# National Interagency Coordination Center Incident Management Situation Report <br> Thursday, June 27, 2019 - 0530 MT <br> National Preparedness Level 2 

National Fire Activity
Initial attack activity:
New large incidents:
Large fires contained:
Uncontained large fires:**
Area Command teams committed:
NIMOs committed:
Type 1 IMTs committed:
Type 2 IMTs committed:
Nationally, there are 22 large fires being managed under a strategy other than full suppression.
**Uncontained large fires include only fires being managed under a full suppression strategy.
Link to Geographic Area daily reports.
Link to Understanding the IMSR.

Five wildland fire suppression crews and one Interagency Resource Representative (IARR) are assigned to support large fires in Alberta, Canada.

| Active Incident Resource Summary |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| GACC | Incidents | Cumulative <br> Acres | Crews | Engines | Helicopters | Total <br> Personnel |
| AICC | 11 | 43,136 | 33 | 20 | 17 | 1,137 |
| NWCC | 1 | 5,979 | 3 | 10 | 0 | 108 |
| ONCC | 2 | 2,832 | 7 | 20 | 1 | 238 |
| OSCC | 2 | 3,616 | 2 | 5 | 2 | 117 |
| NRCC | 0 | 0 | 0 | 0 | 0 | 0 |
| GBCC | 3 | 3,695 | 0 | 5 | 3 | 50 |
| SWCC | 8 | 159,139 | 34 | 53 | 11 | 1,505 |
| RMCC | 3 | 449 | 3 | 5 | 0 | 77 |
| EACC | 0 | 0 | 0 | 0 | 0 | 0 |
| SACC | 3 | 42,383 | 4 | 1 | 0 | 11 |
| Total | $\mathbf{3 3}$ | 261,230 | $\mathbf{8 6}$ | $\mathbf{1 1 9}$ | $\mathbf{3 4}$ | $\mathbf{3 , 2 4 3}$ |

## Alaska Area (PL 4)

| New fires: | 6 |
| :--- | :--- |
| New large incidents: | 0 |
| Uncontained large fires: | 3 |
| Type 2 IMTs Committed: | 2 |

Swan Lake, Kenai-Kodiak Area, Alaska DOF. IMT 2 (AK Black Team). Six miles northeast of Sterling, AK. Timber and short grass. No new information.

Shovel Creek, Fairbanks Area Zone, Alaska DOF. IMT 2 (AK Green Team). IMT is also managing the Nugget Creek incident. Twenty miles northwest of Fairbanks, AK. Timber and brush. Active fire behavior with torching and spotting. Residences and communication infrastructure threatened.

Nugget Creek, Fairbanks Area Zone, Alaska DOF. Sixteen miles northeast of North Pole, AK. Timber and brush. Active fire behavior with flanking and running. Trail closures in effect.

Caribou Creek, Fairbanks Area Zone, Alaska DOF. Twenty miles northeast of North Pole, AK. Tall grass and timber. Minimal fire behavior with smoldering. Residences threatened.

Boundry River, Tok Area Forestry, Alaska DOF. Thirty-seven miles southeast of Tok, AK. Timber and short grass. Active fire behavior with short crown runs, torching and short-range spotting. Residences threatened.

| Incident Name | Unit | Size |  | \% | Ctn/ Comp | Est | Personnel |  | Resources |  |  | Strc <br> Lost | $\begin{gathered} \$ \$ \\ \text { CTD } \end{gathered}$ | Origin Own |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Acres | Chge |  |  |  | Total | Chge | Crw | Eng | Heli |  |  |  |
| Swan Lake | AK-KKS | 40,383 | --- | 10 | Comp | 08/31 | 511 | --- | 15 | 10 | 6 | 0 | 4.5M | FWS |
| Shovel Creek | AK-FAS | 1,622 | 714 | 0 | Ctn | 07/06 | 345 | 108 | 8 | 10 | 7 | 0 | 1.2M | ST |
| Nugget Creek | AK-FAS | 665 | 7 | 0 | Comp | 10/01 | 1 | -10 | 0 | 0 | 0 | 0 | 2K | ST |
| Caribou Creek | AK-FAS | 310 | 0 | 66 | Ctn | 07/02 | 159 | 0 | 7 | 0 | 3 | 0 | 1.7M | ST |
| Boundry River | AK-TAS | 2,700 | 1,000 | 0 | Ctn | 07/10 | 0 | 0 | 0 | 0 | 0 | 0 | 200K | ST |

Large Fires Being Managed With a Strategy Other Than Full Suppression Without a Type 1 or 2 IMT Assigned

| North River | AK-GAD | 51,000 | --- | 0 | Comp | $09 / 01$ | 0 | --- | 0 | 0 | 0 | 0 | 15 K | BLM |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| McArthur Creek | AK-TAS | 6,774 | --- | 0 | Comp | $07 / 15$ | 2 | --- | 0 | 0 | 0 | 0 | 84 K | ST |
| Old Grouch Top | AK-SWS | 6,426 | --- | 0 | Comp | $07 / 31$ | 0 | --- | 0 | 0 | 0 | 0 | 1 K | ST |
| Hadweenzic <br> River | AK-UYD | 3,946 | --- | 0 | Comp | $07 / 31$ | 0 | --- | 0 | 0 | 0 | 0 | 1 K | BLM |
| Frozen Calf | AK-UYD | 3,037 | --- | 0 | Comp | $07 / 31$ | 0 | --- | 0 | 0 | 0 | 0 | 1 K | BLM |
| Ongivinuk River | AK-SWS | 2,505 | --- | 0 | Comp | $07 / 31$ | 0 | --- | 0 | 0 | 0 | 0 | 5 K | FWS |
| Bakbuk Creek | AK-SWS | 776 | --- | 0 | Comp | $07 / 04$ | 0 | --- | 0 | 0 | 0 | 0 | 1 K | ST |
| Black River | AK-UYD | 711 | --- | 0 | Comp | $07 / 31$ | 0 | --- | 0 | 0 | 0 | 0 | NR | BLM |
| Marr | AK-UYD | 644 | --- | 0 | Comp | $07 / 31$ | 0 | --- | 0 | 0 | 0 | 0 | 12 K | BLM |
| Hess Creek | AK-UYD | 550 | --- | 0 | Comp | $07 / 31$ | 0 | --- | 0 | 0 | 0 | 0 | 2 K | BLM |
| East Fork <br> Dennison | AK-TAS | 400 | --- | 0 | Comp | $07 / 30$ | 0 | --- | 0 | 0 | 0 | 0 | 3 K | ST |
| Kipchuk River | AK-SWS | 328 | --- | 0 | Comp | $07 / 31$ | 0 | --- | 0 | 0 | 0 | 0 | 1 K | ST |
| Victoria <br> Mountain | AK-UYD | 328 | --- | 0 | Comp | $07 / 31$ | 0 | --- | 0 | 0 | 0 | 0 | 1 K | BLM |
| Shoeleather <br> Creek | AK-SWS | 172 | --- | 0 | Comp | $07 / 31$ | 0 | --- | 0 | 0 | 0 | 0 | 2 K | BLM |

GAD - Galena Zone, BLM SWS - Southwest Area Forestry, DOF UYD - Upper Yukon Zone, BLM

Southwest Area (PL 3)

New fires:
New large incidents:
Uncontained large fires:
Type 1 IMTs Committed:
Type 2 IMTs Committed:

Woodbury, Tonto NF. IMT 1 (SW Team 2). Transfer of command from IMT 1 (SW Team 2) back to the local unit will occur tomorrow. Fifteen miles northwest of Superior, AZ. Tall grass, brush and chaparral. Moderate fire behavior with backing, flanking and creeping. Infrastructure threatened. Area, road and trail closures in effect.

Pine Lodge, Lincoln NF. IMT 2 (SW Team 5). Five miles northwest of Arabella, NM. Timber, short grass and medium logging slash. Moderate fire behavior with single tree torching, backing and flanking. Structures and infrastructure threatened. Evacuations, area, road and trail closures in effect. Precipitation occured over the fire area yesterday.

* Gap, San Carlos Agency, BIA. Ten miles northeast of Bylas, AZ. Brush and short grass. Active fire behavior with running, flanking and wind-driven runs. Structures threatened.

Badger Springs, Phoenix District Office, BLM. Seven miles southeast of Cordes Junction, AZ. Brush and tall grass. Minimal fire behavior.

Bylas, San Carlos Agency, BIA. Twenty-five miles southwest of San Carlos, AZ. Short grass and brush. Minimal fire behavior with creeping and smoldering.

Azabachi, Rio Puerco Field Office, BLM. Previously reported incident. Nineteen miles southwest of Torreon, NM. Timber and brush. Minimal fire behavior.

| Incident Name | Unit | Size |  | \% | Ctn/ Comp | Est | Personnel |  | Resources |  |  | Strc <br> Lost | $\begin{gathered} \$ \$ \\ \text { CTD } \end{gathered}$ | Origin Own |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Acres | Chge |  |  |  | Total | Chge | Crw | Eng | Heli |  |  |  |
| Woodbury | AZ-TNF | 123,263 | 1,364 | 53 | Comp | 07/15 | 703 | -133 | 15 | 22 | 4 | 0 | 18.9M | FS |
| Pine Lodge | NM-LNF | 12,484 | 3,431 | 11 | Ctn | 08/01 | 566 | 8 | 14 | 24 | 2 | 3 | 3.7M | FS |
| * Gap | AZ-SCA | 16,721 | --- | 50 | Ctn | 07/02 | 115 | --- | 4 | 0 | 3 | 0 | 530K | BIA |
| Badger Springs | AZ-PHD | 2,525 | 0 | 90 | Ctn | 06/28 | 65 | 0 | 1 | 2 | 1 | 0 | 275K | BLM |
| Bylas | AZ-SCA | 340 | 0 | 95 | Ctn | 06/28 | 17 | -2 | 0 | 0 | 1 | 0 | 1.2M | BIA |
| Azabachi | NM-RPD | 400 | 64 | 40 | Ctn | 06/28 | 3 | -22 | 0 | 1 | 0 | 0 | 20K | BLM |

Large Fires Being Managed With a Strategy Other Than Full Suppression Without a Type 1 or 2 IMT Assigned

| Lone Mountain | NM-LNF | 1,046 | 0 | 50 | Comp | $07 / 15$ | 21 | 15 | 0 | 1 | 0 | 0 | 200 K | FS |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gurule | NM-CAF | 2,360 | --- | 90 | Comp | $06 / 30$ | 30 | --- | 0 | 3 | 0 | 0 | 465 K | FS |

CAF - Carson NF

## Northern California Area (PL 2)

| New fires: | 16 |
| :--- | :---: |
| New large incidents: | 1 |
| Uncontained large fires: | 1 |

[^0]| Incident Name | Unit |  |  | \% | Ctn/ Comp | Est | Personnel |  | Resources |  |  | Strc Lost | $\begin{gathered} \$ \$ \\ \text { CTD } \end{gathered}$ | Origin Own |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Acres | Chge |  |  |  | Total | Chge | Crw | Eng | Heli |  |  |  |
| * Rock | CA-SCU | 2,422 | --- | 50 | Ctn | 06/27 | 180 | --- | 4 | 20 | 0 | 0 | 383K | ST |
| Large Fires Being Managed With a Strategy Other Than Full Suppression Without a Type 1 or 2 IMT Assigned |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| East | CA-MNF | 410 | 0 | 30 | Comp | 07/31 | 58 | -7 | 3 | 0 | 1 | 0 | 911K | FS |

MNF - Mendocino NF

## Great Basin Area (PL 1)

| New fires: | 11 |
| :--- | :---: |
| New large incidents: | 1 |
| Uncontained large fires: | 0 |

Uncontained large fires: 0

* Skull Flat, Fishlake NF. Six miles east of Beaver, UT. Timber. Active fire behavior with torching, running and crowning. Last narrative report unless significant activity occurs.

| Incident Name | Unit | Size |  | \% | Ctn/ Comp | Est | Personnel |  | Resources |  |  | Strc <br> Lost | $\begin{gathered} \$ \$ \\ \text { CTD } \end{gathered}$ | Origin Own |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Acres | Chge |  |  |  | Total | Chge | Crw | Eng | Heli |  |  |  |
| * Skull Flat | UT-FIF | 2,000 | --- | 0 | Comp | 08/01 | 38 | --- | 0 | 0 | 3 | 0 | 80K | FS |
| Union | NV-PERX | 1,245 | 0 | 100 | Ctn | --- | 10 | -18 | 0 | 3 | 0 | 1 | 50K | PRI |

PERX - Pershing County

## Northwest Area (PL 1)

New fires:
New large incidents:
Uncontained large fires:

| Incident Name | Unit | Size |  | \% | Ctn/ Comp | Est | Personnel |  | Resources |  |  | Strc <br> Lost | $\begin{gathered} \$ \$ \\ \text { CTD } \end{gathered}$ | Origin Own |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Acres | Chge |  |  |  | Total | Chge | Crw | Eng | Heli |  |  |  |
| Elmer City | WA-COA | 1,979 | -121 | 100 | Ctn | --- | 108 | 0 | 3 | 10 | 0 | 3 | 550K | FS |

COA - Colville Agency, BIA

## Southern Area (PL 1)

New fires:
46
New large incidents:
0
Uncontained large fires:
0
Sawgrass (6), Florida Forest Service. Previously reported incident. Nineteen miles northwest of Weston, FL.
Tall grass. Minimal fire behavior. Last narrative report unless significant activity occurs.

| Incident Name | Unit | Size |  | \% | Ctn/ Comp | Est | Personnel |  | Resources |  |  | Strc <br> Lost | $\begin{gathered} \$ \$ \\ \text { CTD } \end{gathered}$ | Origin Own |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Acres | Chge |  |  |  | Total | Chge | Crw | Eng | Heli |  |  |  |

Large Fires Being Managed With a Strategy Other Than Full Suppression Without a Type 1 or 2 IMT Assigned

| Sawgrass (6) | FL-FLS | 41,700 | 10,200 | 65 | Comp | UNK | 7 | 3 | 4 | 0 | 0 | 0 | $7 K$ | ST |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Fires and Acres Yesterday (by Protection):

| Area |  | BIA | BLM | FWS | NPS | ST/OT | USFS | TOTAL |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alaska Area | FIRES | 0 | 4 | 0 | 0 | 2 | 0 | $\mathbf{6}$ |
|  | ACRES | 0 | 38,491 | 0 | 0 | 6,346 | 0 | $\mathbf{4 4 , 8 3 7}$ |
| Northwest Area | FIRES | 3 | 0 | 0 | 0 | 5 | 6 | $\mathbf{1 4}$ |
|  | ACRES | 1 | 0 | 0 | 0 | 0 | 0 | $\mathbf{1}$ |
| Northern California Area | FIRES | 0 | 1 | 0 | 0 | 15 | 0 | $\mathbf{1 6}$ |
|  | ACRES | 0 | 0 | 0 | 0 | 786 | 0 | $\mathbf{7 8 6}$ |
| Southern California Area | FIRES | 0 | 0 | 0 | 0 | 21 | 0 | $\mathbf{2 1}$ |
|  | ACRES | 0 | 0 | 0 | 0 | 2,561 | 0 | $\mathbf{2 , 5 6 1}$ |
| Northern Rockies Area | FIRES | 2 | 1 | 0 | 0 | 2 | 2 | $\mathbf{7}$ |
|  | ACRES | 0 | 1 | 0 | 0 | 0 | 0 | $\mathbf{1}$ |
| Great Basin Area | FIRES | 0 | 3 | 0 | 0 | 5 | 3 | $\mathbf{1 1}$ |
|  | ACRES | 0 | 1 | 0 | 0 | 162 | 2,015 | $\mathbf{2 , 1 7 8}$ |
| Rocky Mountain Area | FIRES | 4 | 0 | 0 | 0 | 1 | 1 | $\mathbf{6}$ |
|  | ACRES | 1 | 0 | 0 | 0 | 1 | 3,431 | $\mathbf{3 , 4 3 3}$ |
| Eastern Area | ACRES | 0 | 0 | 0 | 0 | 0 | 270 | $\mathbf{2 7 0}$ |
|  | FIRES | 0 | 0 | 0 | 0 | 2 | 0 | $\mathbf{2}$ |
| TOTAL FIRES: | ACRES | 0 | 0 | 0 | 0 | 2 | 0 | $\mathbf{2}$ |
| TOTAL ACRES: | FIRES | 0 | 0 | 0 | 0 | 46 | 0 | $\mathbf{4 6}$ |
|  | ACRES | 0 | 0 | 0 | 0 | 8,657 | 0 | $\mathbf{8 , 6 5 7}$ |
|  | $\mathbf{9}$ | $\mathbf{9}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{9 9}$ | $\mathbf{1 3}$ | $\mathbf{1 3 0}$ |  |
|  | $\mathbf{2}$ | $\mathbf{3 8 , 4 9 3}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{1 8 , 5 1 5}$ | $\mathbf{5 , 7 1 6}$ | $\mathbf{6 2 , 7 2 7}$ |  |

Fires and Acres Year-to-Date (by Protection):

| Area |  | BIA | BLM | FWS | NPS | ST/OT | USFS | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alaska Area | FIRES | 0 | 141 | 0 | 0 | 174 | 17 | 332 |
|  | ACRES | 0 | 162,342 | 0 | 0 | 79,589 | 5 | 241,936 |
| Northwest Area | FIRES | 71 | 35 | 7 | 3 | 393 | 112 | 621 |
|  | ACRES | 3,148 | 19,370 | 83 | 1 | 1,684 | 867 | 25,154 |
| Northern California Area | FIRES | 4 | 6 | 2 | 2 | 815 | 85 | 914 |
|  | ACRES | 7 | 24 | 0 | 1 | 7,232 | 824 | 8,088 |
| Southern California Area | FIRES | 8 | 41 | 2 | 4 | 1,219 | 98 | 1,372 |
|  | ACRES | 17 | 70 | 2,500 | 5 | 9,725 | 813 | 13,130 |
| Northern Rockies Area | FIRES | 480 | 8 | 10 | 1 | 188 | 60 | 747 |
|  | ACRES | 4,831 | 126 | 1,424 | 0 | 6,011 | 677 | 13,070 |
| Great Basin Area | FIRES | 8 | 114 | 0 | 9 | 147 | 40 | 318 |
|  | ACRES | 8 | 1,257 | 0 | 8 | 2,216 | 2,044 | 5,533 |
| Southwest Area | FIRES | 337 | 98 | 7 | 10 | 293 | 266 | 1,011 |
|  | ACRES | 1,926 | 4,655 | 10 | 1,128 | 13,472 | 109,346 | 130,538 |
| Rocky Mountain Area | FIRES | 82 | 63 | 1 | 4 | 146 | 71 | 367 |
|  | ACRES | 784 | 131 | 5,048 | 0 | 12,938 | 3,957 | 22,858 |
| Eastern Area | FIRES | 300 | 0 | 8 | 27 | 2,280 | 231 | 2,846 |
|  | ACRES | 569 | 0 | 52 | 520 | 21,667 | 5,537 | 28,345 |
| Southern Area | FIRES | 184 | 0 | 24 | 35 | 9,530 | 193 | 9,966 |
|  | ACRES | 22,128 | 0 | 846 | 1,898 | 147,556 | 12,890 | 185,319 |
| TOTAL FIRES: |  | 1,474 | 506 | 61 | 95 | 15,185 | 1,173 | 18,494 |
| TOTAL ACRES: |  | 33,419 | 187,975 | 9,963 | 3,561 | 302,091 | 136,962 | 673,973 |


| Ten Year Average Fires (2009 - 2018 as of today) | 29,181 |
| :--- | :---: |
| Ten Year Average Acres (2009 - 2018 as of today) | $1,921,825$ |

**Changes in some agency YTD acres reflect more accurate mapping or reporting adjustments.
***Additional wildfire information is available through the Geographic Areas at https://gacc.nifc.gov/

Canadian Fires and Hectares

| PROVINCES | FIRES <br> YESTERDAY | HECTARES <br> YESTERDAY | FIRES <br> YEAR-TO-DATE | HECTARES <br> YEAR-TO-DATE |
| :---: | :---: | :---: | :---: | :---: |
| BRITISH COLUMBIA | 7 | 146 | 396 | 11,287 |
| YUKON TERRITORY | 0 | 0 | 40 | 22,491 |
| ALBERTA | 1 | 0 | 682 | 803,394 |
| NORTHWEST TERRITORY | 3 | 204 | 43 | 4,528 |
| SASKATCHEWAN | 0 | 23 | 158 | 1,290 |
| MANITOBA | 0 | 0 | 140 | 25,415 |
| ONTARIO | 7 | 2,991 | 152 | 28,974 |
| QUEBEC | 1 | 0 | 105 | 5,645 |
| NEWFOUNDLAND | 0 | 0 | 56 | 90 |
| NEW BRUNSWICK | 0 | 0 | 120 | 166 |
| NOVA SCOTIA | 1 | 2 | 92 | 107 |
| PRINCE EDWARD ISLAND | 0 | 0 | 1 | 9 |
| NATIONAL PARKS | 0 | 0 | 22 | 81 |
| TOTALS | 20 | 3,366 | 2,007 | 903,473 |

${ }^{*} 1$ Hectare $=2.47$ Acres
Predictive Services Discussion: High pressure over Texas, New Mexico, Oklahoma, and Kansas will intensify and will allow for moisture to continue to stream northward into the country along the Continental Divide. Expect continued convection during the afternoon period. Low pressure over the Pacific Northwest will continue to bring precipitation to the region and to portions of the Northern Rockies. Temperatures in this area will be below average. A breezy southwesterly flow will be in place across the Great Basin and California. In Alaska, the strong high pressure ridge will remain firmly entrenched over the Kenai Peninsula and the Interior. Temperatures will be well above average, but convective activity will remain diminished.
http://www.predictiveservices.nifc.gov/outlooks/outlooks.htm

This Day in History is a brief summary of a powerful learning opportunity and is not intended to second guess or be judgmental of decisions and actions. Put yourself in the following situation as if you do not know what the outcome will be. What are the conditions? What are you thinking? What are YOU doing?

## "The afternoon of June 26, 1990, as I knelt beside a dead Perryville firefighter, I made a promise to the best of my ability to help end the needless fatalities, and alleviate the near misses, by focusing on training and operations pertinent to these goals." Paul Gleason from "LCES and Other Thoughts" published June 1991.

(Note: Gleason had used LCES with his crew the Zig Zag IHC for several years but it was the Dude Fire fatalities that became the catalyst for LCES to hit the mainstream.)
"LCES is just a re-focusing on the essential elements of the FIRE ORDERS. The systems view stresses the importance of the components working together. The LCES system is a result of analyzing fatalities and near misses for over 20 years of active fireline suppression duties. I believe that all firefighters should be given an interconnecting view of Lookout(s), Communications(s), Escape routes, and Safety zone(s)." ~ Paul Gleason
Gleason cites two types of hazards:

- Subjective hazards are those which one has direct control over (e.g., condition of the equipment, choices and decisions).
- Objective hazards are a natural part of the environment (e.g., lightning, fire-weakened timber, rolling rocks, entrapment). They cannot be eliminated and one must either 1) not go into the environment where they exist or 2 ) adhere to a procedure where safety from the hazard is assured.
Gleason suggested that LCES is the key to this safe procedure in an environment of hazards and that LCES must be established AND communicated to ALL firefighters BEFORE it is needed.

Lookouts need to be in a position where both the objective hazard and the firefighters can be seen. Lookouts must be trained to observe the wildand fire environment and to recognize and anticipate changes in fire behavior. The whole idea is when the objective hazard becomes a danger the Lookout relays the information to the firefighters so they can reposition to the safety zone or safer area.

- What are the objective hazards that a Lookout is looking for?
- What are the tools and skills that a good Lookout should possess?
- Discuss how your crew can utilize a roving Lookout. Communications is the vehicle which delivers the message to the firefighters, alerting them of the approaching hazard. Communications must be prompt and clear.
- Radios are limited and it is vital to have at least one back up way to quickly Communicate information. Identify some options that your crew/team can use in this situation.
- Discuss how each person on your crew/team has a role and responsibility in recognizing and communicating hazards.
- Using page ix in your IRPG, discuss the 5 Communication responsibilities every firefighter has. Identify how your crew/team will translate these ideas into action when working in the field.

Escape routes are the paths firefighters take from their current location, in which they are exposed to danger, to an area free from danger. Unlike the other components, there must always be more than one Escape route available to the firefighter. With their effectiveness continually changing, Escape routes are probably the most elusive component of LCES. As the firefighter works along the fire perimeter, fatigue and spatial separation increases the time required to reach the safety zone. On indirect or parallel firelines, situations become compounded. Unless Escape routes have been identified ahead, as well as behind, a firefighter's retreat may not be possible.

- Using your IRPG page 7, discuss qualities of effective Escape routes.
S
afety Zones are planned locations where firefighters may find refuge from danger and where no fire shelter is needed. Fireline intensity and Safety zone topography determine its effectiveness.
- Activity: Using your IRPG page 8, mark off a Safety zone that would be effective for the area you are currently in or often work in. Being able to see just how big a Safety zone will have to be to become effective can help us chose one quicker in the field. (FYI: The Safety zone guidelines in the IRPG are for no-wind and no-slope conditions. Make necessary adjustments in size to reflect realistic slope and wind.


[^0]:    * Rock, Santa Clara Unit, Cal Fire. Seven miles west of Patterson, CA. Tall grass. Moderate fire behavior. Infrastructure threatened.

