC00
Lakeshore Flood Statement		Olivedrab	107 142 35	6B8E23
Lakeshore Flood Warning		Forestgreen	34 139 34	228B22
Lakeshore Flood Watch		Mediumaquamarine	102 205 170	66CDAA
Law Enforcement Warning		Silver	192 192 192	C0C0C0
Local Area Emergency		Silver	192 192 192	C0C0C0
Low Water Advisory		Brown	165 42 42	A52A2A
Marine Weather Statement		Peachpuff	255 239 213	FFDAB9
Nuclear Power Plant Warning		Indigo	75 0 130	4B0082
Radiological Hazard Warning		Indigo	75 0 130	4B0082
Red Flag Warning		Deeppink	255 20 147	FF1493
Rip Current Statement		turquoise	64 224 208	40E0D0
Severe Thunderstorm Warning		Orange	255 165 0	FFA500
Severe Thunderstorm Watch		Palevioletred	219 112 147	DB7093
Severe Weather Statement		Aqua	0 255 255	00FFFF
Shelter In Place Warning		Salmon	250 128 114	FA8072
Short Term Forecast		Palegreen	152 251 152	98FB98
Small Craft Advisory		Thistle	216 191 216	D8BFD8
Small Craft Advisory For Hazardous Seas		Thistle	216 191 216	D8BFD8
Small Craft Advisory For Rough Bar		Thistle	216 191 216	D8BFD8

Hazard / Weather Event Click on the Hazard/Weather Event For Definitions	Color Sample	Color Name	RGB Color	Hex Code
Small Craft Advisory For Winds		Thistle	216 191 216	D8BFD8
Small Stream Flood Advisory		Springgreen	0 255 127	00FF7F
Special Marine Warning		Orange	255 165 0	FFA500
Special Weather Statement		Moccasin	255 228 181	FFE4B5
Storm Warning		Darkviolet	148 0 211	9400D3
Storm Watch		Moccasin	255 228 181	FFE4B5
<u>Test</u>		Azure	240 255 255	F0FFFF
<u>Tornado Warning</u>		Red	255 0 0	FF0000
Tornado Watch		Yellow	255 255 0	FFFF00
Tropical Depression Local Statement		Moccasin	255 228 181	FFE4B5
Tropical Storm Local Statement		Moccasin	255 228 181	FFE4B5
Tropical Storm Warning		Firebrick	178 34 34	B22222
Tropical Storm Watch		Lightcoral	240 128 128	F08080
Tsunami Advisory		Chocolate	210 105 30	D2691E
<u>Tsunami Warning</u>		Tomato	253 99 71	FD6347
Tsunami Watch		Fushsia	255 0 255	FF00FF
Typhoon Local Statement		Moccasin	255 228 181	FFE4B5
<u>Typhoon Warning</u>		Crimson	220 20 60	DC143C
Typhoon Watch		Magenta	255 0 255	FF00FF
Urban and Small Stream Flood Advisory		Springgreen	0 255 127	00FF7F
Volcano Warning		darkslategray	47 79 79	2F4F4F
Wind Advisory		Tan	210 180 140	D2B48C
Wind Chill Advisory		Paleturquoise	175 238 238	AFEEEE
Wind Chill Warning		Lightsteelblue	176 196 222	B0C4DE
Wind Chill Watch		Cadetblue	95 158 160	5F9EA0
Winter Storm Warning		Hotpink	255 105 180	FF69B4
Winter Storm Watch		Steelblue	70 130 180	4682B4
Winter Weather Advisory		Mediumslateblue	123 104 238	7B68EE