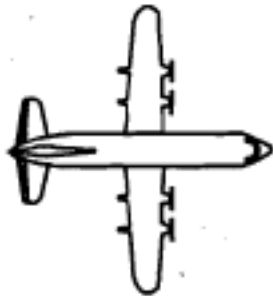


# PNW INTERAGENCY PREPAREDNESS PLAN



**USDA FOREST SERVICE  
USDI BUREAU OF LAND MANAGEMENT  
USDI BUREAU OF INDIAN AFFAIRS  
USDI PARK SERVICE  
USDI FISH AND WILDLIFE SERVICE**



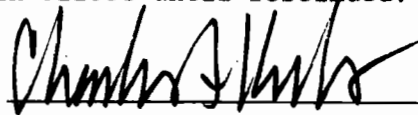
PNW INTERAGENCY PREPAREDNESS PLAN

NORTHWEST COORDINATION CENTER

PORTLAND, OREGON

This plan is approved and will remain in effect until rescinded.

USDA Forest Service, Region 6



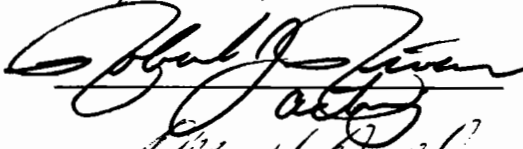
4/26/91  
Date

USDI Bureau of Indian Affairs



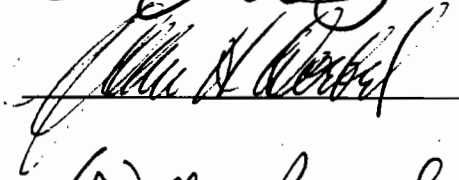
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USDI Bureau of Land Management



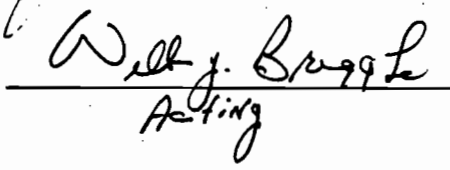
5/13/91  
Date

USDI Fish and Wildlife Service



5/17/91  
Date

USDI National Park Service

  
Acting

5/16/91  
Date



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# *EXECUTIVE SUMMARY*





**PNW INTERAGENCY PREPAREDNESS PLAN**

**NORTHWEST COORDINATION CENTER**

**PORTLAND, OREGON**

**EXECUTIVE SUMMARY**

**USDA Forest Service, Region 6**

**USDI Bureau of Land Management**

**USDI Bureau of Indian Affairs**

**USDI National Park Service**

**USDI Fish and Wildlife Service**



## PNW INTERAGENCY PREPAREDNESS PLAN

### EXECUTIVE SUMMARY

Following the inter-agency review of the Yellowstone Area fires of 1988, a requirement that agencies develop Preparedness Plans was adopted. The purpose of these Plans is to ensure timely recognition of approaching critical fire situations, establish a process for analyzing situations and establishing priorities, and for implementing actions to respond to these situations.

The objective of this Plan is to provide information adequate to make a decision that provides a high probability of attaining an appropriate level of preparedness. This Plan covers READINESS for a potential wildfire incident(s), or an active incident(s), that endanger life, property or natural resources under jurisdiction of federal wildland fire protection agencies in the States of Oregon and Washington.

A process has been developed to compute a Preparedness Level (PL) on a scale of 1.0 to 5.9 to ordinate the level of readiness. At each Preparedness Level, a recommended set of actions is provided. This Plan documents actions to be considered by these Federal agencies in the states of Washington and Oregon; USDA Forest Service, USDI Bureau of Land Management, USDI Bureau of Indian Affairs, USDI Park Service, and the USDI Fish and Wildlife Service.

Though this plan does not cover actions taken by State wildland fire protection agencies, it provides for coordination with them at each preparedness level. This Preparedness Plan only addresses wild and prescribed fire. It may be expanded in the future to cover other types of incidents such as floods, earthquakes, and volcanos.

This Plan defines a process whereby a Preparedness Level will be determined for the current day as well as for 3, 10, and 30 day periods of time in the future. It further defines the recommended actions to be considered for these time periods.

To provide for valid information to support this decision, it will be the responsibility of each participating federal agency to submit accurate situation reports each day, to communicate promptly to the NWC Manager situations and concerns needing special consideration in the determination of the PL, and to support actions proposed or implemented under this plan.

### DETERMINATION OF PREPAREDNESS LEVELS

A Preparedness Level for the Northwest Area (Oregon & Washington) will be determined by the Northwest Coordination Center (NWC) Manager and transmitted to all agencies covered by this plan. This Preparedness Level is computed for the current day as well as the three future time periods defined. As primary input to this decision, an Initial Preparedness Level (IPL) will be determined using the objective determination of the following three separate items described on the next page.

- 1) A measure of Risk determined by combining prescribed fire and wildfire activity. This measure is used to measure a real and potential need for suppression resources.
- 2) A measure of concern for availability of Type II crews is used as an indicator of overall fire suppression resource availability. For every Type II crew available, it is expected that 7 overhead will be needed based on historical trends.
- 3) A measure of fire season severity as indicated using the historical energy release component (ERC) to determine the dryness of larger fuels and a measure of fire intensity. A Severity Projection Index (SPI) Table provides probabilities the ERC will be at various levels in the future given its level today. This will also yield indications of the progression of drought or wet conditions based on historical conditions by time period.

The following table displays these three measures and the Initial Preparedness Level.

MATRIX FOR DETERMINATION IF INITIAL PREPAREDNESS LEVEL

|                                       | RISK IS LOW          | RISK IS MEDIUM       | RISK IS HIGH         |
|---------------------------------------|----------------------|----------------------|----------------------|
| CONCERN FOR TYPE II CREW AVAILABILITY | SEVERITY PROJ. INDEX | SEVERITY PROJ. INDEX | SEVERITY PROJ. INDEX |
|                                       | LOW <-----> HIGH     | LOW <-----> HIGH     | LOW <-----> HIGH     |
| HIGH                                  | 4                    | 5                    | 5                    |
| :                                     | 3                    | 4                    | 4                    |
| :                                     | 2                    | 3                    | 3                    |
| :                                     | 1.5                  | 2                    | 2                    |
| :                                     |                      |                      |                      |
| :                                     |                      |                      |                      |
| :                                     |                      |                      |                      |
| LOW                                   | 1.0                  | 1.3                  | 1.7                  |

The determination of the final preparedness level is a management decision and the responsibility of the Northwest Coordination Center (NWC) Manager or designated acting and needs to consider the following:

- 4) This decision must consider the following subjective criteria as a minimum:
  - a) The 3, 10, and 30 day weather forecasts and projections.
  - b) Additional risk of wildfire occurrence or existing wildfire activity not measured by the Initial Preparedness Level. This could include wildfire activity both Nationally and Regionally.
  - c) Social/political considerations.

**ACTIONS TO BE CONSIDERED AT EACH PREPAREDNESS LEVEL**

Actions to be considered are grouped into three categories as follows:

- Actions to reduce large fire workload.
- Actions to increase large fire suppression capability.
- Actions to inform and involve agency officials, industry and the public.

These actions will be considered at each of the benchmark time interval of 3 days, 10 days, and 30 days into the future for each preparedness level. The following matrices address these actions in bullet statement form.

Actions to Be Considered Based On 3 Day Outlook

|  | <u>Preparedness Level</u> |   |   |   |    |
|--|---------------------------|---|---|---|----|
|  | 1                         | 2 | 3 | 4 | 5+ |
| <u>Inform and Involve</u>  |                           |   |   |   |    |
| - Notify agency cooperators of all fires and locations   | X                         | X | X | X | X  |
| - Local Units to inform States of possible need for assistance.  | X                         | X | X | X | X  |
| - Notify agency cooperators of key exports and resource commitments.   |                           |   | X | X | X  |
| - PIO's contacted and kept informed of the fire situation  |                           |   | X | X | X  |
| - Brief Line Officers daily and more often if necessary on resources available and critical needs            |                           |   | X | X | X  |
| - Press releases on fire situation and prevention measures   |                           |   | X | X | X  |
| - Consider ordering a PIO for the coordination center  |                           |   |   | X | X  |
| - NWC to contact States of possible need for resources such as the National Guard, crews, etc.               |                           |   |   | X | X  |
| <u>Enhance Initial Attack Capability</u>   |                           |   |   |   |    |
| - Maintain availability status of suppression resources  | X                         | X | X | X | X  |
| - Local jurisdictions reaffirm minimum initial attack and first reinforcement needs which must be maintained |                           |   | X | X | X  |
| - Consider prepositioning resources  |                           |   | X | X | X  |
| - Consider extending staff hours for shared resources  |                           |   |   | X | X  |
| <u>Enhance Large Fire Suppression Capability</u>   |                           |   |   |   |    |
| - Maintain availability status of suppression resources  | X                         | X | X | X | X  |
| - Establish State/Regional level Multi-Agency Coordinating Group (MAC) be established as needed              |                           |   | X | X | X  |
| - Review staging center plans and agreements   |                           |   | X | X | X  |
| - Recommend to Line Officers completion of mopup on planned prescribed fires                                 |                           |   | X | X | X  |
| - Recommend to Line Officers no new planned prescribed fire ignitions  |                           |   | X | X | X  |
| - Recommend to line officers to suppress all new candidate prescribed natural fires                          |                           |   | X | X | X  |
| - Recommend to line officers to consider suppression of existing natural prescribed fires                    |                           |   | X | X | X  |

Actions to Be Considered Based On 10 Day Outlook

|  | <u>Preparedness Level</u> |          |          |          |           |
|--|---------------------------|----------|----------|----------|-----------|
|  | <u>1</u>                  | <u>2</u> | <u>3</u> | <u>4</u> | <u>5+</u> |
| <u>Inform and Involve</u>  |                           |          |          |          |           |
| - NWC to brief States of possible need for resources   |                           |          |          | X        | X         |
| - Brief forest industry of situation and possible needs  |                           |          |          | X        | X         |
| - Consider letter of commitment to fire suppression responsibilities to field from Line Officers |                           |          |          | X        | X         |
| - Press releases on fire situation and prevention measures                                       |                           |          |          | X        | X         |
| - Brief Line Officers on resources available and critical needs                                  |                           |          |          | X        | X         |

Enhance Initial Attack Capability

|  |   |   |   |   |   |
|--|---|---|---|---|---|
| - Alert NIFCC of possible resource need  | X | X | X | X | X |
| - Local jurisdictions reaffirm minimum initial attack and first reinforcement needs which must be maintained |   |   | X | X | X |
| - Identify possible local resources for suppression use  |   |   | X | X | X |
| - Consider hiring additional resources (AD crews, engines, tractors, etc.)                                   |   |   | X | X | X |

Enhance Large Fire Suppression Capability

|   |  |  |  |   |   |
|---|--|--|--|---|---|
| - Alert NIFCC of possible resource needs including military and Canadian resources  |  |  |  | X | X |
| - Recommend to Line Officers no new planned Rx fire ignitions                       |  |  |  | X | X |
| - Recommend to line officers to suppress all new candidate prescribed natural fires |  |  |  | X | X |
| - Recommend Emergency Fire Fighter training program begin                           |  |  |  | X | X |

Actions to Be Considered Based On 30 Day Outlook

|  | <u>Preparedness Level</u> |          |          |          |           |
|--|---------------------------|----------|----------|----------|-----------|
|  | <u>1</u>                  | <u>2</u> | <u>3</u> | <u>4</u> | <u>5+</u> |
| <u>Inform and Involve</u>  |                           |          |          |          |           |
| - Review severity reports, Palmer Drought Index, reports from NIFCC, Meta-fire, etc. | X                         | X        | X        | X        | X         |
| <u>Enhance Initial Attack Capability</u>   |                           |          |          |          |           |
| - Analyze need and request additional emergency funding                              |                           |          |          | X        | X         |
| <u>Enhance Large Fire Suppression Capability</u>                                     |                           |          |          |          |           |
| - Identify need for an Emergency Fire Fighter training and recruitment program       |                           |          |          | X        | X         |
| - Recommend to line officers to suppress all new candidate prescribed natural fires  |                           |          |          |          | X         |

**MONITORING AND VERIFICATION OF PREPAREDNESS LEVEL**

A study was done to determine what the IPL would have been during 1988 and 1989 from June 6 through September 21. The following two pages show graphs of the results and the following table summarizes results.

|      | 1988 INITIAL<br>PREPAREDNESS LEVEL |     |     |     |    | 1989 INITIAL<br>PREPAREDNESS LEVEL |     |    |    |    | 88-89 AVERAGE INITIAL<br>PREPAREDNESS LEVEL |     |     |     |    |
|------|------------------------------------|-----|-----|-----|----|------------------------------------|-----|----|----|----|---|-----|-----|-----|----|
|      | 1                                  | 2   | 3   | 4   | 5+ | 1                                  | 2   | 3  | 4  | 5+ | 1   | 2   | 3   | 4   | 5+ |
|      | <-- Days per Month -->             |     |     |     |    | <-- Days per Month -->             |     |    |    |    | <-- Days per Month -->                      |     |     |     |    |
| JUNE | 16                                 | 6   | 2   | 1   | 0  | 11                                 | 11  | 3  | 0  | 0  | 14  | 9   | 3   | 1   | 0  |
| JULY | 15                                 | 9   | 1   | 5   | 1  | 19                                 | 7   | 0  | 4  | 1  | 17  | 8   | 1   | 5   | 1  |
| AUG  | 0                                  | 13  | 8   | 3   | 7  | 15                                 | 7   | 7  | 1  | 1  | 8   | 10  | 8   | 2   | 4  |
| SEPT | 3                                  | 1   | 6   | 9   | 2  | 19                                 | 2   | 0  | 0  | 0  | 11  | 2   | 3   | 5   | 1  |
| SUM  | 34                                 | 29  | 17  | 18  | 10 | 64                                 | 27  | 10 | 5  | 2  | 50  | 29  | 15  | 13  | 6  |
|      | 31%                                | 27% | 16% | 17% | 9% | 59%                                | 25% | 9% | 5% | 2% | 45%   | 26% | 13% | 11% | 5% |

Cumulative Percent - 45% 71% 84% 95% 100%

For the two year period, the percents look reasonable. In June, the days when the IPL was 3, 4 or 5 were a result of high prescribed fire activity but this activity lasted only 2-3 days in a row. All the days in July - September when the IPL was 3, 4, or 5 were a result of high wildfire activity within or outside the Region. A complete listing of the results with graphs is contained in Appendix E.

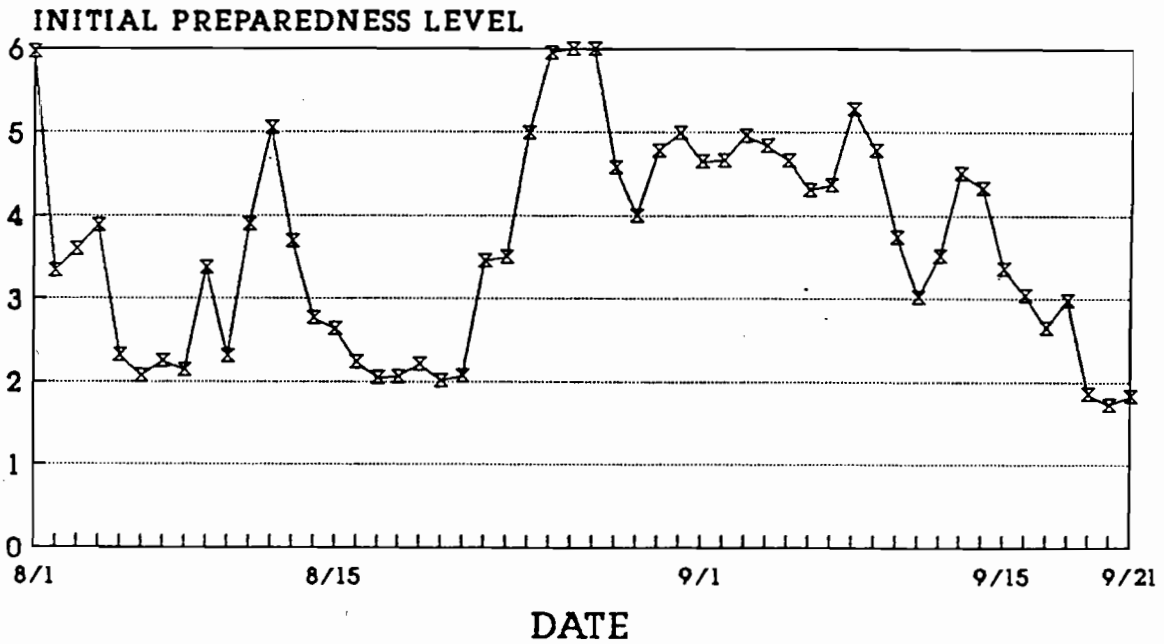
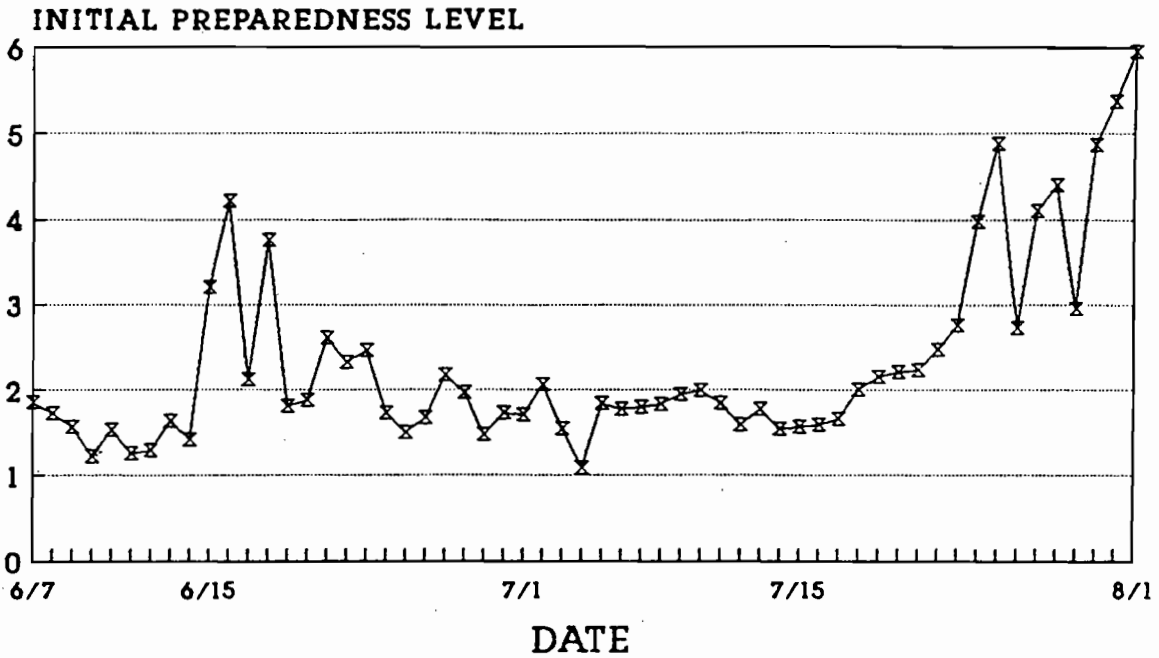
The NWC will compute daily the observed preparedness level and compare it to predicted preparedness levels to provide a feedback loop to the predictive system described in this report. This should occur daily and records kept for a period of time to allow for long term analysis. The PNWCG will provide for annual review and updating of this plan.

Refer to pages 45-59 for graphs comparing IPL input variables with the IPL using 1988 and 1989 fire season data.



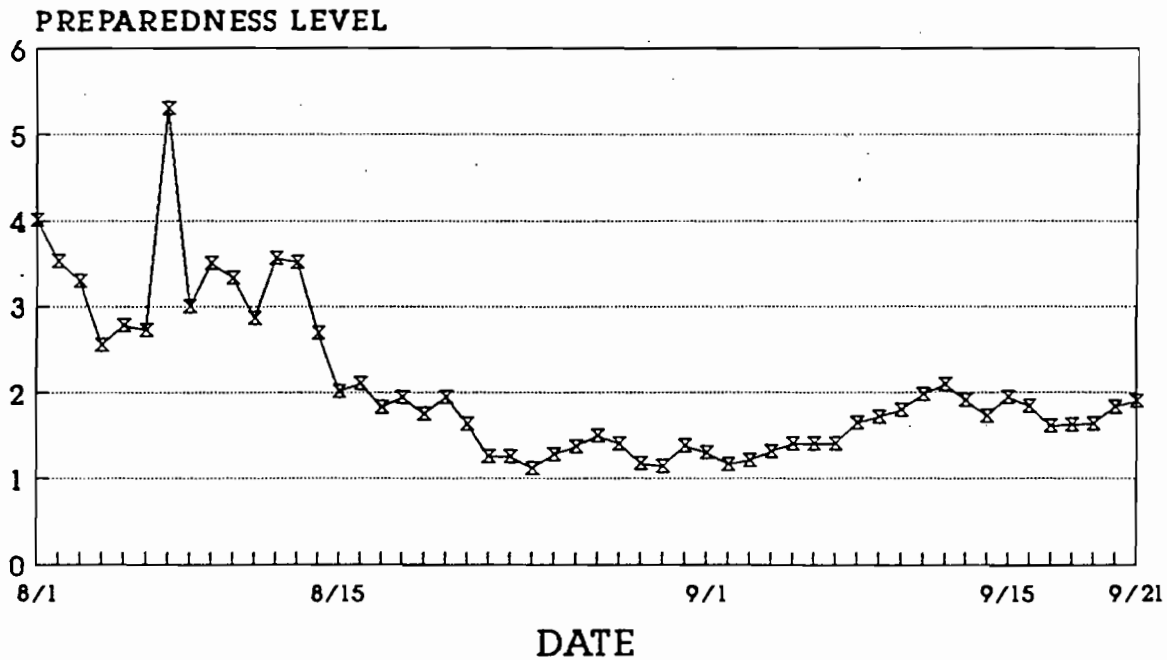
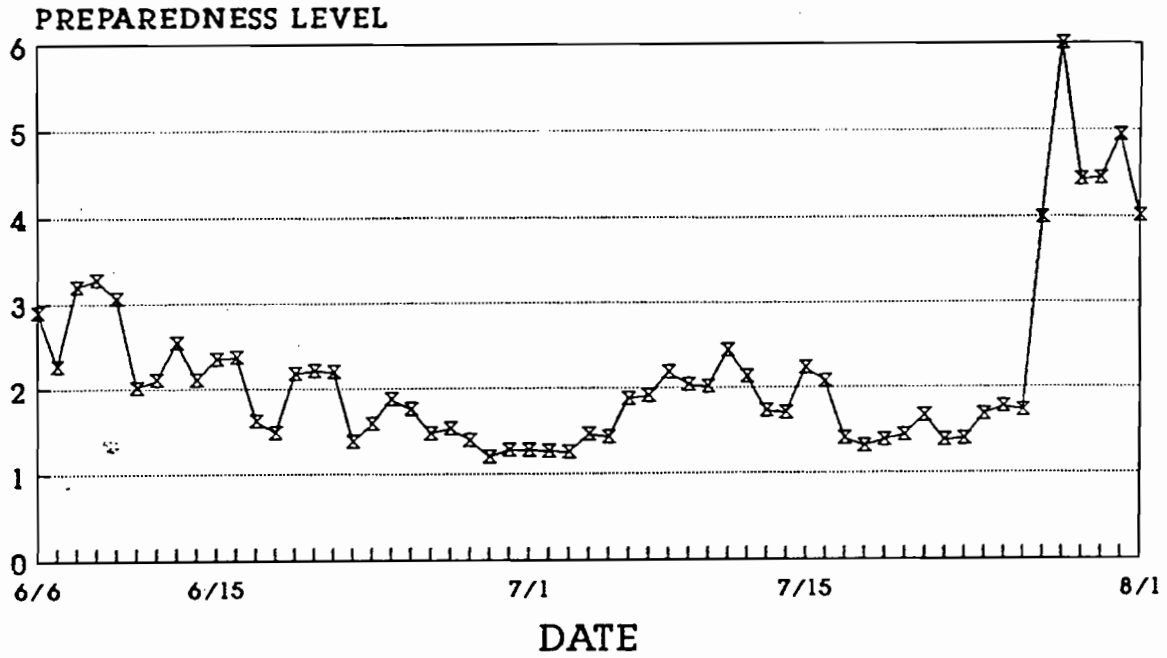


# INITIAL PREPAREDNESS LEVEL USING 1988 DAILY DATA



—x— PREP LEVEL-ALL RISK

# INITIAL PREPAREDNESS LEVEL USING 1989 DAILY DATA



—x— PRED LEVEL-ALL RISK

*DETAILED PREPAREDNESS  
PLAN FOR THE PACIFIC NW*



## PNW INTERAGENCY PREPAREDNESS PLAN

### INTRODUCTION

Following the inter-agency review of the Yellowstone Area fires of 1988, a requirement that agencies develop Preparedness Plans was adopted. The purpose of these Plans is to ensure timely recognition of approaching critical fire situations, establish a process for analyzing situations and establishing priorities, and for implementing actions to respond to these situations.

The objective of this Plan is to provide information adequate to make a decision that provides a high probability of attaining an appropriate level of preparedness. This Plan covers READINESS for a potential wildfire incident(s), or an active incident(s), that endanger life, property or natural resources under jurisdiction of federal wildland fire protection agencies in the States of Oregon and Washington.

A process has been developed to compute a Preparedness Level on a scale of 1.0 to 5.9 to ordinate the level of readiness. At each Preparedness Level, a recommended set of actions is provided. This Plan documents actions to be considered by these Federal agencies in the states of Washington and Oregon; USDA Forest Service, USDI Bureau of Land Management, USDI Bureau of Indian Affairs, USDI Park Service, and the USDI Fish and Wildlife Service.

Though this Plan does not cover actions taken by State wildland fire protection agencies, it provides for coordination with them at each preparedness level. This Preparedness Plan only addresses wild and prescribed fire. It may be expanded in the future to cover other types of incidents such as floods, earthquakes, and volcanos.

The Plan defines a process whereby a Preparedness Level will be determined for the current day as well as for 3, 10, and 30 day periods of time in the future. It further defines the recommended actions to be considered for these time periods.

To provide for valid information to support this decision, it will be the responsibility of each participating federal agency to submit accurate situation reports each day, to communicate promptly to the NWC Manager situations and concerns needing special consideration in the determination of the PL, and to support actions proposed or implemented under this plan.

### PREPAREDNESS ZONES

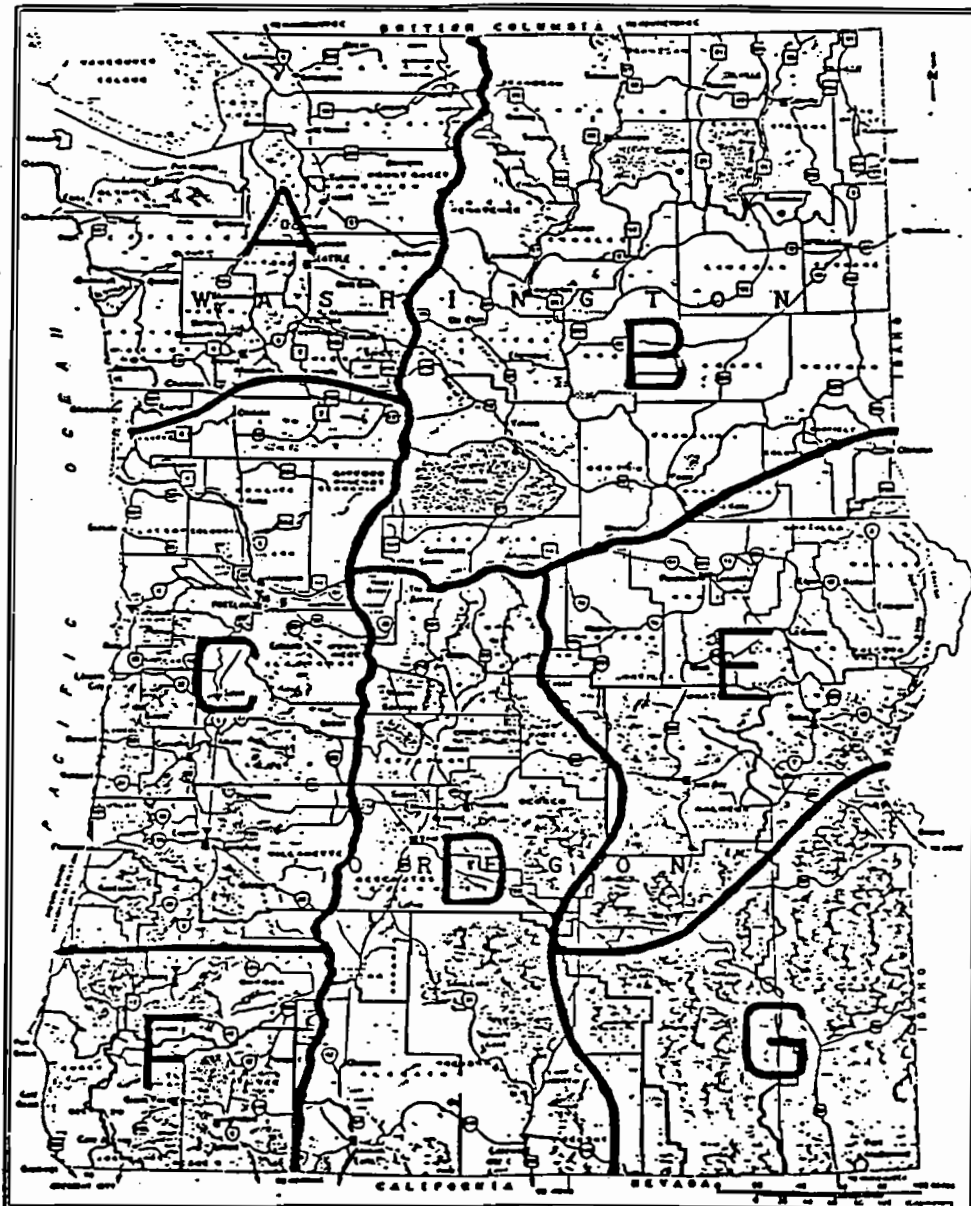
The map on the next page defines the seven preparedness zones in the region (States of Washington and Oregon). They are denoted by letters A through G.

### DETERMINATION OF PREPAREDNESS LEVELS

A Preparedness Level (PL) for the Northwest Area (Oregon & Washington) will be determined by the Northwest Coordination Center (NWC) Manager and transmitted to all agencies covered by this plan. This Preparedness Level is computed for the current day as well as the three future time periods defined. As primary input to this decision, an Initial Preparedness Level (IPL) will be determined using the objective determination of the following three separate items described below.

- 1) A measure of Risk determined by combining prescribed fire and wildfire activity. This measure is used to measure a real and potential need for suppression resources.
- 2) A measure of concern for availability of Type II crews is used as an indicator of overall fire suppression resource availability. For every Type II crew available, it is expected that 7 overhead are needed based on historical trends.
- 3) A measure of fire season severity as indicated using the historical energy release component (ERC) to determine the dryness of larger fuels and a measure of fire intensity. A Severity Projection Index (SPI) Table provides probabilities the ERC will be at various levels in the future given its level today. This will also yield indications of the progression of drought or wet conditions based on historical conditions by time period.

WASHINGTON AND OREGON INTER-AGENCY FIRE PREPAREDNESS ZONES



The determination of the final preparedness level is a management decision made by the Northwest Coordination Center (NWC) Manager or designated acting and needs to consider the following:

- 4) This decision must consider the following subjective criteria as a minimum:
  - a) The 3, 10, and 30 day weather forecasts and projections.
  - b) Additional risk of wildfire occurrence or existing wildfire activity not measured by the Initial Preparedness Level. This could include wildfire activity both Nationally and Regionally.
  - c) Social/political considerations.

The process inputs and the decision may be documented on forms described in Appendix A of this report.

#### HOW THE INITIAL PREPAREDNESS LEVEL (IPL) IS DETERMINED

All agencies will submit an accurate daily situation report that includes the number of prescribed fires currently active. All agencies will also submit via the situation report the number of Type II crews available.

#### Expected Risk for Prescribed Fire and Wildfire Activity

For each outlook period (3, 10, & 30 days), the expected number of prescribed fires, wildfires, and daily acres burned will be determined by the Coordination Center. This can be done using the situation report and/or graphs of historical relationships (Appendix B). To determine the relative measure of Risk from prescribed fire and wildfire activity, use the following formula:

$$\text{RISK} = (\text{Number of Prescribed Fires}) + (\text{Number of Wildfires}) \\ + (\text{A Calibration Factor})$$

The calibration factor has been determined experimently using daily data from 1988 and 1989. It is meant to reflect additional risk from uncontrolled wildfires and is equal to one-hundredth (.01) times the sum of the acres burned for the two previous days.

In general, this measure can be considered Low, Medium or High if the following criteria are met.

- LOW - RISK is 39 or less
- MEDIUM - RISK is between 40 and 79
- HIGH - RISK is between 80 and 120.

#### Concern for Availability of Type II Crews

For each outlook period (3, 10, & 30 days), the expected number of Type II crews available will be estimated. Use the situation report and the worksheet in appendix A to modify these numbers to reflect seasonal fluctuations, weekend and holiday unavailability, attrition, out-of-Region needs, and possible increases due to importing of crews to the region.

To determine the relative measure of concern for Type II crew availability, use the following categories:

- HIGH CONCERN - 15 or less Type II crews available
- MEDIUM CONCERN - Between 16 and 30 Type II crews available
- LOW CONCERN - Between 31 and 45 Type II crews available

Expected Severity Projection Index (SPI)

Utilize AFFIRMS to determine today's average energy release component (ERC) value for each preparedness zone, A-G, in the region. The Severity Projection Index Table provides an estimate of the probability the ERC will be Low, Medium, or High 3 days, 10 days, and 30 days from today. It does this for 10 day time periods through the season for each preparedness zone using historical trends, not future weather forecasts. The effect of future weather forecasts will be considered later in the decision process.

Below is an example of the Severity Projection Index Table. It is for Area A and the time period August 1-10. Weather data from four weather stations from 1970 - 1989 was used to determine the table values. If today's average ERC was 11, then it would be in the low category. The first table tells that that in the past when the ERC was low today, there were 83 times in was also a low 3 days from today and there were 23 days when it was medium 3 days from now. There was not time when it was low today and high 3 days from today. Hence the probability of a low ERC 3 days from now is .78 and of a medium 3 days from now is .22. The NWC will utilize this type of information to determine an estimate of the ERC for each preparedness zone.

FREQ/PROB TABLE - ERC - 3 DAY

```

*****
*           * HISTORICALLY OBSERVED PERIOD 8/ 1 - 8/10 *
* TODAY'S   *   LOW      MED      HIGH      *
*   ERC     *   0- 22   23- 44   45-999   TOTAL  AVG.  MAX. *
*****
*           * --FREQUENCY--
* LOW  0- 22 *   83      23      0      106   16   32 *
* MED  23- 44 *    9      79      0      88   28   37 *
* HIGH 45-999 *    0      0      0      0    0    0 *
* TOTAL *   92      102     0      194
*****
*           * --PROBABILITY--
* LOW  0- 22 *   .783   .217   .000
* MED  23- 44 *   .102   .898   .000
* HIGH 45-999 *   .000   .000   .000
*****

```

The following tables provide similar information but for 10 days from today and 30 days from today. Notice that they also give the average ERC and the maximum ERC 3, 10, and 30 days out given it is Low, Medium, or High today.



FREQ/PROB TABLE - ERC - 10 DAY

```

*****
*           * HISTORICALLY OBSERVED PERIOD 8/ 1 - 8/10 *
*   TODAYS *   LOW   MED   HIGH   *
*   ERC     *   0- 22  23- 44  45-999  TOTAL  AVG.  MAX. *
*****
*           * --FREQUENCY-- *
* LOW   0- 22 *   84    25    0    109    17    35 *
* MED   23- 44 *   39    49    0    88    23    38 *
* HIGH  45-999 *    0     0    0     0     0     0 *
* TOTAL *   123    74    0    197 *
*****
*           * --PROBABILITY-- *
* LOW   0- 22 *   .771   .229   .000 *
* MED   23- 44 *   .443   .557   .000 *
* HIGH  45-999 *   .000   .000   .000 *
*****

```

FREQ/PROB TABLE - ERC - 30 DAY

```

*****
*           * HISTORICALLY OBSERVED PERIOD 8/ 1 - 8/10 *
*   TODAYS *   LOW   MED   HIGH   *
*   ERC     *   0- 22  23- 44  45-999  TOTAL  AVG.  MAX. *
*****
*           * --FREQUENCY-- *
* LOW   0- 22 *   95    14    0    109    12    36 *
* MED   23- 44 *   54    34    0    88    17    38 *
* HIGH  45-999 *    0     0    0     0     0     0 *
* TOTAL *   149    48    0    197 *
*****
*           * --PROBABILITY-- *
* LOW   0- 22 *   .872   .128   .000 *
* MED   23- 44 *   .614   .386   .000 *
* HIGH  45-999 *   .000   .000   .000 *
*****

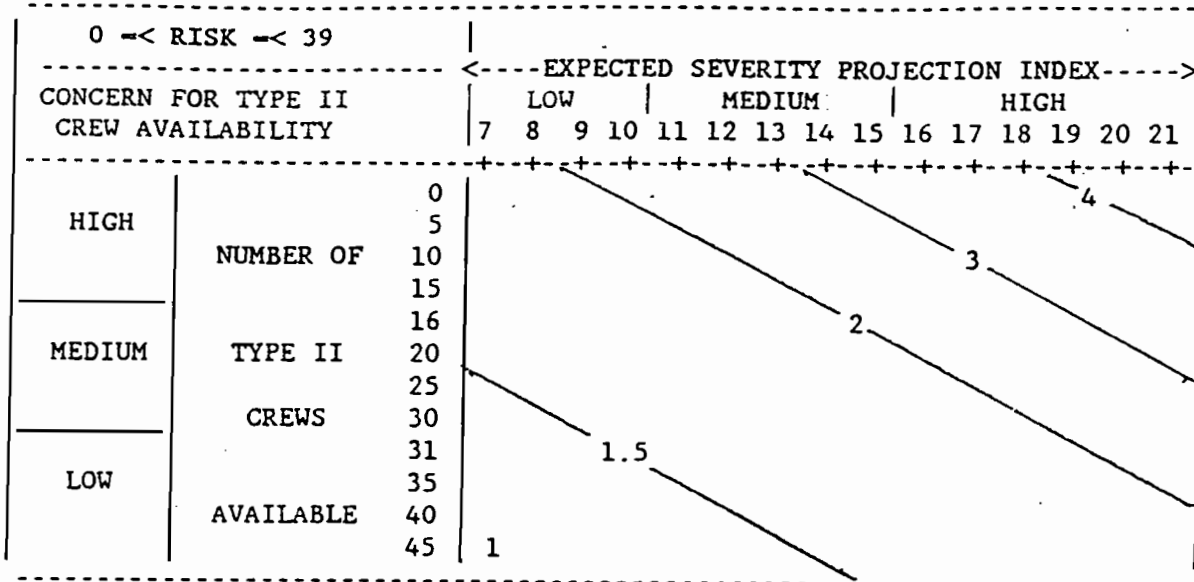
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By referring to the Severity Projection Index Table for each preparedness zone, the NWC can estimate the appropriate projected ERC category of Low, Medium, or High for each preparedness zone. To determine a weighted regional SPI assign a value of 1 to Low, 2 to Medium, or 3 to High. Add the numeric values obtained for all seven preparedness zones. For a relative measure of the expected SPI, use the following categories:

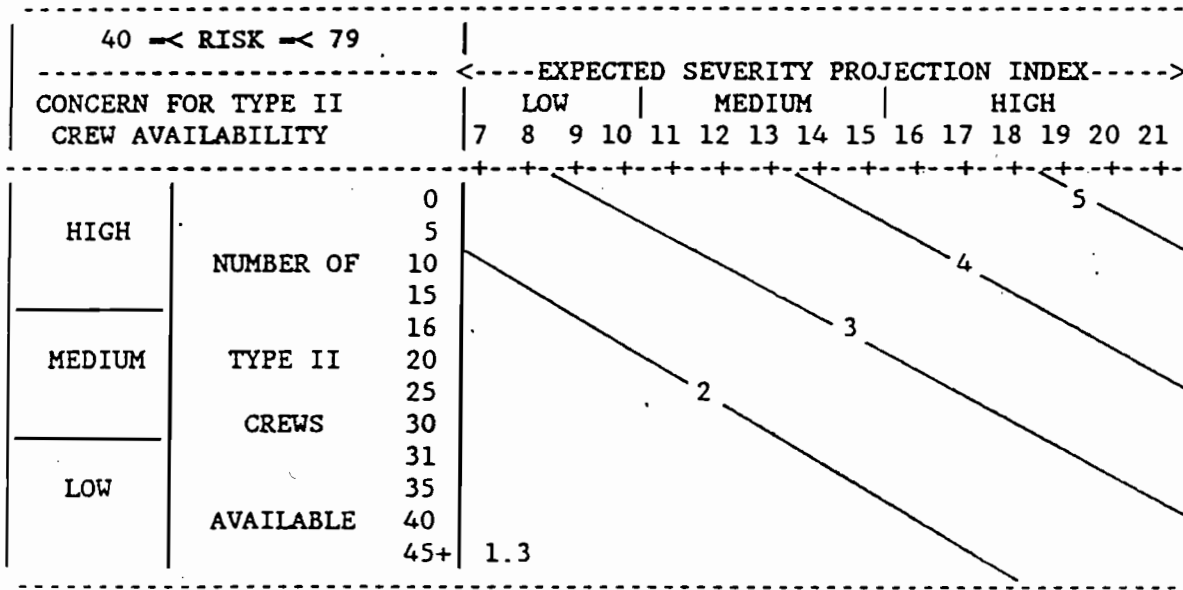
- LOW - The sum is 10 for less
- MEDIUM - The sum is 11 to 15
- HIGH - The sum is 16 to 21

MATRIX FOR DETERMINING INITIAL PREPAREDNESS LEVEL

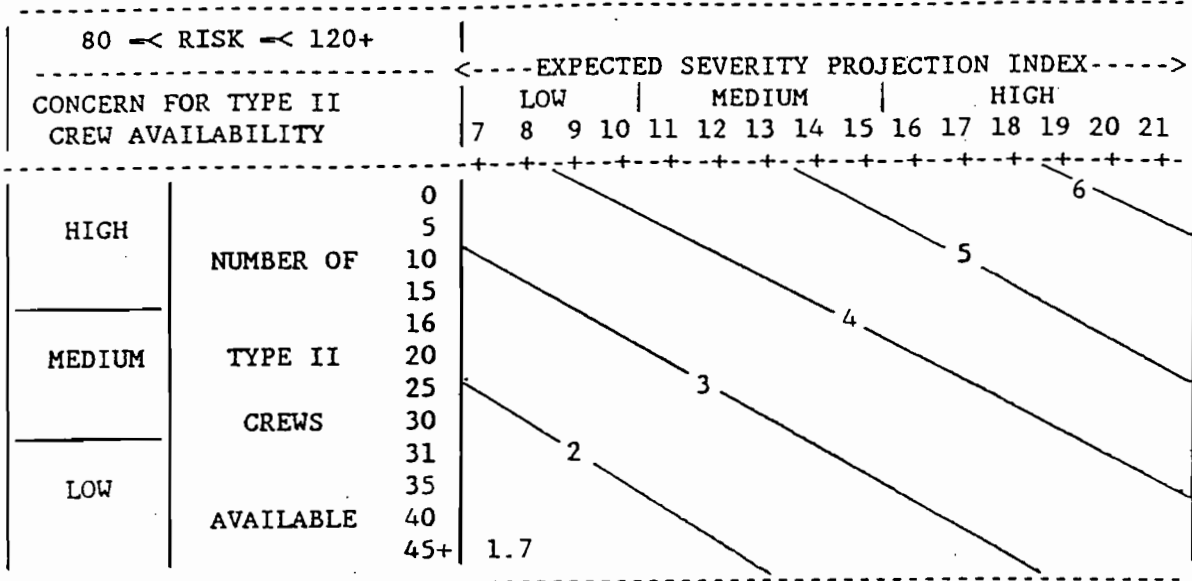
The following three matrices are used to determine the Initial Preparedness Level (IPL). Determine the expected RISK from prescribed fire and wildfire activity to determine which matrix to use. Determine the base IPL by plotting the expected number of Type II crews available (concern of Type II crew availability) and the expected Severity Projection Index. Utilize the formulas at the bottom of each matrix to obtain the IPL.



IF THE BASE IPL  $\geq$  2, THE IPL = (BASE IPL) + (RISK/40)  
 IF THE BASE IPL < 2, THE THE IPL = (BASE IPL) + (RISK/40)\*.3



IF THE BASE IPL  $\geq$  2, THE IPL = (BASE IPL) + ((RISK-40)/40)  
 IF THE BASE IPL < 2, THE THE IPL = (BASE IPL) + ((RISK-40)/10)\*.4



IF RISK<121 AND BASE IPL >= 2, THEN IPL = (BASE IPL) + ((RISK-80)/40)  
 IF RISK<121 AND BASE IPL < 2, THEN IPL IS (BASE IPL) + ((RISK-80)/40)\*.3  
 IF RISK>120 AND BASE IPL >= 2, THEN IPL = (BASE IPL) + 1  
 IF RISK >120 AND BASE IPL < 2, THEN IPL = (BASE IPL) + .3

The IPL can be determined mathematically. Two steps are required. First is the determination of a critical SPI, CSPI = .313(CREWS AVAILABLE)-.119(RISK)+9.01. If the SPI>=CSPI, the IPL = -.066(CREWS AVAILABLE)+.203(SPI)+.025(RISK)+.2486. If the SPI<CSPI, the IPL = -.0196(CREWS AVAILABLE)+.0617(SPI)+.008(RISK)+1.45. In both formulas, limit CREWS AVAILABLE to 45 and RISK to 120 if these values are exceeded.

**DETERMINATION OF THE FINAL PREPAREDNESS LEVEL**

As stated earlier, the determination of the final preparedness level is a management decision made by the Northwest Coordination Center (NWC) Manager or designated acting. This decision will need to consider the following subjective criteria as a minimum:

- a) The 3, 10, and 30 day weather forecasts and projections.
- b) Additional risk of wildfire occurrence or existing wildfire activity not measured by the Initial Preparedness Level. This could include wildfire activity both Nationally and Regionally.
- c) Social/political considerations.
- d) Other considerations

Item a can significantly change the Severity Projection Index. The NWC Manager should consider adjusting the Index according.

Item b can effect the RISK measure, particularly for wildfires burning elsewhere Nationally or within the Region on lands protected by agencies not covered by this plan. The NWC Manager should consider adjusting the Index according.

Item c and d are very subjective but need consideration. The NWC Manager should consider adjusting the final preparedness level to reflect these factors.

#### **MONITORING AND VERIFICATION OF PREPAREDNESS LEVEL**

The NWC will compute daily the observed preparedness level and compare it to predicted preparedness levels to provide a feedback loop to the predictive system described in this report. The NWC will also monitor the appropriateness of action taken to provide a feedback loop to the recommended actions section of this Plan. This should occur daily and records kept for a period of time to allow for long term analysis. The PNWCG will provide for annual review and updating of this plan.

#### **ACTIONS TO BE CONSIDERED AT EACH PREPAREDNESS LEVEL**

Actions to be considered are grouped into three categories as follows:

- Actions to reduce large fire workload.
- Actions to increase large fire suppression capability.
- Actions to inform and involve agency officials, industry and the public.

These actions will be considered at each of the benchmark time interval of 3 days, 10 days, and 30 days into the future for each preparedness level. The following matrices address these actions in bullet statement form.

Actions to Be Considered Based On 3 Day Outlook

|  | <u>Preparedness Level</u> |   |   |   |    |
|--|---------------------------|---|---|---|----|
|  | 1                         | 2 | 3 | 4 | 5+ |
| <u>Inform and Involve</u>  |                           |   |   |   |    |
| Notify agency cooperators of all fires and locations<br>WHO - Locally (neighbor to neighbor)   | X                         | X | X | X | X  |
| Local Units to inform States of possible need for assistance.<br>WHO - Area coordinators and dispatchers   | X                         | X | X | X | X  |
| Notify agency cooperators of key exports and resource commitments.<br>WHO - Northwest Coordination Center  |                           |   | X | X | X  |
| PIO's contacted and kept informed of the fire situation<br>WHO - All agencies  |                           |   | X | X | X  |
| Brief Line Officers daily and more often if necessary on resources available and critical needs<br>WHO - Local State and Area coordinators/dispatchers using established formats |                           |   | X | X | X  |
| Press releases on fire situation and prevention measures<br>WHO - State and Agency offices   |                           |   | X | X | X  |
| Consider ordering a PIO for the coordination center<br>WHO - Center Manager  |                           |   |   | X | X  |
| NWC to contact States of possible need for resources such as the National Guard, crews, etc.<br>WHO - Northwest Coordination Center  |                           |   |   | X | X  |
| <u>Enhance Initial Attack Capability</u>   |                           |   |   |   |    |
| Maintain availability status of suppression resources<br>WHO - All units using established formats and situation report  | X                         | X | X | X | X  |
| Local jurisdictions reaffirm minimum initial attack and first reinforcement needs which must be maintained<br>WHO - All local units  |                           |   | X | X | X  |
| Consider prepositioning resources<br>WHO - All units at appropriate level (move up)  |                           |   | X | X | X  |
| Consider extending staff hours for shared resources<br>WHO - Northwest Coordination Center   |                           |   |   | X | X  |

Actions to Be Considered Based On 3 Day Outlook (Con't)

|   | <u>Preparedness Level</u> |          |          |          |           |
|---|---------------------------|----------|----------|----------|-----------|
|   | <u>1</u>                  | <u>2</u> | <u>3</u> | <u>4</u> | <u>5+</u> |
| <u>Enhance Large Fire Suppression Capability</u>  |                           |          |          |          |           |
| Maintain availability status of suppression resources   | X                         | X        | X        | X        | X         |
| WHO - All units using established formats and situation report                                |                           |          |          |          |           |
| Establish State/Regional level Multi-Agency Coordinating Group (MAC) be established as needed |                           |          | X        | X        | X         |
| WHO - State and agency directors  |                           |          |          |          |           |
| Review staging center plans and agreements  |                           |          | X        | X        | X         |
| WHO - All units   |                           |          |          |          |           |
| Recommend to Line Officers completion of mopup on planned prescribed fires                    |                           |          | X        | X        | X         |
| WHO - Northwest Coordination Center and MAC via electronic mail                               |                           |          |          |          |           |
| Recommend to Line Officers no new planned prescribed fire ignitions                           |                           |          | X        | X        | X         |
| WHO - Northwest Coordination Center and MAC via electronic mail                               |                           |          |          |          |           |
| Recommend to line officers to suppress all new candidate prescribed natural fires             |                           |          | X        | X        | X         |
| WHO - Northwest Coordination Center and MAC via electronic mail                               |                           |          |          |          |           |
| Recommend to line officers to consider suppression of existing natural prescribed fires       |                           |          | X        | X        | X         |
| WHO - Northwest Coordination Center and MAC via electronic mail                               |                           |          |          |          |           |

Actions to Be Considered Based On 10 Day Outlook

|   | <u>Preparedness Level</u> |          |          |          |           |
|---|---------------------------|----------|----------|----------|-----------|
|   | <u>1</u>                  | <u>2</u> | <u>3</u> | <u>4</u> | <u>5+</u> |
| <u>Inform and Involve</u>   |                           |          |          |          |           |
| NWC to brief States of possible need for resources<br>WHO - Northwest Coordination Center   |                           |          |          | X        | X         |
| Brief forest industry of situation and possible needs<br>WHO - States at the proper level   |                           |          |          | X        | X         |
| Consider letter of commitment to fire suppression responsibilities to field from Line Officers<br>WHO - Federal and State unit line authority |                           |          |          | X        | X         |
| Press releases on fire situation and prevention measures<br>WHO - State and agency area offices   |                           |          |          | X        | X         |
| Brief Line Officers on resources available and critical needs<br>WHO - Northwest Coordination Center via electronic mail                      |                           |          |          | X        | X         |
| <u>Enhance Initial Attack Capability</u>  |                           |          |          |          |           |
| Alert NIFCC of possible resource need<br>WHO - Northwest Coordination Center  | X                         | X        | X        | X        | X         |
| Local jurisdictions reaffirm minimum initial attack and first reinforcement needs which must be maintained<br>WHO - All local units           |                           |          | X        | X        | X         |
| Identify possible local resources for suppression use<br>WHO - Local units  |                           |          | X        | X        | X         |
| Consider hiring additional resources (AD crews, engines, tractors, etc.)<br>WHO - Local units through approved processes                      |                           |          | X        | X        | X         |
| <u>Enhance Large Fire Suppression Capability</u>  |                           |          |          |          |           |
| Alert NIFCC of possible resource needs including military and Canadian resources<br>WHO - Northwest Coordination Center                       |                           |          |          | X        | X         |
| Recommend to Line Officers no new planned Rx fire ignitions<br>WHO - Northwest Coordination Center via electronic mail                        |                           |          |          | X        | X         |
| Recommend to line officers to suppress all new candidate prescribed natural fires<br>WHO - Northwest Coordination Center via electronic mail  |                           |          |          | X        | X         |
| Recommend Emergency Fire Fighter training program begin<br>WHO - Northwest Coordination Center via electronic mail                            |                           |          |          | X        | X         |

Actions to Be Considered Based On 30 Day Outlook

|  | <u>Preparedness Level</u> |          |          |          |           |
|--|---------------------------|----------|----------|----------|-----------|
|  | <u>1</u>                  | <u>2</u> | <u>3</u> | <u>4</u> | <u>5+</u> |
| <u>Inform and Involve</u>  |                           |          |          |          |           |
| Review severity reports, Palmer Drought Index, reports from NIFCC, Meta-fire, etc. | X                         | X        | X        | X        | X         |
| WHO - Northwest Coordination Center on monthly basis                               |                           |          |          |          |           |
| <br><u>Enhance Initial Attack Capability</u>                                       |                           |          |          |          |           |
| Analyze need and request additional emergency funding                              |                           |          |          | X        | X         |
| WHO - State and agency line authority  |                           |          |          |          |           |
| <br><u>Enhance Large Fire Suppression Capability</u>                               |                           |          |          |          |           |
| Identify need for an Emergency Fire Fighter training and recruitment program       |                           |          |          | X        | X         |
| WHO - Local unit level of all units  |                           |          |          |          |           |
| Recommend to line officers to suppress all new candidate prescribed natural fires  |                           |          |          |          | X         |
| WHO - Northwest Coordination Center via electronic mail                            |                           |          |          |          |           |



**Appendix A**

**Forms for Calculation of Preparedness Levels**



# APPENDIX A

## Forms for Calculating the Initial Preparedness Level



WORKSHEET FOR DETERMINATION OF PREPAREDNESS LEVEL FOR TODAY

Page 1 of 4

Prepared by \_\_\_\_\_ Date \_\_\_/\_\_\_/\_\_\_ Time \_\_\_\_\_

Expected Prescribed Fire and Wildfire Activity (RISK)

Use the situation report to get today's prescribed fire and wildfire activity.

| <u>Daily Number</u><br><u>Active Rx Burns</u> | <u>Number</u><br><u>Wildfires</u> | <u>Acres Burned Yesterday</u><br><u>and Today * .01</u> |                    |       |
|---|-----------------------------------|---|--------------------|-------|
| Area A = _____                                | _____                             | _____   |                    |       |
| Area B = _____                                | _____                             | _____   | / 0-39 = Low \     |       |
| Area C = _____                                | _____                             | _____   | I 40-79 = Medium I |       |
| Area D = _____                                | _____                             | _____   | \ 80-120 = High /  |       |
| Area E = _____                                | _____                             | _____   |                    |       |
| Area F = _____                                | _____                             | _____   |                    |       |
| Area G = _____                                | _____                             | _____   |                    | ***** |
|   |                                   |   | ENTER RISK         | * *   |
| Total = _____ + _____ + _____ = _____         |                                   |   | ---NUMBER---       | > * * |
|   |                                   |   |                    | * *   |
|   |                                   |   |                    | ***** |

Concern for Availability of Type II Crews Today

Use the situation report to get the number of Type II crew available today.

Number of Type II  
Crews Available Today

|                |         |  |          |
|----------------|---------|--|----------|
| Area A = _____ | I-----> | Crews Available Today = _____            |          |
| Area B = _____ | I       | Seasonal Fluctuation Adjustment = _____  |          |
| Area C = _____ | I       | Special Day Adjustment = _____           |          |
| Area D = _____ | I       | Historical Trend of Availability = _____ |          |
| Area E = _____ | I       | Adjustments for Exports = _____          |          |
| Area F = _____ | I       | Adjustments for Imports = _____          | *****    |
| Area G = _____ | I       |  | * *      |
| Total = _____  | --->I   | Total Type II Crews Available = _____    | -NO.>* * |
|                |         |  | * *      |
|                |         | (NOTE: DO NOT EXCEED 45 CREWS AVAILABLE) | *****    |

/ 0-15 = Low \  
I 16-30 = Medium I  
\ 31 + = High /

WORKSHEET FOR DETERMINATION OF PREPAREDNESS LEVEL FOR TODAY

Page 2 of 4

Date \_\_\_/\_\_\_/\_\_\_ Time \_\_\_\_\_

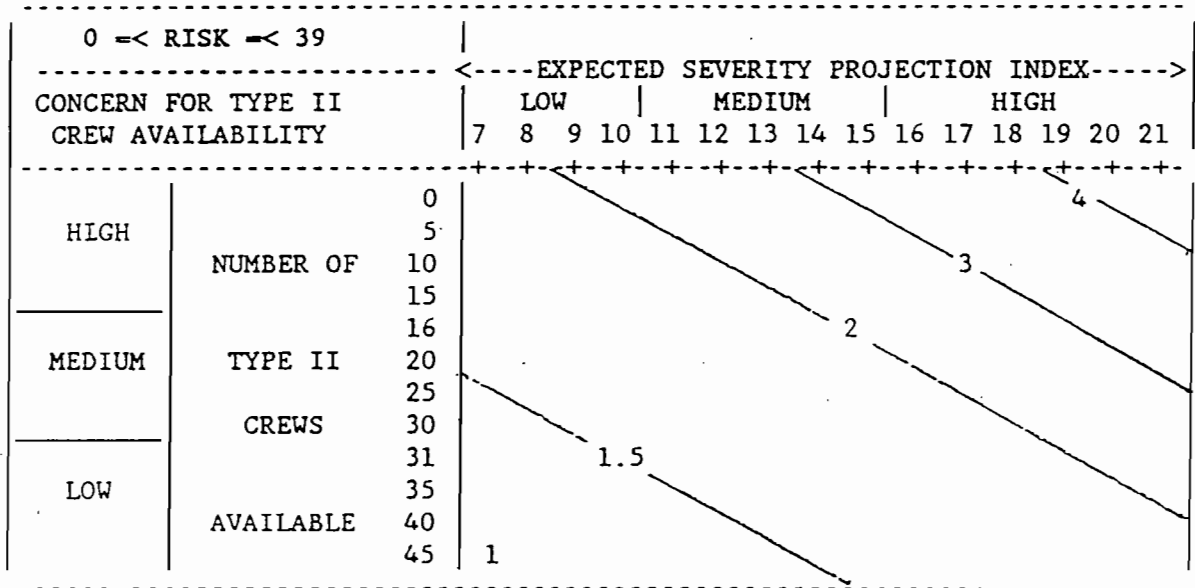
Today's Severity Index (SI)

Utilize AFFIRMS to determine today's average ERC value for each preparedness zone, A-G, in the region. Use the following table to determine if today's ERC is Low, Medium, or High. Determine point value: Low=1; Medium=2; High=3.

| Fuel Model | Today's ERC    | Area Category (L,M,H) | Point Value | Table for Category Determination |       |        |      |
|------------|----------------|-----------------------|-------------|----------------------------------|-------|--------|------|
| G          | Area A = _____ | _____                 | _____       | <---Category--->                 |       |        |      |
| C          | Area B = _____ | _____                 | _____       | Fuel Model                       | Low   | Medium | High |
| G          | Area C = _____ | _____                 | _____       | C                                | 0-8   | 9-16   | 17+  |
| C          | Area D = _____ | _____                 | _____       | G,F                              | 0-22  | 23-44  | 45+  |
| C          | Area E = _____ | _____                 | _____       | T                                | 0-5   | 6-11   | 12+  |
| F          | Area F = _____ | _____                 | _____       |                                  |       |        |      |
| T          | Area G = _____ | _____                 | _____       |                                  |       |        |      |
|            |                | Total = _____         | _____       | -----SEVERITY INDEX----->        |       |        |      |
|            |                |                       |             | / 0-10 = Low \                   | *     | *      | *    |
|            |                |                       |             | I 11-15 = Medium I               | ***** |        |      |
|            |                |                       |             | \ 16-21 = High /                 |       |        |      |

MATRIX FOR DETERMINING Initial Preparedness Level

Go to the chart with the appropriate RISK. Circle the Type II crew availability, Severity Index ERC, and the base Initial Preparedness Level. Compute the IPL as noted at the bottom of the chart.



IF THE BASE IPL >= 2, THEN IPL = (TABLE IPL) + (RISK/40)

= \_\_\_\_\_ + \_\_\_\_\_/40 = \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

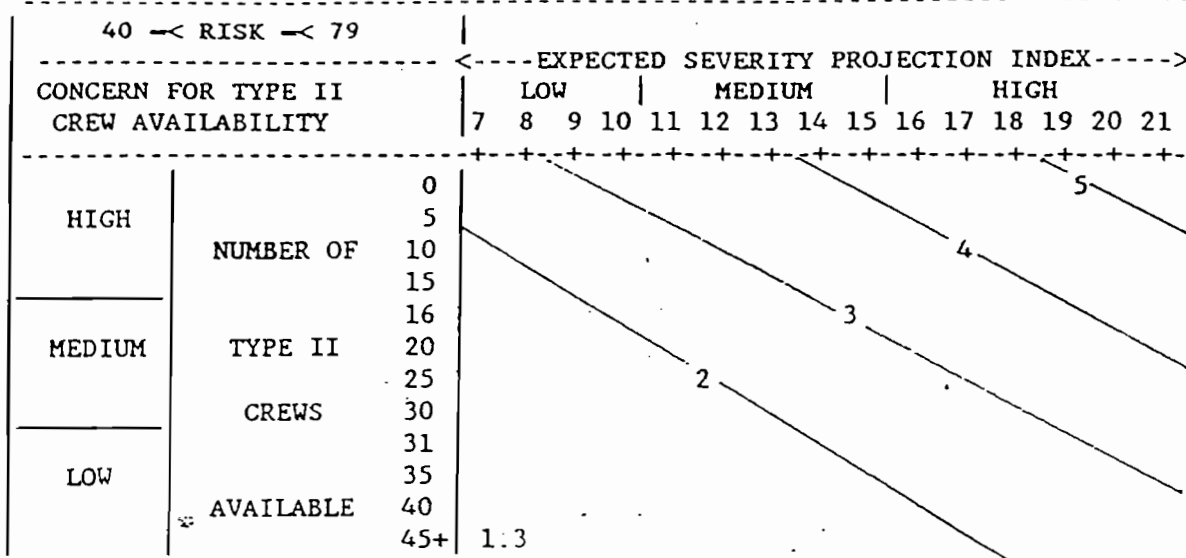
IF THE BASE IPL < 2, THEN IPL = (TABLE IPL) + (RISK/40)\*.3

= \_\_\_\_\_ + \_\_\_\_\_/40 = \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

WORKSHEET FOR DETERMINATION OF PREPAREDNESS LEVEL FOR TODAY

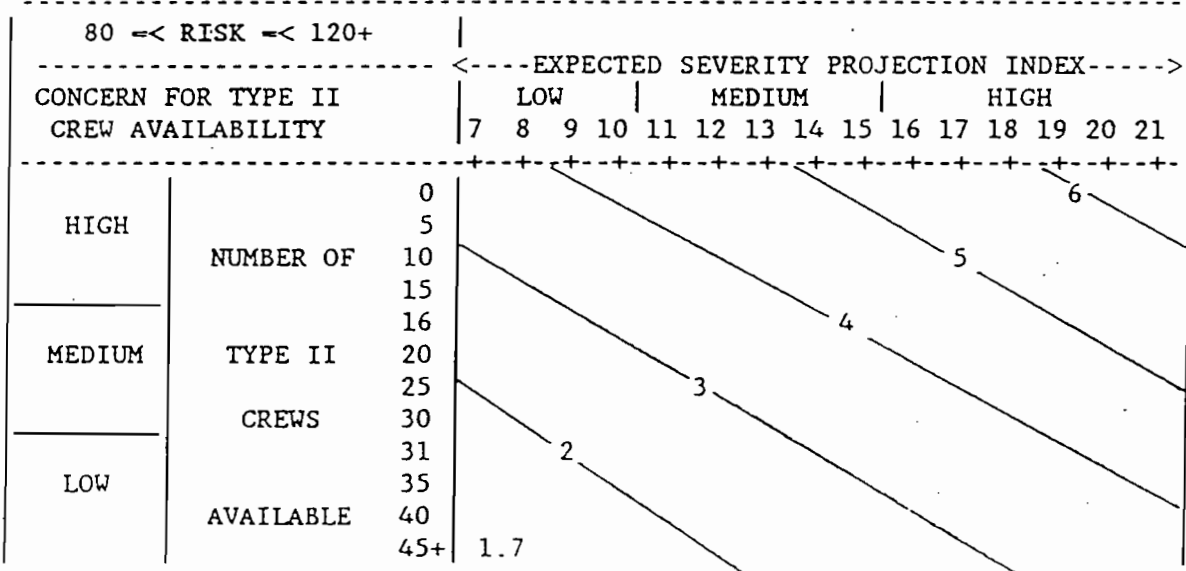
Page 3 of 4

Date \_\_\_/\_\_\_/\_\_\_ Time \_\_\_\_\_



IF THE BASE IPL >= 2, THEN IPL = (BASE IPL) + ((RISK-40)/40)  
 = \_\_\_\_\_ + \_\_\_\_\_/40 = \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

IF THE BASE IPL < 2, THEN IPL = (BASE IPL) + ((RISK-40)/40)\*.4  
 = \_\_\_\_\_ + \_\_\_\_\_/40 = \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_



IF RISK < 121 AND BASE IPL >= 2, IPL = (TABLE IPL) + ((RISK-80)/40)  
 = \_\_\_\_\_ + \_\_\_\_\_/40 = \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

IF RISK < 121 AND BASE IPL < 2, IPL = (TABLE IPL) + ((RISK-80)/40)\*.3  
 = \_\_\_\_\_ + \_\_\_\_\_/40 = \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

IF RISK > 120 AND BASE IPL >= 2, IPL = (TABLE IPL) + 1 = \_\_\_\_\_ + 1 = \_\_\_\_\_

IF RISK > 120 AND BASE IPL < 2, IPL = (TABLE IPL) + .3 = \_\_\_\_\_ + .3 = \_\_\_\_\_

DETERMINATION OF THE FINAL PREPAREDNESS LEVEL

The determination of the final preparedness level is a management decision made by the Northwest Coordination Center (NWC) Manager or designated acting. This decision will need to consider the following subjective criteria as a minimum:

- a) The observed weather.
- b) Additional risk of wildfire occurrence such as non-federal agencies plus wildfire activity Nationally.
- c) Social/political considerations.
- d) Other considerations

Item a can significantly change the Severity Projection Index. The NWC Manager should consider adjusting the Index according.

Item b can effect the RISK measure, particularly for wildfires burning elsewhere Nationally or within the Region on lands protected by agencies not covered by this plan. The NWC Manager should consider adjusting the Index according.

Items c and d are very subjective but need consideration. The NWC Manager should consider adjusting the final preparedness level to reflect these factors.

PREPAREDNESS LEVEL

\*\*\*\*\*  
 \* \*  
 \* \*  
 \* \*  
 \*\*\*\*\*

Other considerations (Items a - d): \_\_\_\_\_  
 \_\_\_\_\_  
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Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



Page 1 of 4

Prepared by \_\_\_\_\_ Date \_\_\_\_/\_\_\_\_/\_\_\_\_ Time \_\_\_\_\_

Expected Prescribed Fire and Wildfire Activity (RISK)

Use the situation report and/or graphs of historical relationships (Appendix B) to determine the expected prescribed fire and wildfire activity.

| <u>Daily Number</u><br><u>Active Rx Burns</u> | <u>Daily</u><br><u>Number</u><br><u>Wildfires</u> | <u>Estimated Number of</u><br><u>Wildfire Acres Burned</u><br><u>For 2 Days * .01</u> |                    |
|---|---|---|--------------------|
| Area A = _____                                | _____   | _____   |                    |
| Area B = _____                                | _____   | _____   | / 0-39 = Low \     |
| Area C = _____                                | _____   | _____   | I 40-79 = Medium I |
| Area D = _____                                | _____   | _____   | \ 80-120 = High /  |
| Area E = _____                                | _____   | _____   |                    |
| Area F = _____                                | _____   | _____   |                    |
| Area G = _____                                | _____   | _____   |                    |
| *****   |   |   |                    |
| ENTER RISK * *                                |   |   |                    |
| Total = _____ + _____ + _____ = _____         |   |   | ---NUMBER--- > * * |
| * *   |   |   |                    |
| *****   |   |   |                    |

Concern for Availability of Type II Crews Today

Use the situation report and/or graphs of historical relationships (Appendix C) to determine the expected number of Type II crew available.

Number of Type II  
Crews Available

|                |         |  |          |
|----------------|---------|--|----------|
| Area A = _____ | I-----> | Crews Available = _____                  |          |
| Area B = _____ | I       | Seasonal Fluctuation Adjustment = _____  |          |
| Area C = _____ | I       | Special Day Adjustment = _____           |          |
| Area D = _____ | I       | Historical Trend of Availability = _____ |          |
| Area E = _____ | I       | Adjustments for Exports = _____          |          |
| Area F = _____ | I       | Adjustments for Imports = _____          | *****    |
| Area G = _____ | I       |  | * *      |
| Total = _____  | --->I   | Total Type II Crews Available = _____    | -NO.>* * |
| * *            |         |  |          |
| *****          |         |  |          |

(NOTE: DO NOT EXCEED 45 CREWS AVAILABLE)

/ ^ 0-15 = Low \  
I 16-30 = Medium I  
\ 31 + = High /

WORKSHEET FOR DETERMINATION OF PREPAREDNESS LEVEL FOR \_\_\_\_\_ DAYS FROM TODAY

Page 2 of 4

Date \_\_\_/\_\_\_/\_\_\_ Time \_\_\_\_\_

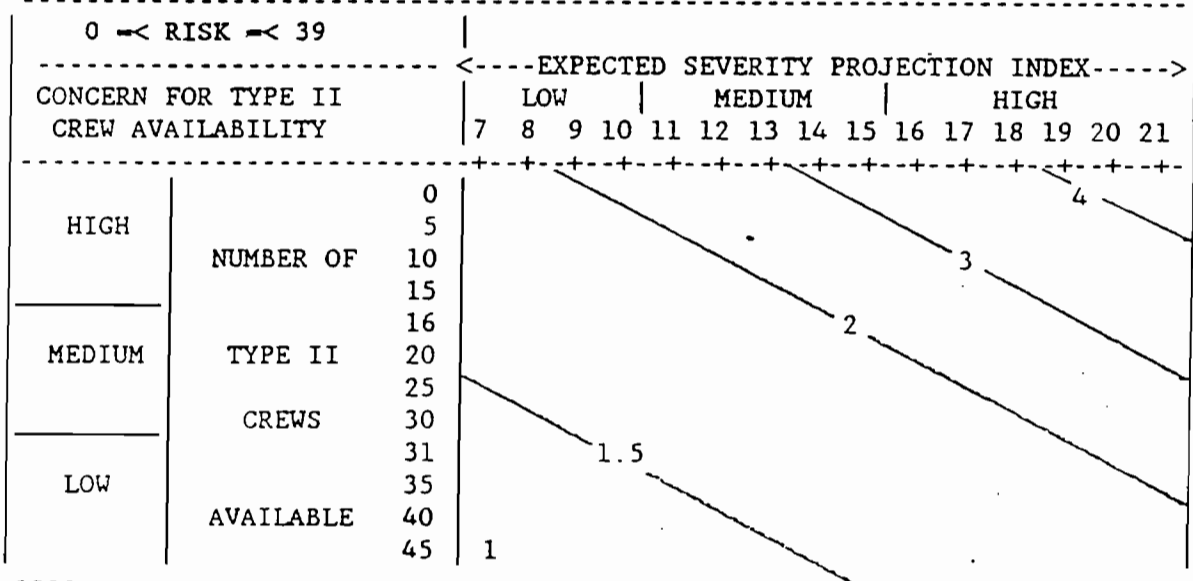
Today's Severity Index (SI)

Utilize AFFIRMS to determine today's average ERC value for each preparedness zone, A-G, in the region. Use the following table to determine if today's ERC is Low, Medium, or High. Use the Severity Projection Table to determine the expected Area Category. Determine point value: Low=1; Medium=2; High=3.

| Fuel Model               | Today's ERC    | Today's Area Category (L,M,H) | -Day Area Category | Point Value | Table for Category Determination  |                   |  |  |            |     |        |      |   |     |      |     |     |      |       |     |   |     |      |     |       |  |  |               |  |  |                   |  |  |                |  |  |                          |  |  |                  |  |  |
|--------------------------|----------------|-------------------------------|--------------------|-------------|---|-------------------|--|--|------------|-----|--------|------|---|-----|------|-----|-----|------|-------|-----|---|-----|------|-----|-------|--|--|---------------|--|--|-------------------|--|--|----------------|--|--|--------------------------|--|--|------------------|--|--|
| G                        | Area A = _____ | _____                         | _____              | _____       | <table border="0"> <tr> <td align="center" colspan="3">&lt;---Category----&gt;</td> </tr> <tr> <td>Fuel Model</td> <td>Low</td> <td>Medium</td> <td>High</td> </tr> <tr> <td>C</td> <td>0-8</td> <td>9-16</td> <td>17+</td> </tr> <tr> <td>G,F</td> <td>0-22</td> <td>23-44</td> <td>45+</td> </tr> <tr> <td>T</td> <td>0-5</td> <td>6-11</td> <td>12+</td> </tr> <tr> <td align="center" colspan="3">*****</td> </tr> <tr> <td align="center" colspan="3">*           *</td> </tr> <tr> <td align="center" colspan="3">&gt;SEVERITY INDEX&gt;*</td> </tr> <tr> <td align="center" colspan="3">/ 0-10 = Low \</td> </tr> <tr> <td align="center" colspan="3">I 11-15 = Medium I *****</td> </tr> <tr> <td align="center" colspan="3">\ 16-21 = High /</td> </tr> </table> | <---Category----> |  |  | Fuel Model | Low | Medium | High | C | 0-8 | 9-16 | 17+ | G,F | 0-22 | 23-44 | 45+ | T | 0-5 | 6-11 | 12+ | ***** |  |  | *           * |  |  | >SEVERITY INDEX>* |  |  | / 0-10 = Low \ |  |  | I 11-15 = Medium I ***** |  |  | \ 16-21 = High / |  |  |
| <---Category---->        |                |                               |                    |             |   |                   |  |  |            |     |        |      |   |     |      |     |     |      |       |     |   |     |      |     |       |  |  |               |  |  |                   |  |  |                |  |  |                          |  |  |                  |  |  |
| Fuel Model               | Low            | Medium                        | High               |             |   |                   |  |  |            |     |        |      |   |     |      |     |     |      |       |     |   |     |      |     |       |  |  |               |  |  |                   |  |  |                |  |  |                          |  |  |                  |  |  |
| C                        | 0-8            | 9-16                          | 17+                |             |   |                   |  |  |            |     |        |      |   |     |      |     |     |      |       |     |   |     |      |     |       |  |  |               |  |  |                   |  |  |                |  |  |                          |  |  |                  |  |  |
| G,F                      | 0-22           | 23-44                         | 45+                |             |   |                   |  |  |            |     |        |      |   |     |      |     |     |      |       |     |   |     |      |     |       |  |  |               |  |  |                   |  |  |                |  |  |                          |  |  |                  |  |  |
| T                        | 0-5            | 6-11                          | 12+                |             |   |                   |  |  |            |     |        |      |   |     |      |     |     |      |       |     |   |     |      |     |       |  |  |               |  |  |                   |  |  |                |  |  |                          |  |  |                  |  |  |
| *****                    |                |                               |                    |             |   |                   |  |  |            |     |        |      |   |     |      |     |     |      |       |     |   |     |      |     |       |  |  |               |  |  |                   |  |  |                |  |  |                          |  |  |                  |  |  |
| *           *            |                |                               |                    |             |   |                   |  |  |            |     |        |      |   |     |      |     |     |      |       |     |   |     |      |     |       |  |  |               |  |  |                   |  |  |                |  |  |                          |  |  |                  |  |  |
| >SEVERITY INDEX>*        |                |                               |                    |             |   |                   |  |  |            |     |        |      |   |     |      |     |     |      |       |     |   |     |      |     |       |  |  |               |  |  |                   |  |  |                |  |  |                          |  |  |                  |  |  |
| / 0-10 = Low \           |                |                               |                    |             |   |                   |  |  |            |     |        |      |   |     |      |     |     |      |       |     |   |     |      |     |       |  |  |               |  |  |                   |  |  |                |  |  |                          |  |  |                  |  |  |
| I 11-15 = Medium I ***** |                |                               |                    |             |   |                   |  |  |            |     |        |      |   |     |      |     |     |      |       |     |   |     |      |     |       |  |  |               |  |  |                   |  |  |                |  |  |                          |  |  |                  |  |  |
| \ 16-21 = High /         |                |                               |                    |             |   |                   |  |  |            |     |        |      |   |     |      |     |     |      |       |     |   |     |      |     |       |  |  |               |  |  |                   |  |  |                |  |  |                          |  |  |                  |  |  |
| C                        | Area B = _____ | _____                         | _____              | _____       |   |                   |  |  |            |     |        |      |   |     |      |     |     |      |       |     |   |     |      |     |       |  |  |               |  |  |                   |  |  |                |  |  |                          |  |  |                  |  |  |
| G                        | Area C = _____ | _____                         | _____              | _____       |   |                   |  |  |            |     |        |      |   |     |      |     |     |      |       |     |   |     |      |     |       |  |  |               |  |  |                   |  |  |                |  |  |                          |  |  |                  |  |  |
| C                        | Area D = _____ | _____                         | _____              | _____       |   |                   |  |  |            |     |        |      |   |     |      |     |     |      |       |     |   |     |      |     |       |  |  |               |  |  |                   |  |  |                |  |  |                          |  |  |                  |  |  |
| C                        | Area E = _____ | _____                         | _____              | _____       |   |                   |  |  |            |     |        |      |   |     |      |     |     |      |       |     |   |     |      |     |       |  |  |               |  |  |                   |  |  |                |  |  |                          |  |  |                  |  |  |
| F                        | Area F = _____ | _____                         | _____              | _____       |   |                   |  |  |            |     |        |      |   |     |      |     |     |      |       |     |   |     |      |     |       |  |  |               |  |  |                   |  |  |                |  |  |                          |  |  |                  |  |  |
| T                        | Area G = _____ | _____                         | _____              | _____       |   |                   |  |  |            |     |        |      |   |     |      |     |     |      |       |     |   |     |      |     |       |  |  |               |  |  |                   |  |  |                |  |  |                          |  |  |                  |  |  |
| Total = _____            |                |                               |                    | _____       |   |                   |  |  |            |     |        |      |   |     |      |     |     |      |       |     |   |     |      |     |       |  |  |               |  |  |                   |  |  |                |  |  |                          |  |  |                  |  |  |

MATRIX FOR DETERMINING Initial Preparedness Level

Go to the chart with the appropriate RISK. Circle the Type II crew availability, Severity Index ERC, and the base Initial Preparedness Level. Compute the IPL as noted at the bottom of the chart.



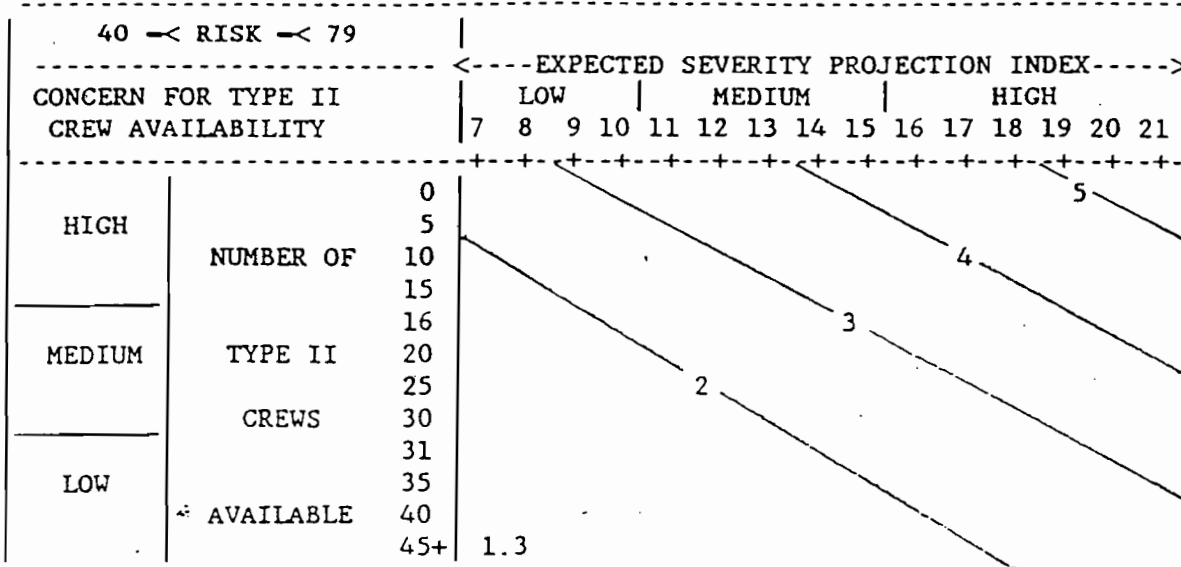
IF THE BASE IPL >= 2, THEN IPL = (TABLE IPL) + (RISK/40)  
 = \_\_\_\_\_ + \_\_\_\_\_/40 = \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

IF THE BASE IPL < 2, THEN IPL = (TABLE IPL) + (RISK/40)\*.3  
 = \_\_\_\_\_ + \_\_\_\_\_/40 = \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

WORKSHEET FOR DETERMINATION OF PREPAREDNESS LEVEL FOR \_\_\_\_\_ DAYS FROM TODAY

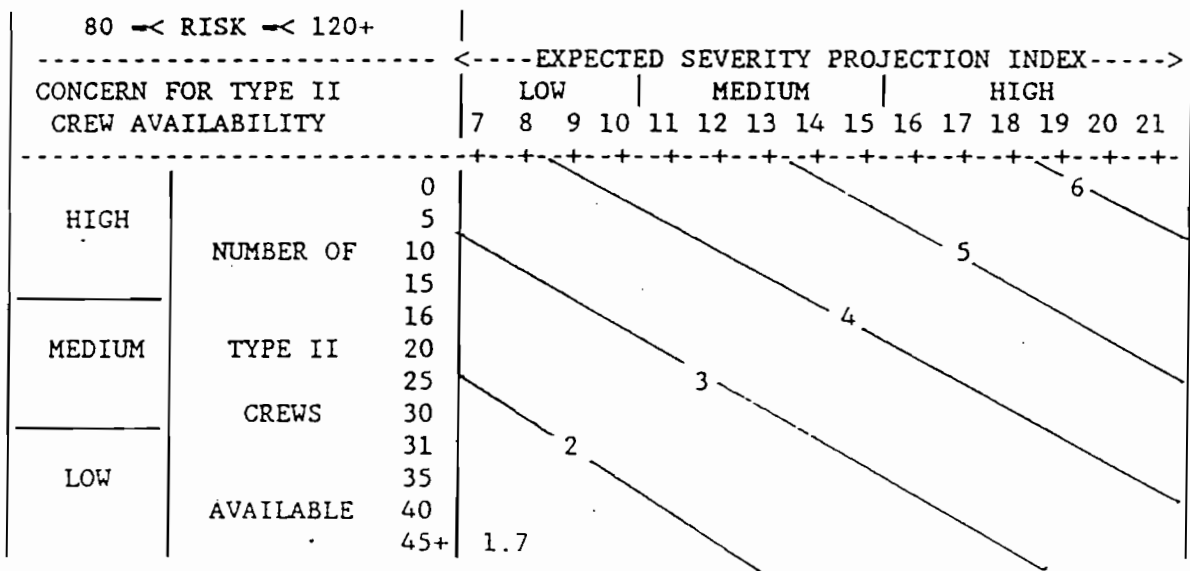
Page 3 of 4

Date \_\_\_/\_\_\_/\_\_\_ Time \_\_\_\_\_



IF THE BASE IPL  $\geq$  2, THEN IPL = (BASE IPL) + ((RISK-40)/40)  
 = \_\_\_\_\_ + \_\_\_\_\_/40 = \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

IF THE BASE IPL < 2, THEN IPL = (BASE IPL) + ((RISK-40)/40)\*.4  
 = \_\_\_\_\_ + \_\_\_\_\_/40 = \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_



IF RISK < 121 AND BASE IPL  $\geq$  2, IPL = (TABLE IPL) + ((RISK-80)/40)  
 = \_\_\_\_\_ + \_\_\_\_\_/40 = \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

IF RISK < 121 AND BASE IPL < 2, IPL = (TABLE IPL) + ((RISK-80)/40)\*.3  
 = \_\_\_\_\_ + \_\_\_\_\_/40 = \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

IF RISK > 120 AND BASE IPL  $\geq$  2, IPL = (TABLE IPL) + 1 = \_\_\_\_\_ + 1 = \_\_\_\_\_

IF RISK > 120 AND BASE IPL < 2, IPL = (TABLE IPL) + .3 = \_\_\_\_\_ + .3 = \_\_\_\_\_



## APPENDIX B

Study to Determine RISK  
Utilizing Prescribed Fire  
Workload and Wildfire  
Occurrence by Cause



## Prescribed Fire Activity

A study using data from the past two years was used to determine an estimate of the prescribed fire activity in the Region on Federal lands. Only the last two years were considered because the currency of this program was of interest, not past historical trends.

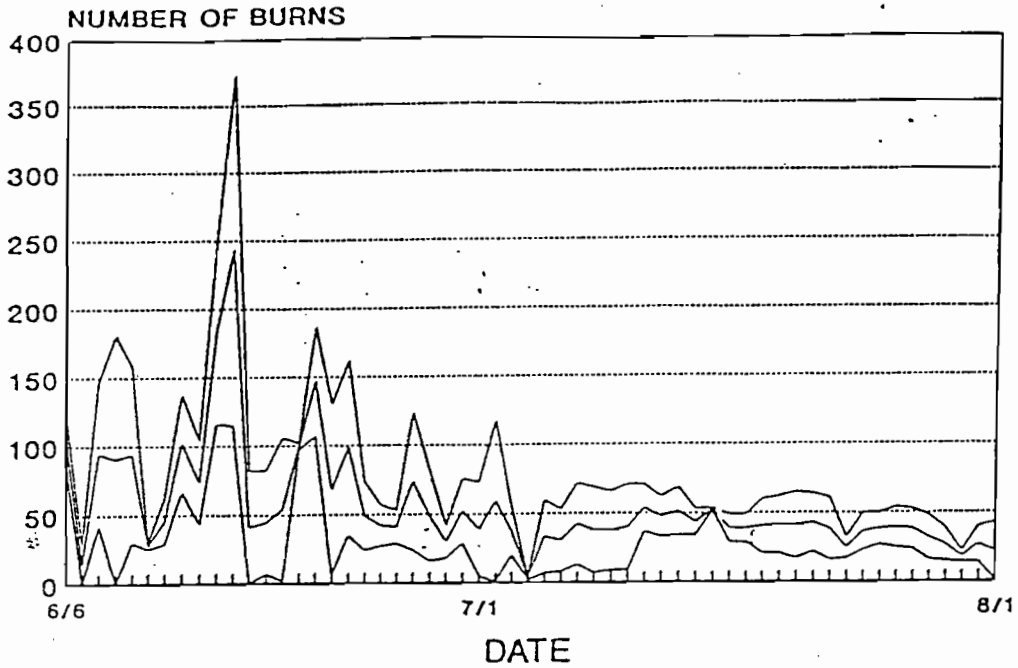
Based on the Situation Report, June is the most active month for both number of burns and active prescribed fire acres. Good data from the Situation Report is difficult to attain before June 1 and after September 15. During June, it is not uncommon to have more than 100 active prescribed burns in a day with a few days in excess of 200 burns. During July, the number of active burns reduces to less than 50 and is further reduced after August 1 to less than 30. These figures were used to determine breakpoints between a Low, Medium, and High level of prescribed fire use. Prescribed fire activity is considered Low if there are between 0 and 39 active burns in the Region. It is considered medium with 40-79 burns and high with greater than 80 burns.

The following graphs display the results.

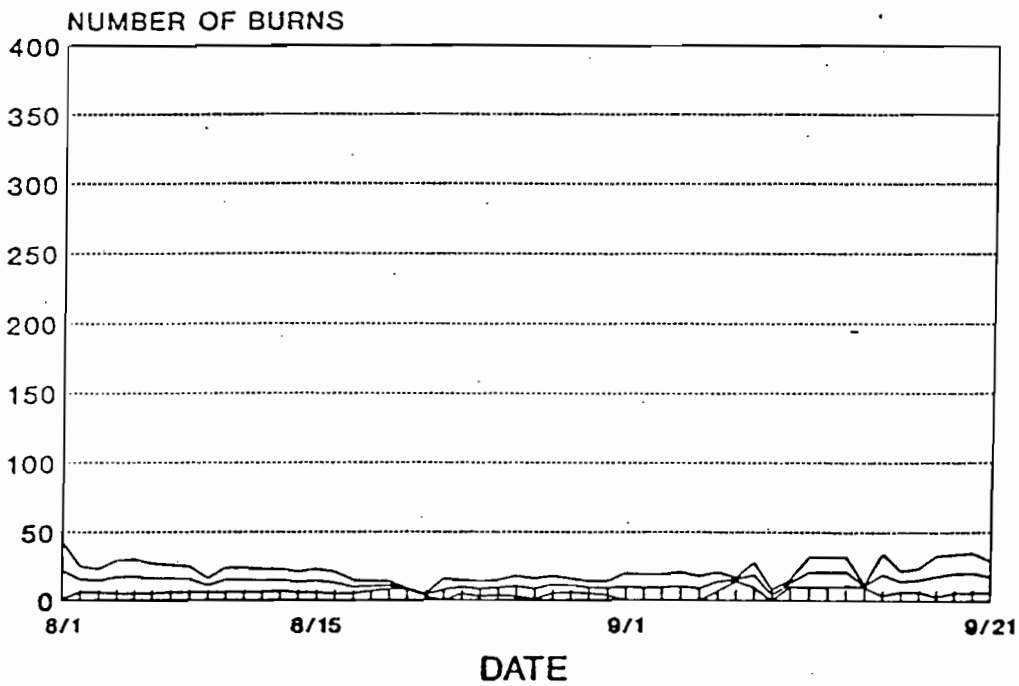




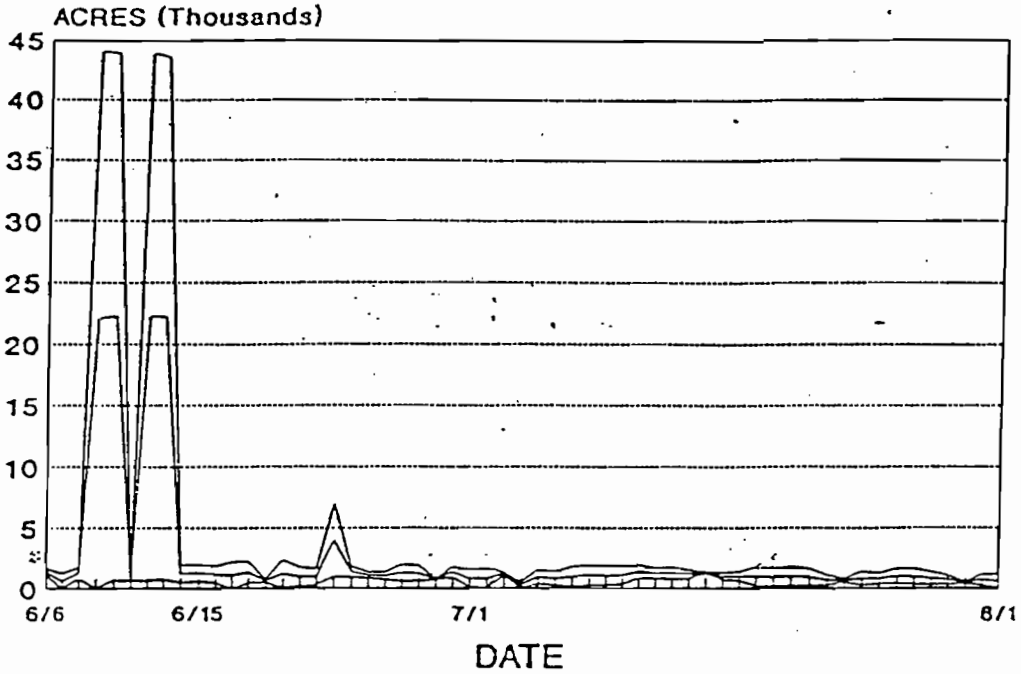
# ACTIVE RxBURNING 1988-89 HIGH, LOW, AND AVERAGE CURVES



# ACTIVE RxBURNING 1988-89 HIGH, LOW, AND AVERAGE CURVES

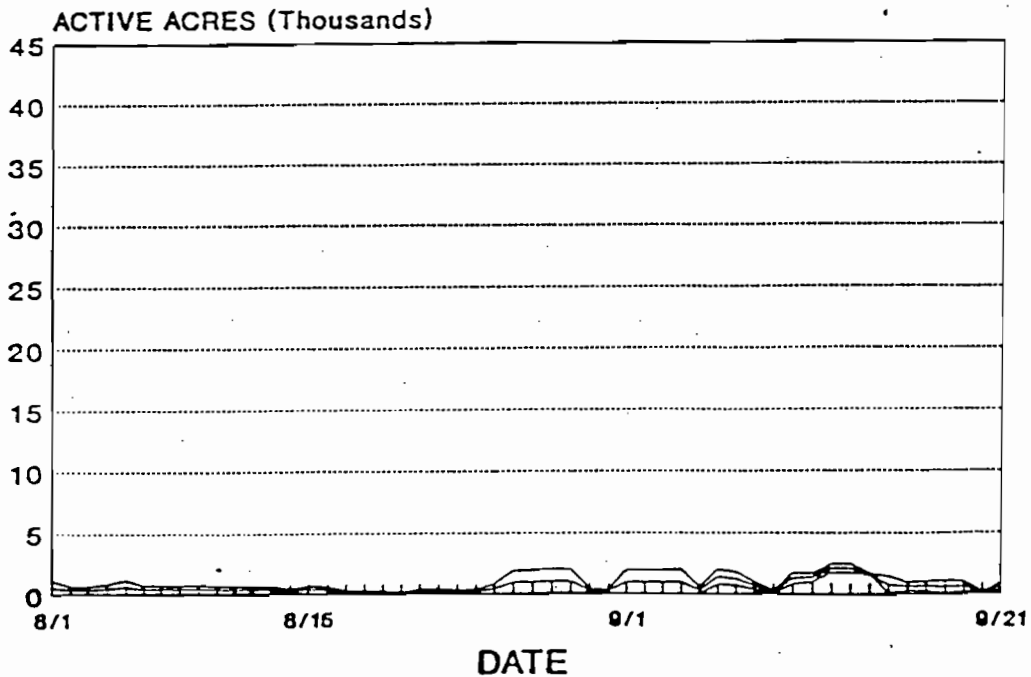


# ACTIVE RxBURNING 1988-89 HIGH, LOW, AND AVERAGE CURVES



SIT REPORT DATA

# ACTIVE RxBURNING 1988-89 HIGH, LOW, AND AVERAGE CURVES



SIT REPORT DATA

## Wildfire Activity

Two computer programs were written to analyze the wildfire activity from human-caused and lightning sources. Due to data base and time limitations, this analysis only included wildfires occurring on Forest Service lands in Region 6. A more complete analysis including fires from other Federal agency lands should occur during the Plan critique in the Fall, 1990.

As you recall, the RISK part of the calculation of the IPL is determined by the following formula:

$$\text{RISK} = (\text{Number of Prescribed Fires}) + (\text{Number of Wildfires}) \\ + (\text{A Calibration Factor})$$

The calibration factor has been determined experimently using daily data from 1988 and 1989. It is meant to reflect additional risk from uncontrolled wildfires and is equal to one-hundredth (.01) times the sum of the acres burned for the two previous days.

The first table (Table B-1) gives the average and maximum number of wildfires which have occurred historically by the day of the year. It gives these by human-caused using the 1980-1989 time period and by lightning-caused using the 1970-1989 time period. The value of Table B-1 is the estimation of the daily expected number of human-caused fires per day. On one day the Region experienced 33 human-caused fires but a more adequate estimated maximum number of human-caused fires is between 10 and 15.

A survey of the maximum number of lightning-caused fires per day from Table B-1 gives one information on when to expect significant lightning storms in the Region. Table B-2 gives a summary of lightning-caused fires sorted by number of lightning-caused fires per day. It also gives the number Class C, D, E, F, and G lightning-caused fires per day. Table B-3 gives the same information on lightning-caused fires but it is sorted by the Total Number of Class C-G Lightning-caused Fires per Day. A survey of Table B-2 and B-3 indicates that the Region can expect to experience 10 or more Class C-G fires when the Region experiences 150+ lightning-caused fires per day and fuels a dry. Table B-1 indicates that these storms have occurred generally between July 15 and September 15 with the highest probability between the last week of July and the last week of August.

Hopefully this information will assist NWC personnel in estimating the expected number and size of wildfires for preparedness planning.



TABLE B-1  
 FOREST SERVICE - REGION 6 - AVERAGE AND MAXIMUM FIRES PER DAY

| DATE<br>MMDD | 80-89 DATA<br>HUMAN-CAUSED |         | 70-89 DATA<br>LGHTG-CAUSED |         |
|--------------|----------------------------|---------|----------------------------|---------|
|              | AVERAGE                    | MAXIMUM | AVERAGE                    | MAXIMUM |
| 101          | .5                         | 2       | .0                         | 0       |
| 107          | .1                         | 1       | .0                         | 0       |
| 108          | .1                         | 1       | .0                         | 0       |
| 109          | .1                         | 1       | .0                         | 0       |
| 123          | .1                         | 1       | .0                         | 0       |
| 128          | .0                         | 0       | .0                         | 1       |
| 202          | .1                         | 1       | .0                         | 0       |
| 205          | .1                         | 1       | .0                         | 0       |
| 207          | .1                         | 1       | .0                         | 1       |
| 213          | .1                         | 1       | .0                         | 0       |
| 215          | .1                         | 1       | .0                         | 0       |
| 216          | .0                         | 0       | .0                         | 1       |
| 220          | .1                         | 1       | .1                         | 2       |
| 223          | .1                         | 1       | .0                         | 0       |
| 224          | .1                         | 1       | .0                         | 0       |
| 225          | .0                         | 0       | .0                         | 1       |
| 227          | .0                         | 0       | .0                         | 1       |
| 228          | .1                         | 1       | .0                         | 1       |
| 304          | .1                         | 1       | .0                         | 0       |
| 307          | .1                         | 1       | .0                         | 0       |
| 308          | .2                         | 2       | .0                         | 0       |
| 310          | .1                         | 1       | .0                         | 0       |
| 312          | .0                         | 0       | .0                         | 1       |
| 315          | .2                         | 1       | .0                         | 0       |
| 316          | .1                         | 1       | .0                         | 0       |
| 317          | .2                         | 1       | .0                         | 0       |
| 318          | .2                         | 1       | .0                         | 0       |
| 319          | .2                         | 2       | .0                         | 0       |
| 320          | .2                         | 1       | .0                         | 0       |
| 321          | .3                         | 2       | .0                         | 0       |
| 322          | .1                         | 1       | .0                         | 0       |
| 325          | .1                         | 1       | .0                         | 0       |
| 326          | .1                         | 1       | .0                         | 0       |
| 327          | .3                         | 1       | .0                         | 0       |
| 328          | .2                         | 1       | .0                         | 0       |
| 329          | .1                         | 1       | .0                         | 0       |
| 330          | .3                         | 2       | .0                         | 0       |
| 331          | .3                         | 3       | .0                         | 0       |
| 401          | .4                         | 3       | .0                         | 0       |
| 402          | .1                         | 1       | .0                         | 0       |
| 403          | .2                         | 2       | .0                         | 1       |
| 404          | .1                         | 1       | .0                         | 0       |
| 405          | .2                         | 1       | .0                         | 0       |
| 406          | .0                         | 0       | .0                         | 1       |
| 407          | .5                         | 2       | .0                         | 0       |
| 408          | .2                         | 1       | .0                         | 0       |
| 409          | .2                         | 1       | .0                         | 1       |

TABLE B-1 (Con't.)  
 FOREST SERVICE - REGION 6 - AVERAGE AND MAXIMUM FIRES PER DAY

| DATE<br>MMDD | 80-89 DATA<br>HUMAN-CAUSED |         | 70-89 DATA<br>LGHTG-CAUSED |         |
|--------------|----------------------------|---------|----------------------------|---------|
|              | AVERAGE                    | MAXIMUM | AVERAGE                    | MAXIMUM |
| 410          | .6                         | 3       | .0                         | 0       |
| 411          | .2                         | 1       | .0                         | 0       |
| 412          | .2                         | 1       | .1                         | 2       |
| 413          | .3                         | 2       | .1                         | 2       |
| 414          | .1                         | 1       | .0                         | 0       |
| 415          | .5                         | 2       | .1                         | 2       |
| 416          | .4                         | 2       | .0                         | 0       |
| 417          | .0                         | 0       | .1                         | 1       |
| 418          | .5                         | 3       | .0                         | 0       |
| 419          | .2                         | 1       | .0                         | 1       |
| 420          | .1                         | 1       | .0                         | 1       |
| 421          | .3                         | 2       | .0                         | 0       |
| 422          | .2                         | 1       | .0                         | 0       |
| 423          | .5                         | 3       | .0                         | 1       |
| 424          | .1                         | 1       | .0                         | 1       |
| 425          | .3                         | 1       | .0                         | 1       |
| 426          | .4                         | 2       | .0                         | 1       |
| 427          | .3                         | 1       | 1.3                        | 27      |
| 428          | .5                         | 2       | .5                         | 6       |
| 429          | .3                         | 1       | .4                         | 3       |
| 430          | .2                         | 1       | .3                         | 4       |
| 501          | .4                         | 3       | .3                         | 2       |
| 502          | .5                         | 2       | .0                         | 0       |
| 503          | .2                         | 1       | .1                         | 2       |
| 504          | .4                         | 1       | .4                         | 4       |
| 505          | .4                         | 1       | .6                         | 5       |
| 506          | .9                         | 3       | .1                         | 1       |
| 507          | .2                         | 2       | 1.1                        | 20      |
| 508          | .2                         | 1       | 2.0                        | 37      |
| 509          | .3                         | 1       | .3                         | 6       |
| 510          | .8                         | 2       | .1                         | 1       |
| 511          | .8                         | 3       | .5                         | 7       |
| 512          | .4                         | 1       | .3                         | 5       |
| 513          | .8                         | 2       | .6                         | 4       |
| 514          | 1.1                        | 4       | 1.7                        | 31      |
| 515          | .4                         | 2       | 1.8                        | 33      |
| 516          | .7                         | 4       | .5                         | 9       |
| 517          | .9                         | 3       | .6                         | 7       |
| 518          | .4                         | 1       | .4                         | 4       |
| 519          | 1.1                        | 3       | .4                         | 4       |
| 520          | .5                         | 2       | .3                         | 3       |
| 521          | 1.0                        | 4       | .6                         | 5       |
| 522          | .8                         | 4       | .4                         | 3       |
| 523          | 1.0                        | 3       | .5                         | 6       |
| 524          | 1.7                        | 6       | .5                         | 5       |
| 525          | 1.5                        | 5       | .3                         | 2       |
| 526          | 1.1                        | 4       | .3                         | 2       |

TABLE B-1 (Con't.)  
 FOREST SERVICE - REGION 6 - AVERAGE AND MAXIMUM FIRES PER DAY

| DATE<br>MMDD | 80-89 DATA              |         | 70-89 DATA              |         |
|--------------|-------------------------|---------|-------------------------|---------|
|              | HUMAN-CAUSED<br>AVERAGE | MAXIMUM | LGHTG-CAUSED<br>AVERAGE | MAXIMUM |
| 527          | 1.2                     | 3       | .3                      | 1       |
| 528          | 4.7                     | 33      | .8                      | 13      |
| 529          | 1.6                     | 4       | 1.6                     | 7       |
| 530          | 2.1                     | 5       | 2.4                     | 19      |
| 531          | 1.1                     | 5       | 2.1                     | 16      |
| 601          | 1.0                     | 3       | 1.4                     | 10      |
| 602          | .9                      | 4       | 6.0                     | 58      |
| 603          | 1.0                     | 3       | 4.6                     | 56      |
| 604          | .7                      | 4       | 2.7                     | 32      |
| 605          | 1.1                     | 4       | .8                      | 4       |
| 606          | .8                      | 3       | 3.4                     | 24      |
| 607          | .9                      | 4       | 5.4                     | 68      |
| 608          | .7                      | 4       | 3.3                     | 30      |
| 609          | 1.2                     | 4       | 1.1                     | 8       |
| 610          | .5                      | 2       | .7                      | 6       |
| 611          | .9                      | 2       | .9                      | 6       |
| 612          | 1.7                     | 5       | 1.3                     | 12      |
| 613          | 1.7                     | 5       | 2.6                     | 20      |
| 614          | 1.4                     | 4       | 7.6                     | 120     |
| 615          | 1.4                     | 4       | 4.3                     | 30      |
| 616          | 2.6                     | 8       | 4.8                     | 61      |
| 617          | 2.3                     | 7       | 1.1                     | 5       |
| 618          | 1.9                     | 7       | 5.5                     | 50      |
| 619          | 1.9                     | 6       | 7.2                     | 49      |
| 620          | 1.4                     | 6       | 6.8                     | 34      |
| 621          | 1.6                     | 4       | 6.3                     | 58      |
| 622          | 1.6                     | 5       | 7.0                     | 51      |
| 623          | 2.2                     | 6       | 6.8                     | 73      |
| 624          | 3.0                     | 9       | 6.0                     | 53      |
| 625          | 2.7                     | 7       | 2.0                     | 13      |
| 626          | -1.5                    | 4       | 6.8                     | 44      |
| 627          | 1.9                     | 5       | 3.0                     | 29      |
| 628          | 1.4                     | 6       | 7.6                     | 57      |
| 629          | 1.8                     | 4       | 6.4                     | 82      |
| 630          | 1.9                     | 7       | 3.3                     | 29      |
| 701          | 2.3                     | 4       | 6.9                     | 94      |
| 702          | 1.6                     | 3       | 5.5                     | 58      |
| 703          | 2.6                     | 7       | 3.5                     | 35      |
| 704          | 6.0                     | 14      | 7.3                     | 88      |
| 705          | 4.5                     | 14      | 7.9                     | 58      |
| 706          | 2.5                     | 7       | 13.9                    | 126     |
| 707          | 3.5                     | 10      | 10.1                    | 68      |
| 708          | 1.9                     | 4       | 7.8                     | 36      |
| 709          | 2.2                     | 4       | 7.1                     | 48      |
| 710          | 2.9                     | 7       | 7.4                     | 72      |
| 711          | 2.7                     | 5       | 4.0                     | 46      |
| 712          | 2.5                     | 8       | 3.9                     | 45      |

TABLE B-1 (Con't.)  
 FOREST SERVICE - REGION 6 - AVERAGE AND MAXIMUM FIRES PER DAY

| DATE<br>MMDD | 80-89 DATA              |         | 70-89 DATA              |         |
|--------------|-------------------------|---------|-------------------------|---------|
|              | HUMAN-CAUSED<br>AVERAGE | MAXIMUM | LGHTG-CAUSED<br>AVERAGE | MAXIMUM |
| 713          | 3.0                     | 5       | 2.4                     | 18      |
| 714          | 3.0                     | 9       | 6.7                     | 87      |
| 715          | 2.3                     | 5       | 5.8                     | 50      |
| 716          | 2.5                     | 6       | 14.8                    | 229     |
| 717          | 2.1                     | 6       | 5.7                     | 33      |
| 718          | 2.8                     | 6       | 5.8                     | 30      |
| 719          | 2.6                     | 7       | 16.5                    | 114     |
| 720          | 4.4                     | 8       | 9.0                     | 34      |
| 721          | 4.1                     | 8       | 9.1                     | 32      |
| 722          | 3.9                     | 13      | 5.3                     | 33      |
| 723          | 3.4                     | 5       | 8.3                     | 61      |
| 724          | 4.4                     | 7       | 13.0                    | 102     |
| 725          | 3.0                     | 9       | 15.8                    | 153     |
| 726          | 3.4                     | 5       | 35.4                    | 276     |
| 727          | 4.5                     | 9       | 12.1                    | 70      |
| 728          | 3.2                     | 6       | 25.9                    | 152     |
| 729          | 4.0                     | 6       | 20.5                    | 165     |
| 730          | 3.8                     | 8       | 15.0                    | 99      |
| 731          | 3.1                     | 10      | 25.4                    | 132     |
| 801          | 3.1                     | 5       | 18.2                    | 127     |
| 802          | 3.2                     | 7       | 23.3                    | 155     |
| 803          | 3.7                     | 9       | 14.6                    | 97      |
| 804          | 3.3                     | 7       | 11.1                    | 85      |
| 805          | 3.7                     | 7       | 15.0                    | 80      |
| 806          | 3.9                     | 6       | 15.4                    | 83      |
| 807          | 4.2                     | 11      | 13.9                    | 77      |
| 808          | 4.1                     | 9       | 18.4                    | 155     |
| 809          | 4.9                     | 10      | 15.0                    | 76      |
| 810          | 3.5                     | 11      | 25.1                    | 245     |
| 811          | 3.4                     | 6       | 14.6                    | 105     |
| 812          | 3.7                     | 6       | 18.9                    | 122     |
| 813          | 4.4                     | 7       | 17.0                    | 93      |
| 814          | 3.0                     | 7       | 16.9                    | 132     |
| 815          | 2.7                     | 5       | 8.8                     | 44      |
| 816          | 3.7                     | 8       | 11.0                    | 71      |
| 817          | 4.0                     | 10      | 8.0                     | 62      |
| 818          | 3.4                     | 6       | 7.6                     | 42      |
| 819          | 3.0                     | 9       | 11.4                    | 115     |
| 820          | 3.3                     | 8       | 15.4                    | 72      |
| 821          | 5.2                     | 11      | 10.6                    | 69      |
| 822          | 3.8                     | 7       | 19.0                    | 127     |
| 823          | 5.0                     | 8       | 11.5                    | 71      |
| 824          | 5.0                     | 10      | 8.6                     | 69      |
| 825          | 4.9                     | 9       | 3.5                     | 22      |
| 826          | 4.0                     | 8       | 5.3                     | 26      |
| 827          | 4.1                     | 11      | 8.8                     | 99      |
| 828          | 5.2                     | 11      | 8.6                     | 60      |



TABLE B-1 (Con't.)  
 FOREST SERVICE - REGION 6 - AVERAGE AND MAXIMUM FIRES PER DAY

| DATE<br>MMDD | 80-89 DATA              |         | 70-89 DATA              |         |
|--------------|-------------------------|---------|-------------------------|---------|
|              | HUMAN-CAUSED<br>AVERAGE | MAXIMUM | LGHTG-CAUSED<br>AVERAGE | MAXIMUM |
| 829          | 4.5                     | 11      | 11.5                    | 46      |
| 830          | 4.1                     | 10      | 34.6                    | 340     |
| 831          | 3.6                     | 9       | 21.4                    | 259     |
| 901          | 3.3                     | 8       | 5.0                     | 51      |
| 902          | 3.2                     | 5       | 3.7                     | 25      |
| 903          | 3.7                     | 10      | 1.7                     | 23      |
| 904          | 5.2                     | 9       | 3.1                     | 44      |
| 905          | 3.9                     | 7       | 1.8                     | 15      |
| 906          | 4.5                     | 12      | 1.8                     | 9       |
| 907          | 3.9                     | 9       | 8.4                     | 164     |
| 908          | 3.1                     | 9       | .8                      | 7       |
| 909          | 2.9                     | 7       | .9                      | 11      |
| 910          | 3.0                     | 11      | .8                      | 8       |
| 911          | 2.6                     | 6       | .8                      | 8       |
| 912          | 2.5                     | 6       | .4                      | 4       |
| 913          | 3.8                     | 13      | 4.5                     | 59      |
| 914          | 3.9                     | 9       | 6.0                     | 85      |
| 915          | 2.0                     | 5       | 4.1                     | 56      |
| 916          | 2.6                     | 7       | 3.3                     | 51      |
| 917          | 2.8                     | 7       | 4.3                     | 71      |
| 918          | 2.1                     | 4       | 2.8                     | 37      |
| 919          | 1.9                     | 6       | 2.1                     | 9       |
| 920          | 3.0                     | 8       | 1.5                     | 11      |
| 921          | 2.2                     | 6       | .8                      | 5       |
| 922          | 2.2                     | 7       | .6                      | 6       |
| 923          | 1.8                     | 5       | .6                      | 8       |
| 924          | 1.9                     | 4       | .6                      | 4       |
| 925          | 1.6                     | 5       | 3.1                     | 55      |
| 926          | 1.4                     | 3       | .4                      | 4       |
| 927          | 1.3                     | 3       | .3                      | 3       |
| 928          | 2.7                     | 5       | .3                      | 3       |
| 929          | 1.9                     | 7       | .4                      | 6       |
| 930          | 4.1                     | 17      | .1                      | 1       |
| 1001         | 3.4                     | 10      | 4.2                     | 64      |
| 1002         | 4.5                     | 13      | 3.0                     | 38      |
| 1003         | 5.5                     | 19      | 1.0                     | 11      |
| 1004         | 4.8                     | 9       | .2                      | 2       |
| 1005         | 4.8                     | 15      | .3                      | 2       |
| 1006         | 5.2                     | 14      | .1                      | 1       |
| 1007         | 2.9                     | 10      | .6                      | 8       |
| 1008         | 3.0                     | 9       | .3                      | 2       |
| 1009         | 2.3                     | 7       | .3                      | 1       |
| 1010         | 3.7                     | 10      | .0                      | 1       |
| 1011         | 3.1                     | 9       | .1                      | 1       |
| 1012         | 2.4                     | 7       | .3                      | 3       |
| 1013         | 2.8                     | 7       | .5                      | 4       |
| 1014         | 1.9                     | 5       | .5                      | 8       |

TABLE B-1 (Con't.)  
 FOREST SERVICE - REGION 6 - AVERAGE AND MAXIMUM FIRES PER DAY

| DATE<br>MMDD | 80-89 DATA              |         | 70-89 DATA              |         |
|--------------|-------------------------|---------|-------------------------|---------|
|              | HUMAN-CAUSED<br>AVERAGE | MAXIMUM | LGHTG-CAUSED<br>AVERAGE | MAXIMUM |
| 1015         | 3.0                     | 6       | .1                      | 3       |
| 1016         | 3.1                     | 8       | .5                      | 4       |
| 1017         | 3.2                     | 11      | .2                      | 2       |
| 1018         | 2.5                     | 9       | .1                      | 2       |
| 1019         | 2.7                     | 7       | .0                      | 1       |
| 1020         | 1.7                     | 4       | .0                      | 0       |
| 1021         | 2.1                     | 9       | .2                      | 2       |
| 1022         | 1.7                     | 5       | .0                      | 0       |
| 1023         | 2.4                     | 6       | .1                      | 1       |
| 1024         | 1.6                     | 5       | .1                      | 1       |
| 1025         | 1.9                     | 7       | .1                      | 2       |
| 1026         | 1.5                     | 7       | .0                      | 1       |
| 1027         | 1.8                     | 12      | .1                      | 1       |
| 1028         | 2.4                     | 13      | .0                      | 0       |
| 1029         | 2.5                     | 15      | .1                      | 1       |
| 1030         | 1.9                     | 12      | .0                      | 0       |
| 1031         | 2.7                     | 15      | .0                      | 1       |
| 1101         | 1.9                     | 5       | .0                      | 1       |
| 1102         | .9                      | 4       | .0                      | 0       |
| 1103         | 1.8                     | 7       | .0                      | 1       |
| 1104         | 1.0                     | 4       | .0                      | 0       |
| 1105         | 1.2                     | 5       | .0                      | 0       |
| 1106         | .6                      | 2       | .0                      | 0       |
| 1107         | 1.1                     | 4       | .0                      | 0       |
| 1108         | 1.5                     | 11      | .1                      | 1       |
| 1109         | 1.7                     | 9       | .0                      | 0       |
| 1110         | .3                      | 2       | .0                      | 0       |
| 1111         | .2                      | 1       | .0                      | 0       |
| 1112         | .3                      | 2       | .0                      | 0       |
| 1113         | .4                      | 2       | .0                      | 0       |
| 1114         | .1                      | 1       | .0                      | 0       |
| 1121         | .1                      | 1       | .0                      | 0       |
| 1122         | .1                      | 1       | .0                      | 0       |
| 1126         | .1                      | 1       | .0                      | 0       |
| 1130         | .2                      | 1       | .0                      | 0       |
| 1215         | .2                      | 2       | .0                      | 0       |

TABLE B-2  
 FOREST SERVICE - REGION 6 - FIRES SORTED BY NUMBER OF LIGHTNING-CAUSED FIRES

| PERCENT-<br>ILE | RANK | DATE<br>YRMMDD | 80-89<br>HUMAN-<br>CAUSED | 70-89<br>LIGHTNING<br>CAUSED | LIGHT.<br>CAUSED<br>CLASS C | LIGHT.<br>CAUSED<br>CLASS D | LIGHT.<br>CAUSED<br>CLASS E | LIGHT.<br>CAUSED<br>CLASS F | LIGHT.<br>CAUSED<br>CLASS G | LIGHT.<br>CAUSED<br>CLASS C-G | LIGHT.<br>CAUSED<br>CLASS D-G |
|-----------------|------|----------------|---------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|
| 100.00%         | 1    | 870830         | 8                         | 340                          | 22                          | 11                          | 8                           | 2                           | 3                           | 46                            | 24                            |
| 99.96%          | 2    | 890726         | 4                         | 276                          | 9                           | 2                           | 5                           | 10                          | 4                           | 30                            | 21                            |
| 99.92%          | 3    | 700831         |                           | 259                          | 3                           | 0                           | 0                           | 0                           | 0                           | 3                             | 0                             |
| 99.88%          | 4    | 780726         |                           | 253                          | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 99.84%          | 5    | 860810         | 2                         | 245                          | 26                          | 11                          | 7                           | 6                           | 4                           | 54                            | 28                            |
| 99.80%          | 6    | 700830         |                           | 243                          | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 99.76%          | 7    | 700716         |                           | 229                          | 9                           | 7                           | 1                           | 1                           | 2                           | 20                            | 11                            |
| 99.73%          | 8    | 740729         |                           | 165                          | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 99.69%          | 9    | 860907         | 2                         | 164                          | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 99.65%          | 10   | 860802         | 4                         | 155                          | 11                          | 2                           | 5                           | 1                           | 4                           | 23                            | 12                            |
| 99.61%          | 11   | 890808         | 0                         | 155                          | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 99.57%          | 12   | 770725         |                           | 153                          | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 99.53%          | 13   | 850728         | 4                         | 152                          | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 99.49%          | 14   | 710731         |                           | 132                          | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 99.45%          | 15   | 770814         |                           | 132                          | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 99.41%          | 16   | 870822         | 5                         | 127                          | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 99.37%          | 17   | 710801         |                           | 127                          | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 99.33%          | 18   | 750706         |                           | 126                          | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 99.29%          | 19   | 880812         | 3                         | 122                          | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 99.26%          | 20   | 870614         | 3                         | 120                          | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 99.22%          | 21   | 800731         | 2                         | 115                          | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 99.18%          | 22   | 810819         | 3                         | 115                          | 2                           | 0                           | 1                           | 0                           | 0                           | 3                             | 1                             |
| 99.14%          | 23   | 730719         |                           | 114                          | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 99.10%          | 24   | 880811         | 4                         | 105                          | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 99.06%          | 25   | 870831         | 3                         | 105                          | 1                           | 0                           | 1                           | 2                           | 0                           | 4                             | 3                             |
| 99.02%          | 26   | 720724         |                           | 102                          | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 98.98%          | 27   | 710730         |                           | 99                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 98.94%          | 28   | 850827         | 4                         | 99                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 98.90%          | 29   | 770726         |                           | 97                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 98.86%          | 30   | 760803         |                           | 97                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 98.82%          | 31   | 870701         | 2                         | 94                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 98.78%          | 32   | 770813         |                           | 93                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 98.75%          | 33   | 700704         |                           | 88                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 98.71%          | 34   | 890714         | 1                         | 87                           | 2                           | 0                           | 1                           | 0                           | 0                           | 3                             | 1                             |
| 98.67%          | 35   | 750914         |                           | 85                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 98.63%          | 36   | 780804         |                           | 85                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 98.59%          | 37   | 730813         |                           | 84                           | 1                           | 1                           | 0                           | 0                           | 0                           | 2                             | 1                             |
| 98.55%          | 38   | 890806         | 2                         | 83                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 98.51%          | 39   | 870629         | 2                         | 82                           | 1                           | 1                           | 0                           | 0                           | 0                           | 2                             | 1                             |
| 98.47%          | 40   | 770802         |                           | 80                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 98.43%          | 41   | 770805         |                           | 80                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 98.39%          | 42   | 850729         | 6                         | 78                           | 1                           | 1                           | 0                           | 0                           | 0                           | 2                             | 1                             |
| 98.35%          | 43   | 770807         |                           | 77                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 98.31%          | 44   | 720809         |                           | 76                           | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 98.28%          | 45   | 780725         |                           | 75                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 98.24%          | 46   | 700623         |                           | 73                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |

TABLE B-2 (Con't)  
 FOREST SERVICE - REGION 6 - FIRES SORTED BY NUMBER OF LIGHTNING-CAUSED FIRES

| PERCENT-<br>ILE | RANK | DATE<br>YRMMDD | 80-89<br>HUMAN-<br>CAUSED | 70-89<br>LIGHTNING<br>CAUSED | LIGHT.<br>CAUSED<br>CLASS C | LIGHT.<br>CAUSED<br>CLASS D | LIGHT.<br>CAUSED<br>CLASS E | LIGHT.<br>CAUSED<br>CLASS F | LIGHT.<br>CAUSED<br>CLASS G | LIGHT.<br>CAUSED<br>CLASS C-G | LIGHT.<br>CAUSED<br>CLASS D-G |
|-----------------|------|----------------|---------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|
| 98.20%          | 47   | 820820         | 2                         | 72                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 98.16%          | 48   | 750710         |                           | 72                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 98.12%          | 49   | 720731         |                           | 71                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 98.08%          | 50   | 870823         | 8                         | 71                           | 0                           | 1                           | 2                           | 0                           | 0                           | 3                             | 3                             |
| 98.04%          | 51   | 810917         | 7                         | 71                           | 1                           | 1                           | 0                           | 0                           | 0                           | 2                             | 1                             |
| 98.00%          | 52   | 860816         | 3                         | 71                           | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 97.96%          | 53   | 740727         |                           | 70                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 97.92%          | 54   | 770821         |                           | 69                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 97.88%          | 55   | 700824         |                           | 69                           | 6                           | 3                           | 1                           | 2                           | 3                           | 15                            | 9                             |
| 97.84%          | 56   | 810814         | 4                         | 69                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 97.80%          | 57   | 750707         |                           | 68                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 97.77%          | 58   | 710802         |                           | 68                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 97.73%          | 59   | 770607         |                           | 68                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 97.69%          | 60   | 840805         | 3                         | 67                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 97.65%          | 61   | 840801         | 1                         | 66                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 97.61%          | 62   | 890810         | 2                         | 66                           | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 97.57%          | 63   | 860811         | 3                         | 65                           | 15                          | 0                           | 2                           | 1                           | 0                           | 18                            | 3                             |
| 97.53%          | 64   | 890807         | 3                         | 65                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 97.49%          | 65   | 751001         |                           | 64                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 97.45%          | 66   | 820808         | 5                         | 62                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 97.41%          | 67   | 720706         |                           | 62                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 97.37%          | 68   | 790817         |                           | 62                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 97.33%          | 69   | 770728         |                           | 61                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 97.30%          | 70   | 880616         | 2                         | 61                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 97.26%          | 71   | 730812         |                           | 61                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 97.22%          | 72   | 770723         |                           | 61                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 97.18%          | 73   | 810820         | 1                         | 60                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 97.14%          | 74   | 700822         |                           | 60                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 97.10%          | 75   | 860828         | 1                         | 60                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 97.06%          | 76   | 810813         | 7                         | 59                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 97.02%          | 77   | 730809         |                           | 59                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 96.98%          | 78   | 750913         |                           | 59                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.94%          | 79   | 700602         |                           | 58                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.90%          | 80   | 700705         |                           | 58                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.86%          | 81   | 750702         |                           | 58                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.82%          | 82   | 700621         |                           | 58                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.79%          | 83   | 720820         |                           | 57                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.75%          | 84   | 780628         |                           | 57                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.71%          | 85   | 850828         | 7                         | 57                           | 8                           | 0                           | 0                           | 1                           | 1                           | 10                            | 2                             |
| 96.67%          | 86   | 860820         | 8                         | 56                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 96.63%          | 87   | 800728         | 2                         | 56                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.59%          | 88   | 750915         |                           | 56                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.55%          | 89   | 700603         |                           | 56                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.51%          | 90   | 890925         | 5                         | 55                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.47%          | 91   | 860822         | 4                         | 54                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.43%          | 92   | 770822         |                           | 54                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |

TABLE B-2 (Con't)  
 FOREST SERVICE - REGION 6 - FIRES SORTED BY NUMBER OF LIGHTNING-CAUSED FIRES

| PERCENT-<br>ILE | RANK | DATE<br>YRMMDD | 80-89<br>HUMAN-<br>CAUSED | 70-89<br>LIGHTNING<br>CAUSED | LIGHT.<br>CAUSED<br>CLASS C | LIGHT.<br>CAUSED<br>CLASS D | LIGHT.<br>CAUSED<br>CLASS E | LIGHT.<br>CAUSED<br>CLASS F | LIGHT.<br>CAUSED<br>CLASS G | LIGHT.<br>CAUSED<br>CLASS C-G | LIGHT.<br>CAUSED<br>CLASS D-G |
|-----------------|------|----------------|---------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|
| 96.39%          | 93   | 760806         |                           | 54                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.35%          | 94   | 700624         |                           | 53                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.32%          | 95   | 820730         | 2                         | 52                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.28%          | 96   | 780805         |                           | 52                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.24%          | 97   | 700901         |                           | 51                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.20%          | 98   | 880814         | 7                         | 51                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 96.16%          | 99   | 770727         |                           | 51                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.12%          | 100  | 790823         |                           | 51                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.08%          | 101  | 730622         |                           | 51                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.04%          | 102  | 750916         |                           | 51                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 96.00%          | 103  | 790816         |                           | 50                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 95.96%          | 104  | 700715         |                           | 50                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 95.92%          | 105  | 820618         | 7                         | 50                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 95.88%          | 106  | 770806         |                           | 50                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 95.84%          | 107  | 830731         | 3                         | 49                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 95.81%          | 108  | 820619         | 6                         | 49                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 95.77%          | 109  | 720707         |                           | 48                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 95.73%          | 110  | 750709         |                           | 48                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 95.69%          | 111  | 880813         | 6                         | 47                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 95.65%          | 112  | 860628         | 1                         | 47                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 95.61%          | 113  | 790719         |                           | 46                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 95.57%          | 114  | 750711         |                           | 46                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 95.53%          | 115  | 720808         |                           | 46                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 95.49%          | 116  | 700829         |                           | 46                           | 1                           | 1                           | 0                           | 0                           | 0                           | 2                             | 1                             |
| 95.45%          | 117  | 740719         |                           | 46                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 95.41%          | 118  | 730810         |                           | 45                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 95.37%          | 119  | 750712         |                           | 45                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 95.34%          | 120  | 780727         |                           | 45                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 95.30%          | 121  | 890719         | 1                         | 45                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 95.26%          | 122  | 720811         |                           | 45                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 95.22%          | 123  | 720904         |                           | 44                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 95.18%          | 124  | 720815         |                           | 44                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 95.14%          | 125  | 840802         | 4                         | 44                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 95.10%          | 126  | 750705         |                           | 44                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 95.06%          | 127  | 790626         |                           | 44                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 95.02%          | 128  | 810818         | 6                         | 42                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 94.98%          | 129  | 820728         | 3                         | 42                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 94.94%          | 130  | 840731         | 3                         | 41                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 94.90%          | 131  | 770724         |                           | 41                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 94.86%          | 132  | 790728         |                           | 40                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 94.83%          | 133  | 840830         | 2                         | 40                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 94.79%          | 134  | 890809         | 4                         | 39                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 94.75%          | 135  | 720819         |                           | 39                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 94.71%          | 136  | 700626         |                           | 39                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 94.67%          | 137  | 720821         |                           | 39                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 94.63%          | 138  | 840729         | 4                         | 39                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |

TABLE B-2 (Con't)  
 FOREST SERVICE - REGION 6 - FIRES SORTED BY NUMBER OF LIGHTNING-CAUSED FIRES

| PERCENT-<br>ILE | RANK | DATE<br>YRMMDD | 80-89<br>HUMAN-<br>CAUSED | 70-89<br>LIGHTNING<br>CAUSED | LIGHT.<br>CAUSED<br>CLASS C | LIGHT.<br>CAUSED<br>CLASS D | LIGHT.<br>CAUSED<br>CLASS E | LIGHT.<br>CAUSED<br>CLASS F | LIGHT.<br>CAUSED<br>CLASS G | LIGHT.<br>CAUSED<br>CLASS C-G | LIGHT.<br>CAUSED<br>CLASS D-G |
|-----------------|------|----------------|---------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|
| 94.59%          | 139  | 840724         | 3                         | 39                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 94.55%          | 140  | 840809         | 3                         | 39                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 94.51%          | 141  | 761002         |                           | 38                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 94.47%          | 142  | 890812         | 3                         | 38                           | 1                           | 1                           | 0                           | 0                           | 0                           | 2                             | 1                             |
| 94.43%          | 143  | 740619         |                           | 38                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 94.39%          | 144  | 770812         |                           | 38                           | 2                           | 1                           | 0                           | 1                           | 0                           | 4                             | 2                             |
| 94.36%          | 145  | 700823         |                           | 38                           | 5                           | 1                           | 1                           | 0                           | 0                           | 7                             | 2                             |
| 94.32%          | 146  | 770820         |                           | 38                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 94.28%          | 147  | 740805         |                           | 38                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 94.24%          | 148  | 830719         | 1                         | 37                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 94.20%          | 149  | 740728         |                           | 37                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 94.16%          | 150  | 810918         | 3                         | 37                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 94.12%          | 151  | 710803         |                           | 37                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 94.08%          | 152  | 860829         | 2                         | 37                           | 3                           | 0                           | 0                           | 0                           | 0                           | 3                             | 0                             |
| 94.04%          | 153  | 870628         | 6                         | 37                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 94.00%          | 154  | 870508         | 0                         | 37                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 93.96%          | 155  | 750708         |                           | 36                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 93.92%          | 156  | 880824         | 7                         | 36                           | 3                           | 1                           | 0                           | 2                           | 1                           | 7                             | 4                             |
| 93.88%          | 157  | 860602         | 2                         | 35                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 93.85%          | 158  | 700703         |                           | 35                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 93.81%          | 159  | 720816         |                           | 35                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 93.77%          | 160  | 840829         | 11                        | 35                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 93.73%          | 161  | 840810         | 4                         | 35                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 93.69%          | 162  | 770804         |                           | 35                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 93.65%          | 163  | 730803         |                           | 35                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 93.61%          | 164  | 820620         | 6                         | 34                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 93.57%          | 165  | 870720         | 3                         | 34                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 93.53%          | 166  | 740620         |                           | 34                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 93.49%          | 167  | 740804         |                           | 34                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 93.45%          | 168  | 770803         |                           | 33                           | 0                           | 1                           | 2                           | 0                           | 1                           | 4                             | 4                             |
| 93.41%          | 169  | 720810         |                           | 33                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 93.38%          | 170  | 700717         |                           | 33                           | 3                           | 0                           | 0                           | 0                           | 0                           | 3                             | 0                             |
| 93.34%          | 171  | 700728         |                           | 33                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 93.30%          | 172  | 730515         |                           | 33                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 93.26%          | 173  | 770722         |                           | 33                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 93.22%          | 174  | 770808         |                           | 33                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 93.18%          | 175  | 860624         | 6                         | 32                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 93.14%          | 176  | 790815         |                           | 32                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 93.10%          | 177  | 710831         |                           | 32                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 93.06%          | 178  | 870604         | 0                         | 32                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 93.02%          | 179  | 820729         | 2                         | 32                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 92.98%          | 180  | 870721         | 1                         | 32                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 92.94%          | 181  | 860821         | 5                         | 31                           | 0                           | 0                           | 0                           | 1                           | 0                           | 1                             | 1                             |
| 92.90%          | 182  | 800812         | 6                         | 31                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 92.87%          | 183  | 740802         |                           | 31                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 92.83%          | 184  | 770817         |                           | 31                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |

TABLE B-2 (Con't)  
 FOREST SERVICE - REGION 6 - FIRES SORTED BY NUMBER OF LIGHTNING-CAUSED FIRES

| PERCENT-<br>ILE | RANK | DATE<br>YRMMDD | 80-89<br>HUMAN-<br>CAUSED | 70-89<br>LIGHTNING<br>CAUSED | LIGHT.<br>CAUSED<br>CLASS C | LIGHT.<br>CAUSED<br>CLASS D | LIGHT.<br>CAUSED<br>CLASS E | LIGHT.<br>CAUSED<br>CLASS F | LIGHT.<br>CAUSED<br>CLASS G | LIGHT.<br>CAUSED<br>CLASS C-G | LIGHT.<br>CAUSED<br>CLASS D-G |
|-----------------|------|----------------|---------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|
| 92.79%          | 185  | 840812         | 2                         | 31                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 92.75%          | 186  | 730514         |                           | 31                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 92.71%          | 187  | 850730         | 2                         | 31                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 92.67%          | 188  | 740618         |                           | 31                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 92.63%          | 189  | 820809         | 2                         | 31                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 92.59%          | 190  | 850731         | 0                         | 31                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 92.55%          | 191  | 770815         |                           | 31                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 92.51%          | 192  | 710829         |                           | 30                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 92.47%          | 193  | 790718         |                           | 30                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 92.43%          | 194  | 780715         |                           | 30                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 92.40%          | 195  | 780806         |                           | 30                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 92.36%          | 196  | 770608         |                           | 30                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 92.32%          | 197  | 880615         | 4                         | 30                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 92.28%          | 198  | 780728         |                           | 29                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 92.24%          | 199  | 870724         | 2                         | 29                           | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 92.20%          | 200  | 840728         | 1                         | 29                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 92.16%          | 201  | 760802         |                           | 29                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 92.12%          | 202  | 760805         |                           | 29                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 92.08%          | 203  | 860806         | 4                         | 29                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 92.04%          | 204  | 790627         |                           | 29                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 92.00%          | 205  | 870630         | 4                         | 29                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 91.96%          | 206  | 760724         |                           | 28                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 91.92%          | 207  | 870714         | 9                         | 28                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 91.89%          | 208  | 710830         |                           | 28                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 91.85%          | 209  | 720801         |                           | 28                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 91.81%          | 210  | 820807         | 4                         | 27                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 91.77%          | 211  | 870427         | 1                         | 27                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 91.73%          | 212  | 700727         |                           | 27                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 91.69%          | 213  | 700622         |                           | 27                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 91.65%          | 214  | 820621         | 2                         | 27                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 91.61%          | 215  | 780629         |                           | 27                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 91.57%          | 216  | 730720         |                           | 26                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 91.53%          | 217  | 820821         | 5                         | 26                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 91.49%          | 218  | 850826         | 6                         | 26                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 91.45%          | 219  | 740615         |                           | 26                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 91.42%          | 220  | 850708         | 3                         | 26                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 91.38%          | 221  | 720730         |                           | 25                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 91.34%          | 222  | 860801         | 3                         | 25                           | 2                           | 1                           | 0                           | 0                           | 0                           | 3                             | 1                             |
| 91.30%          | 223  | 720818         |                           | 25                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 91.26%          | 224  | 700902         |                           | 25                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 91.22%          | 225  | 790706         |                           | 25                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 91.18%          | 226  | 740730         |                           | 24                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 91.14%          | 227  | 770606         |                           | 24                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 91.10%          | 228  | 720829         |                           | 24                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 91.06%          | 229  | 800811         | 5                         | 24                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 91.02%          | 230  | 780707         |                           | 23                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |

TABLE B-2 (Con't)  
 FOREST SERVICE - REGION 6 - FIRES SORTED BY NUMBER OF LIGHTNING-CAUSED FIRES

| PERCENT-<br>ILE | RANK | DATE<br>YRMMDD | 80-89<br>HUMAN-<br>CAUSED | 70-89<br>LIGHTNING<br>CAUSED | LIGHT.<br>CAUSED<br>CLASS C | LIGHT.<br>CAUSED<br>CLASS D | LIGHT.<br>CAUSED<br>CLASS E | LIGHT.<br>CAUSED<br>CLASS F | LIGHT.<br>CAUSED<br>CLASS G | LIGHT.<br>CAUSED<br>CLASS C-G | LIGHT.<br>CAUSED<br>CLASS D-G |
|-----------------|------|----------------|---------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|
| 90.98%          | 231  | 870901         | 5                         | 23                           | 1                           | 0                           | 0                           | 1                           | 0                           | 2                             | 1                             |
| 90.94%          | 232  | 790826         |                           | 23                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 90.91%          | 233  | 730802         |                           | 23                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 90.87%          | 234  | 830723         | 1                         | 23                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 90.83%          | 235  | 890715         | 2                         | 23                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 90.79%          | 236  | 870626         | 4                         | 23                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 90.75%          | 237  | 700710         |                           | 23                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 90.71%          | 238  | 730721         |                           | 23                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 90.67%          | 239  | 730623         |                           | 23                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 90.63%          | 240  | 720903         |                           | 23                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 90.59%          | 241  | 800729         | 6                         | 23                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 90.55%          | 242  | 840803         | 1                         | 23                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 90.51%          | 243  | 830720         | 3                         | 22                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 90.47%          | 244  | 890829         | 1                         | 22                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 90.44%          | 245  | 790707         |                           | 22                           | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 90.40%          | 246  | 720705         |                           | 22                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 90.36%          | 247  | 830825         | 1                         | 22                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 90.32%          | 248  | 750807         |                           | 22                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 90.28%          | 249  | 780808         |                           | 22                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 90.24%          | 250  | 820622         | 1                         | 22                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 90.20%          | 251  | 740801         |                           | 22                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 90.16%          | 252  | 870723         | 0                         | 22                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 90.12%          | 253  | 710807         |                           | 21                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 90.08%          | 254  | 870725         | 1                         | 21                           | 1                           | 0                           | 1                           | 0                           | 0                           | 2                             | 1                             |
| 90.04%          | 255  | 790720         |                           | 21                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 90.00%          | 256  | 750602         |                           | 21                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.96%          | 257  | 860803         | 5                         | 21                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.93%          | 258  | 720721         |                           | 21                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.89%          | 259  | 830722         | 1                         | 21                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.85%          | 260  | 860721         | 1                         | 21                           | 0                           | 1                           | 0                           | 1                           | 0                           | 2                             | 2                             |
| 89.81%          | 261  | 820624         | 1                         | 20                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.77%          | 262  | 710827         |                           | 20                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.73%          | 263  | 840723         | 5                         | 20                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.69%          | 264  | 800709         | 2                         | 20                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.65%          | 265  | 850818         | 1                         | 20                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.61%          | 266  | 820623         | 4                         | 20                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.57%          | 267  | 870507         | 0                         | 20                           | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 89.53%          | 268  | 840725         | 1                         | 20                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.49%          | 269  | 720606         |                           | 20                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.46%          | 270  | 770613         |                           | 20                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.42%          | 271  | 720902         |                           | 20                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.38%          | 272  | 740706         |                           | 20                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.34%          | 273  | 720607         |                           | 20                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.30%          | 274  | 770819         |                           | 19                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.26%          | 275  | 810801         | 5                         | 19                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 89.22%          | 276  | 850619         | 4                         | 19                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |



TABLE B-2 (Con't)  
 FOREST SERVICE - REGION 6 - FIRES SORTED BY NUMBER OF LIGHTNING-CAUSED FIRES

| PERCENT-<br>ILE | RANK | DATE<br>YRMMDD | 80-89<br>HUMAN-<br>CAUSED | 70-89<br>LIGHTNING<br>CAUSED | LIGHT.<br>CAUSED<br>CLASS C | LIGHT.<br>CAUSED<br>CLASS D | LIGHT.<br>CAUSED<br>CLASS E | LIGHT.<br>CAUSED<br>CLASS F | LIGHT.<br>CAUSED<br>CLASS G | LIGHT.<br>CAUSED<br>CLASS C-G | LIGHT.<br>CAUSED<br>CLASS D-G |
|-----------------|------|----------------|---------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|
| 89.18%          | 277  | 860530         | 2                         | 19                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.14%          | 278  | 720720         |                           | 19                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.10%          | 279  | 790705         |                           | 19                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 89.06%          | 280  | 770816         |                           | 19                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 89.02%          | 281  | 730804         |                           | 19                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.98%          | 282  | 850716         | 6                         | 19                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 88.95%          | 283  | 850801         | 1                         | 19                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.91%          | 284  | 870702         | 1                         | 19                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.87%          | 285  | 780701         |                           | 19                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.83%          | 286  | 890819         | 3                         | 19                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.79%          | 287  | 761001         |                           | 18                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.75%          | 288  | 790818         |                           | 18                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 88.71%          | 289  | 800801         | 4                         | 18                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.67%          | 290  | 710828         |                           | 18                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.63%          | 291  | 820731         | 2                         | 18                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.59%          | 292  | 750713         |                           | 18                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.55%          | 293  | 720814         |                           | 17                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.51%          | 294  | 850710         | 3                         | 17                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.48%          | 295  | 750728         |                           | 17                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.44%          | 296  | 790824         |                           | 17                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.40%          | 297  | 830717         | 3                         | 17                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.36%          | 298  | 780809         |                           | 17                           | 0                           | 0                           | 0                           | 1                           | 0                           | 1                             | 1                             |
| 88.32%          | 299  | 751002         |                           | 17                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.28%          | 300  | 700721         |                           | 17                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.24%          | 301  | 760812         |                           | 17                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.20%          | 302  | 890826         | 2                         | 17                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.16%          | 303  | 770619         |                           | 17                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.12%          | 304  | 720726         |                           | 16                           | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 88.08%          | 305  | 860531         | 2                         | 16                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 88.04%          | 306  | 860613         | 5                         | 16                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 88.00%          | 307  | 870704         | 7                         | 16                           | 0                           | 0                           | 1                           | 0                           | 0                           | 1                             | 1                             |
| 87.97%          | 308  | 700706         |                           | 16                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.93%          | 309  | 790822         |                           | 16                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.89%          | 310  | 700708         |                           | 16                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.85%          | 311  | 860708         | 1                         | 16                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.81%          | 312  | 710716         |                           | 16                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.77%          | 313  | 740726         |                           | 15                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.73%          | 314  | 850817         | 5                         | 15                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.69%          | 315  | 700718         |                           | 15                           | 1                           | 0                           | 0                           | 1                           | 0                           | 2                             | 1                             |
| 87.65%          | 316  | 870824         | 3                         | 15                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.61%          | 317  | 810815         | 4                         | 15                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.57%          | 318  | 810717         | 1                         | 15                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.53%          | 319  | 810817         | 10                        | 15                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.50%          | 320  | 790825         |                           | 15                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.46%          | 321  | 780729         |                           | 15                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.42%          | 322  | 720723         |                           | 15                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |

TABLE B-2 (Con't)  
 FOREST SERVICE - REGION 6 - FIRES SORTED BY NUMBER OF LIGHTNING-CAUSED FIRES

| PERCENT-<br>ILE | RANK | DATE<br>YRMMDD | 80-89<br>HUMAN-<br>CAUSED | 70-89<br>LIGHTNING<br>CAUSED | LIGHT.<br>CAUSED<br>CLASS C | LIGHT.<br>CAUSED<br>CLASS D | LIGHT.<br>CAUSED<br>CLASS E | LIGHT.<br>CAUSED<br>CLASS F | LIGHT.<br>CAUSED<br>CLASS G | LIGHT.<br>CAUSED<br>CLASS C-G | LIGHT.<br>CAUSED<br>CLASS D-G |
|-----------------|------|----------------|---------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|
| 87.38%          | 323  | 820810         | 1                         | 15                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.34%          | 324  | 820822         | 5                         | 15                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 87.30%          | 325  | 710721         |                           | 15                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.26%          | 326  | 780620         |                           | 15                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.22%          | 327  | 720905         |                           | 15                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.18%          | 328  | 800813         | 6                         | 15                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.14%          | 329  | 820726         | 5                         | 15                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.10%          | 330  | 850721         | 5                         | 15                           | 0                           | 0                           | 0                           | 1                           | 0                           | 1                             | 1                             |
| 87.06%          | 331  | 800814         | 2                         | 15                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 87.02%          | 332  | 720608         |                           | 15                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.99%          | 333  | 780807         |                           | 15                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.95%          | 334  | 820727         | 6                         | 14                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.91%          | 335  | 760720         |                           | 14                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.87%          | 336  | 830814         | 5                         | 14                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.83%          | 337  | 840726         | 4                         | 14                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 86.79%          | 338  | 750704         |                           | 14                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.75%          | 339  | 870615         | 1                         | 14                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.71%          | 340  | 850709         | 4                         | 14                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 86.67%          | 341  | 890713         | 2                         | 14                           | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 86.63%          | 342  | 700709         |                           | 14                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.59%          | 343  | 770818         |                           | 14                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.55%          | 344  | 730914         |                           | 14                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.52%          | 345  | 840806         | 5                         | 14                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 86.48%          | 346  | 830810         | 4                         | 14                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.44%          | 347  | 760804         |                           | 13                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.40%          | 348  | 740731         |                           | 13                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.36%          | 349  | 770809         |                           | 13                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.32%          | 350  | 700607         |                           | 13                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.28%          | 351  | 790625         |                           | 13                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.24%          | 352  | 700620         |                           | 13                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.20%          | 353  | 780621         |                           | 13                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.16%          | 354  | 840727         | 0                         | 13                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.12%          | 355  | 830730         | 1                         | 13                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.08%          | 356  | 840804         | 2                         | 13                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 86.04%          | 357  | 800730         | 2                         | 13                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 86.01%          | 358  | 780630         |                           | 13                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 85.97%          | 359  | 870722         | 1                         | 13                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 85.93%          | 360  | 790721         |                           | 13                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 85.89%          | 361  | 830528         | 33                        | 13                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 85.85%          | 362  | 730913         |                           | 13                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 85.81%          | 363  | 840818         | 2                         | 13                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 85.77%          | 364  | 810822         | 7                         | 12                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 85.73%          | 365  | 710729         |                           | 12                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 85.69%          | 366  | 730814         |                           | 12                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 85.65%          | 367  | 770729         |                           | 12                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 85.61%          | 368  | 770618         |                           | 12                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |

TABLE B-2 (Con't)  
 FOREST SERVICE - REGION 6 - FIRES SORTED BY NUMBER OF LIGHTNING-CAUSED FIRES

| PERCENT-<br>ILE | RANK | DATE<br>YRMMDD | 80-89            | 70-89               | LIGHT.            | LIGHT.            | LIGHT.            | LIGHT.            | LIGHT.            | LIGHT.              | LIGHT.              |   |
|-----------------|------|----------------|------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|---------------------|---|
|                 |      |                | HUMAN-<br>CAUSED | LIGHTNING<br>CAUSED | CAUSED<br>CLASS C | CAUSED<br>CLASS D | CAUSED<br>CLASS E | CAUSED<br>CLASS F | CAUSED<br>CLASS G | CAUSED<br>CLASS C-G | CAUSED<br>CLASS D-G |   |
| 85.57%          | 369  | 770731         |                  | 12                  | 1                 | 0                 | 0                 | 0                 | 0                 | 0                   | 1                   | 0 |
| 85.54%          | 370  | 860614         | 4                | 12                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 85.50%          | 371  | 710808         |                  | 12                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 85.46%          | 372  | 890830         | 1                | 12                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 85.42%          | 373  | 730718         |                  | 12                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 85.38%          | 374  | 740827         |                  | 12                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 85.34%          | 375  | 800702         | 1                | 12                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 85.30%          | 376  | 720817         |                  | 12                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 85.26%          | 377  | 710810         |                  | 12                  | 0                 | 0                 | 1                 | 0                 | 0                 | 0                   | 1                   | 1 |
| 85.22%          | 378  | 770612         |                  | 12                  | 1                 | 0                 | 0                 | 0                 | 0                 | 0                   | 1                   | 0 |
| 85.18%          | 379  | 790814         |                  | 12                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 85.14%          | 380  | 710806         |                  | 11                  | 1                 | 0                 | 0                 | 0                 | 0                 | 0                   | 1                   | 0 |
| 85.10%          | 381  | 740807         |                  | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 85.06%          | 382  | 860915         | 1                | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 85.03%          | 383  | 810718         | 4                | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.99%          | 384  | 830608         | 0                | 11                  | 1                 | 0                 | 0                 | 0                 | 0                 | 0                   | 1                   | 0 |
| 84.95%          | 385  | 710717         |                  | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.91%          | 386  | 840920         | 2                | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.87%          | 387  | 700606         |                  | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.83%          | 388  | 790821         |                  | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.79%          | 389  | 740616         |                  | 11                  | 1                 | 0                 | 0                 | 0                 | 0                 | 0                   | 1                   | 0 |
| 84.75%          | 390  | 830718         | 1                | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.71%          | 391  | 761003         |                  | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.67%          | 392  | 740803         |                  | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.63%          | 393  | 820824         | 5                | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.59%          | 394  | 750703         |                  | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.56%          | 395  | 880620         | 1                | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.52%          | 396  | 700719         |                  | 11                  | 1                 | 0                 | 1                 | 0                 | 0                 | 0                   | 2                   | 1 |
| 84.48%          | 397  | 850720         | 8                | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.44%          | 398  | 800909         | 5                | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.40%          | 399  | 760620         |                  | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.36%          | 400  | 780622         |                  | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.32%          | 401  | 710809         |                  | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.28%          | 402  | 760719         |                  | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.24%          | 403  | 890710         | 3                | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.20%          | 404  | 800815         | 4                | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.16%          | 405  | 760807         |                  | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.12%          | 406  | 700604         |                  | 11                  | 1                 | 0                 | 0                 | 0                 | 0                 | 0                   | 1                   | 0 |
| 84.08%          | 407  | 710708         |                  | 11                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 84.05%          | 408  | 850717         | 2                | 10                  | 1                 | 0                 | 0                 | 0                 | 0                 | 0                   | 1                   | 0 |
| 84.01%          | 409  | 850707         | 8                | 10                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 83.97%          | 410  | 760829         |                  | 10                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 83.93%          | 411  | 770721         |                  | 10                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 83.89%          | 412  | 800808         | 5                | 10                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 83.85%          | 413  | 730530         |                  | 10                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |
| 83.81%          | 414  | 830813         | 3                | 10                  | 0                 | 0                 | 0                 | 0                 | 0                 | 0                   | 0                   | 0 |

TABLE B-2 (Con't)  
 FOREST SERVICE - REGION 6 - FIRES SORTED BY NUMBER OF LIGHTNING-CAUSED FIRES

| PERCENT-<br>ILE | RANK | DATE<br>YRMMDD | 80-89<br>HUMAN-<br>CAUSED | 70-89<br>LIGHTNING<br>CAUSED | LIGHT.<br>CAUSED<br>CLASS C | LIGHT.<br>CAUSED<br>CLASS D | LIGHT.<br>CAUSED<br>CLASS E | LIGHT.<br>CAUSED<br>CLASS F | LIGHT.<br>CAUSED<br>CLASS G | LIGHT.<br>CAUSED<br>CLASS C-G | LIGHT.<br>CAUSED<br>CLASS D-G |
|-----------------|------|----------------|---------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|
| 83.77%          | 415  | 850805         | 1                         | 10                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 83.73%          | 416  | 720812         |                           | 10                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 83.69%          | 417  | 740718         |                           | 10                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 83.65%          | 418  | 850821         | 5                         | 10                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 83.61%          | 419  | 800708         | 2                         | 10                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 83.58%          | 420  | 860601         | 1                         | 10                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 83.54%          | 421  | 750601         |                           | 10                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 83.50%          | 422  | 890603         | 3                         | 10                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 83.46%          | 423  | 740708         |                           | 10                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 83.42%          | 424  | 720603         |                           | 10                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 83.38%          | 425  | 880823         | 8                         | 10                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 83.34%          | 426  | 830827         | 2                         | 10                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| 83.30%          | 427  | 840914         | 3                         | 10                           | 0                           | 0                           | 0                           | 0                           | 0                           | 0                             | 0                             |
| TABLE TOTALS =  |      |                | 641                       | 16,951                       | 223                         | 58                          | 41                          | 35                          | 23                          | 380                           | 157                           |
| OTHER TOTALS =  |      |                | 4,050                     | 3,343                        | 35                          | 5                           | 2                           | 2                           | 3                           | 47                            | 12                            |
| GRAND TOTALS =  |      |                | 4,691                     | 20,294                       | 258                         | 63                          | 43                          | 37                          | 26                          | 427                           | 169                           |

TABLE B-3

## FOREST SERVICE - REGION 6 - FIRES SORTED BY NUMBER OF CLASS C-G LIGHTNING-CAUSED FIRES

| DATE<br>YRMMDD | 80-89<br>HUMAN-<br>CAUSED | 70-89<br>LIGHTNING<br>CAUSED | LIGHT.<br>CAUSED<br>CLASS C | LIGHT.<br>CAUSED<br>CLASS D | LIGHT.<br>CAUSED<br>CLASS E | LIGHT.<br>CAUSED<br>CLASS F | LIGHT.<br>CAUSED<br>CLASS G | LIGHT.<br>CAUSED<br>CLASS C-G | LIGHT.<br>CAUSED<br>CLASS D-G |
|----------------|---------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|
| 860810         | 2                         | 245                          | 26                          | 11                          | 7                           | 6                           | 4                           | 54                            | 28                            |
| 870830         | 8                         | 340                          | 22                          | 11                          | 8                           | 2                           | 3                           | 46                            | 24                            |
| 890726         | 4                         | 276                          | 9                           | 2                           | 5                           | 10                          | 4                           | 30                            | 21                            |
| 860802         | 4                         | 155                          | 11                          | 2                           | 5                           | 1                           | 4                           | 23                            | 12                            |
| 700716         |                           | 229                          | 9                           | 7                           | 1                           | 1                           | 2                           | 20                            | 11                            |
| 860811         | 3                         | 65                           | 15                          | 0                           | 2                           | 1                           | 0                           | 18                            | 3                             |
| 700824         |                           | 69                           | 6                           | 3                           | 1                           | 2                           | 3                           | 15                            | 9                             |
| 850828         | 7                         | 57                           | 8                           | 0                           | 0                           | 1                           | 1                           | 10                            | 2                             |
| 700823         |                           | 38                           | 5                           | 1                           | 1                           | 0                           | 0                           | 7                             | 2                             |
| 880824         | 7                         | 36                           | 3                           | 1                           | 0                           | 2                           | 1                           | 7                             | 4                             |
| 770812         |                           | 38                           | 2                           | 1                           | 0                           | 1                           | 0                           | 4                             | 2                             |
| 770803         |                           | 33                           | 0                           | 1                           | 2                           | 0                           | 1                           | 4                             | 4                             |
| 870831         | 3                         | 105                          | 1                           | 0                           | 1                           | 2                           | 0                           | 4                             | 3                             |
| 890714         | 1                         | 87                           | 2                           | 0                           | 1                           | 0                           | 0                           | 3                             | 1                             |
| 860801         | 3                         | 25                           | 2                           | 1                           | 0                           | 0                           | 0                           | 3                             | 1                             |
| 870823         | 8                         | 71                           | 0                           | 1                           | 2                           | 0                           | 0                           | 3                             | 3                             |
| 860829         | 2                         | 37                           | 3                           | 0                           | 0                           | 0                           | 0                           | 3                             | 0                             |
| 700717         |                           | 33                           | 3                           | 0                           | 0                           | 0                           | 0                           | 3                             | 0                             |
| 810819         | 3                         | 115                          | 2                           | 0                           | 1                           | 0                           | 0                           | 3                             | 1                             |
| 700831         |                           | 259                          | 3                           | 0                           | 0                           | 0                           | 0                           | 3                             | 0                             |
| 880811         | 4                         | 105                          | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 820821         | 5                         | 26                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 700719         |                           | 11                           | 1                           | 0                           | 1                           | 0                           | 0                           | 2                             | 1                             |
| 870725         | 1                         | 21                           | 1                           | 0                           | 1                           | 0                           | 0                           | 2                             | 1                             |
| 860820         | 8                         | 56                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 850708         | 3                         | 26                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 730813         |                           | 84                           | 1                           | 1                           | 0                           | 0                           | 0                           | 2                             | 1                             |
| 850716         | 6                         | 19                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 890806         | 2                         | 83                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 730810         |                           | 45                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 870629         | 2                         | 82                           | 1                           | 1                           | 0                           | 0                           | 0                           | 2                             | 1                             |
| 700718         |                           | 15                           | 1                           | 0                           | 0                           | 1                           | 0                           | 2                             | 1                             |
| 840809         | 3                         | 39                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 800730         | 2                         | 13                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 700822         |                           | 60                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 870901         | 5                         | 23                           | 1                           | 0                           | 0                           | 1                           | 0                           | 2                             | 1                             |
| 850729         | 6                         | 78                           | 1                           | 1                           | 0                           | 0                           | 0                           | 2                             | 1                             |
| 850827         | 4                         | 99                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 870714         | 9                         | 28                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 820822         | 5                         | 15                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 890812         | 3                         | 38                           | 1                           | 1                           | 0                           | 0                           | 0                           | 2                             | 1                             |
| 860721         | 1                         | 21                           | 0                           | 1                           | 0                           | 1                           | 0                           | 2                             | 2                             |
| 890715         | 2                         | 23                           | 2                           | 0                           | 0                           | 0                           | 0                           | 2                             | 0                             |
| 700829         |                           | 46                           | 1                           | 1                           | 0                           | 0                           | 0                           | 2                             | 1                             |
| 810917         | 7                         | 71                           | 1                           | 1                           | 0                           | 0                           | 0                           | 2                             | 1                             |
| 790704         |                           | 8                            | 0                           | 0                           | 0                           | 1                           | 0                           | 1                             | 1                             |
| 890713         | 2                         | 14                           | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |

TABLE B-3 (Con't)

## FOREST SERVICE - REGION 6 - FIRES SORTED BY NUMBER OF CLASS C-G LIGHTNING-CAUSED FIRES

| DATE<br>YRMMDD | 80-89<br>HUMAN-<br>CAUSED | 70-89<br>LIGHTNING<br>CAUSED | LIGHT.<br>CAUSED<br>CLASS C | LIGHT.<br>CAUSED<br>CLASS D | LIGHT.<br>CAUSED<br>CLASS E | LIGHT.<br>CAUSED<br>CLASS F | LIGHT.<br>CAUSED<br>CLASS G | LIGHT.<br>CAUSED<br>CLASS C-G | LIGHT.<br>CAUSED<br>CLASS D-G |
|----------------|---------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|
| 820820         | 2                         | 72                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 850709         | 4                         | 14                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 720731         |                           | 71                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 840726         | 4                         | 14                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 810825         | 9                         | 3                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 830731         | 3                         | 49                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 860722         | 2                         | 3                            | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 850721         | 5                         | 15                           | 0                           | 0                           | 0                           | 1                           | 0                           | 1                             | 1                             |
| 720809         |                           | 76                           | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 870923         | 2                         | 1                            | 0                           | 0                           | 1                           | 0                           | 0                           | 1                             | 1                             |
| 700825         |                           | 4                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 870701         | 2                         | 94                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 880825         | 1                         | 4                            | 0                           | 0                           | 0                           | 0                           | 1                           | 1                             | 1                             |
| 870704         | 7                         | 16                           | 0                           | 0                           | 1                           | 0                           | 0                           | 1                             | 1                             |
| 860812         | 4                         | 4                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 860531         | 2                         | 16                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 810531         | 0                         | 3                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 720726         |                           | 16                           | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 751001         |                           | 64                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 780809         |                           | 17                           | 0                           | 0                           | 0                           | 1                           | 0                           | 1                             | 1                             |
| 870902         | 1                         | 5                            | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 720808         |                           | 46                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 840816         | 3                         | 6                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 890909         | 2                         | 1                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 730812         |                           | 61                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 740719         |                           | 46                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 870613         | 4                         | 7                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 811024         | 2                         | 1                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 860529         | 3                         | 7                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 750712         |                           | 45                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 730809         |                           | 59                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 790818         |                           | 18                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 850711         | 4                         | 7                            | 0                           | 0                           | 1                           | 0                           | 0                           | 1                             | 1                             |
| 820603         | 3                         | 1                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 840810         | 4                         | 35                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 770816         |                           | 19                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 730816         |                           | 8                            | 0                           | 0                           | 0                           | 0                           | 1                           | 1                             | 1                             |
| 810801         | 5                         | 19                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 700722         |                           | 3                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 870507         | 0                         | 20                           | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 840811         | 6                         | 9                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 700814         |                           | 1                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 850805         | 1                         | 10                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 860729         | 5                         | 1                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 700604         |                           | 11                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 790626         |                           | 44                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 740616         |                           | 11                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |

TABLE B-3 (Con't)  
 FOREST SERVICE - REGION 6 - FIRES SORTED BY NUMBER OF CLASS C-G LIGHTNING-CAUSED FIRES

| DATE<br>YRMMDD | 80-89<br>HUMAN-<br>CAUSED | 70-89<br>LIGHTNING<br>CAUSED | LIGHT.<br>CAUSED<br>CLASS C | LIGHT.<br>CAUSED<br>CLASS D | LIGHT.<br>CAUSED<br>CLASS E | LIGHT.<br>CAUSED<br>CLASS F | LIGHT.<br>CAUSED<br>CLASS G | LIGHT.<br>CAUSED<br>CLASS C-G | LIGHT.<br>CAUSED<br>CLASS D-G |
|----------------|---------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|
| 810818         | 6                         | 42                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 710806         |                           | 11                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 790707         |                           | 22                           | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 710810         |                           | 12                           | 0                           | 0                           | 1                           | 0                           | 0                           | 1                             | 1                             |
| 840731         | 3                         | 41                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 770731         |                           | 12                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 890829         | 1                         | 22                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 790716         |                           | 2                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 840803         | 1                         | 23                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 790816         |                           | 50                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 800731         | 2                         | 115                          | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 870813         | 5                         | 3                            | 0                           | 0                           | 0                           | 0                           | 1                           | 1                             | 1                             |
| 860420         | 1                         | 1                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 850523         | 1                         | 3                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 720829         |                           | 24                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 850725         | 9                         | 4                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 750706         |                           | 126                          | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 890810         | 2                         | 66                           | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 880903         | 10                        | 1                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 830529         | 4                         | 5                            | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 870822         | 5                         | 127                          | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 880805         | 4                         | 6                            | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 730720         |                           | 26                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 850726         | 3                         | 3                            | 0                           | 0                           | 0                           | 1                           | 0                           | 1                             | 1                             |
| 870828         | 9                         | 1                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 770810         |                           | 7                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 890417         | 0                         | 1                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 770801         |                           | 8                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 850728         | 4                         | 152                          | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 790516         |                           | 2                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 740619         |                           | 38                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 850717         | 2                         | 10                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 730708         |                           | 1                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 830608         | 0                         | 11                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 890808         | 0                         | 155                          | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 880814         | 7                         | 51                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 840728         | 1                         | 29                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 840806         | 5                         | 14                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 870724         | 2                         | 29                           | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 860816         | 3                         | 71                           | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 790718         |                           | 30                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 840814         | 4                         | 4                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 710829         |                           | 30                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 850718         | 5                         | 5                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 850730         | 2                         | 31                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 840530         | 1                         | 7                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 770817         |                           | 31                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |

TABLE B-3 (Con't)

## FOREST SERVICE - REGION 6 - FIRES SORTED BY NUMBER OF CLASS C-G LIGHTNING-CAUSED FIRES

| DATE<br>YRMMDD | 80-89<br>HUMAN-<br>CAUSED | 70-89<br>LIGHTNING<br>CAUSED | LIGHT.<br>CAUSED<br>CLASS C | LIGHT.<br>CAUSED<br>CLASS D | LIGHT.<br>CAUSED<br>CLASS E | LIGHT.<br>CAUSED<br>CLASS F | LIGHT.<br>CAUSED<br>CLASS G | LIGHT.<br>CAUSED<br>CLASS C-G | LIGHT.<br>CAUSED<br>CLASS D-G |
|----------------|---------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|
| 871007         | 5                         | 8                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 860907         | 2                         | 164                          | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 820910         | 0                         | 2                            | 0                           | 1                           | 0                           | 0                           | 0                           | 1                             | 1                             |
| 740802         |                           | 31                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 870722         | 1                         | 13                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 860821         | 5                         | 31                           | 0                           | 0                           | 0                           | 1                           | 0                           | 1                             | 1                             |
| 740625         |                           | 3                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 860624         | 6                         | 32                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 860913         | 3                         | 7                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 730821         |                           | 1                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 880823         | 8                         | 10                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 700830         |                           | 243                          | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 860818         | 4                         | 3                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 850504         | 1                         | 1                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 860823         | 4                         | 8                            | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 890807         | 3                         | 65                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 770612         |                           | 12                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |
| 820620         | 6                         | 34                           | 1                           | 0                           | 0                           | 0                           | 0                           | 1                             | 0                             |

## TABLE

|          |     |       |     |    |    |    |    |     |     |
|----------|-----|-------|-----|----|----|----|----|-----|-----|
| TOTALS = | 375 | 6,652 | 258 | 63 | 43 | 37 | 26 | 427 | 169 |
|----------|-----|-------|-----|----|----|----|----|-----|-----|

## OTHER

|          |       |        |   |   |   |   |   |   |   |
|----------|-------|--------|---|---|---|---|---|---|---|
| TOTALS = | 4,316 | 13,642 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|----------|-------|--------|---|---|---|---|---|---|---|

## GRAND

|          |       |        |     |    |    |    |    |     |     |
|----------|-------|--------|-----|----|----|----|----|-----|-----|
| TOTALS = | 4,691 | 20,294 | 258 | 63 | 43 | 37 | 26 | 427 | 169 |
|----------|-------|--------|-----|----|----|----|----|-----|-----|



# APPENDIX C

## Study of Type II Crew Availability in the Pacific NW



## RESOURCE AVAILABILITY

### PACIFIC NORTHWEST COORDINATION GROUP PREPAREDNESS LEVEL STUDY TEAM

Resource availability is the basis of preparedness. Preparedness analysis and decisions are specifically designed to affect resource availability. The resource availability problem can be thought of as an inventory problem. Demand, either current or future, dictates a need for some inventory level necessary to satisfy demand. Supply of resources can be affected by taking actions which either prohibit the demand from occurring, or, which increase the supply of resources available to meet the demand. The actual inventory level (resource availability) created by these actions becomes available to meet the demand placed upon it (the desired inventory). The goal of the preparedness level study is to produce a process which aligns demands with resource availability, either for emergencies or for project work. To achieve this goal, preparedness processes have to initiate actions which cause reduction in demand or increases in availability now, or in the future (Figure 1).

The Study Team has developed a process for defining current resource availability, and, projecting resource availability in the near future (3 days and 10 days from now), as well as the distant future (30 days).

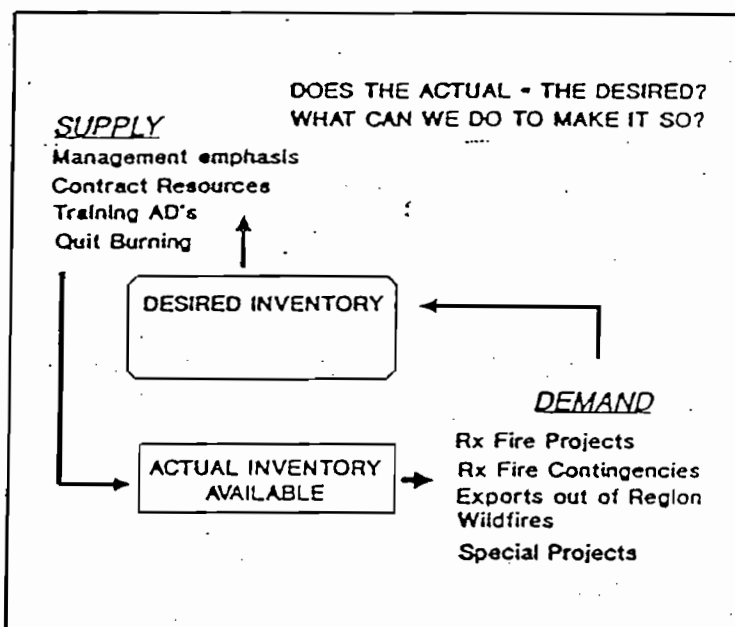


Figure 1

The resource availability analysis process described here is designed to be one piece of a three piece preparedness level determination process. The two other pieces are prescribed fire workload and anticipated fire danger. The resource availability process includes considerations of other potential demands on fire fighting resources, such as special projects known to be scheduled in the future.

#### THE PROCESS:

Before rational decisions can be made about implementing actions which would increase resource availability or decrease demand, the expected resource availability must be estimated. To do so, the current resource availability is determined and anticipated demands are estimated and subtracted from the current availability for each desired time period (3, 10, and 30 days hence).

Tracking and estimating availability on all types of resources would be an overwhelming task. A surrogate for all resources has been chosen, Type II crews. The relationship between Type II crew availability and overhead availability is estimated to be 7:1. Thus, for every Type II Crew available we would expect seven overhead personnel to be available. Therefore, Type II crews serve as an indicator of crews and overhead

available at any given time. Shared resource availability is not tracked specifically, nor were other types of resources, in order to keep the system as simple as possible. National shared resources and demands do influence Regional availability and this process accounts for that influence.

Levels of resource availability have been established as high, moderate, and low. The break points for these levels have been subjectively set at 15 and 30 Type II crews respectively. That is, the break point between Low and Moderate availability is set at 15 crews, and between Moderate and High availability, 30 crews (Figure 2).

The levels are not meant to establish level of concern for unavailability, but rather to simply set levels of availability. Concern will be expressed in the preparedness level determination by a combination of the four factors comprising the level, resource availability, workload from prescribed fire, wildfire workload, and anticipated fire danger. In other words, the goal of preparedness level determination is to establish concern, the goal of the resource availability process is to simply indicate crew supply.

Daily, throughout the period of concern (usually fire season) the Northwest Coordination Center (NWC) will estimate current Type II crew availability by summarizing the responses from the Daily Status Report submitted by all units. The data gathered from this report are recognized as being unreliable in many instances. For example, some crews are reported by two agencies when joint cooperative efforts provide only a single crew comprised of people from both agencies. Availability should be reported by only one agency, not both. The PNWCG Group is urged to emphasize the importance of this reporting process and do all they can to assure that status is reported correctly, accurately, and in a timely fashion. No process is better than its weakest link, and, reporting daily resource status seems to be a very weak link.

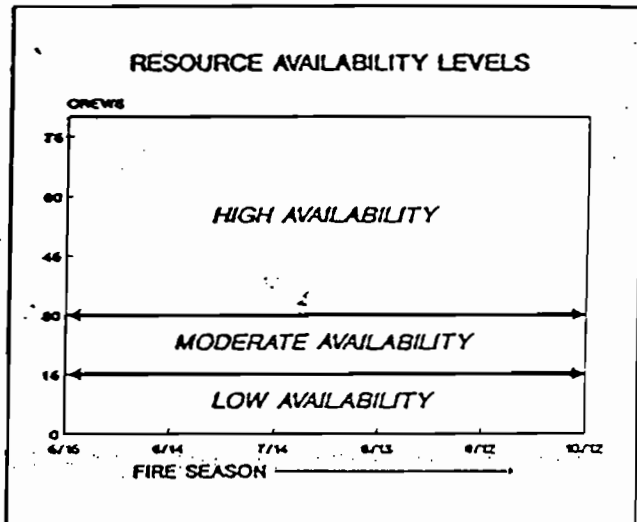


Figure 2

Once the current status is known, estimates of availability are made for 3 days hence, 10 days hence, and 30 days hence. These estimates are derived by subtracting from current availability, crews that might be used in the future. A Crew Availability Worksheet is completed daily to assist in this estimation (Page 4). A discussion of each item on the Worksheet follows:

- Step 1: This step is designed to recognize crew availability for differing periods of the year. Crew availability is less in the pre- and post-season than it is in the peak of fire season. Thus, an adjustment must be made to crew availability if the period under consideration occurs outside the normal season.
- Step 2: A similar adjustment is made in this step as that made in Step 1, except this adjustment is for weekends and holidays.
- Step 3: The historical trend of crew availability is taken into account during this step. As the fire season progress, the number of crews diminish because crew members leave through attrition.
- Step 4: The National situation can greatly influence crew availability by adding to the demand placed upon those resources. Step 4 reviews the NIFCC Planning Level and adjusts crew availability within the

Region based upon anticipated demand for resources from outside the Region (exports). This will be a minus number entered on the worksheet representing the number of crews we anticipate providing NIIFC.

Step 5: This step represents the exact opposite of Step 4. In some situation we can expect to have crews orders filled by crews from other areas and thus receive imports. This step increases crew availability because we can expect to get crews from elsewhere. This number will never be less than zero.

There are no hard and fast rules to determining the estimates needed to arrive at crew availability. We will simply have to rely on the judgement of the individuals making these estimates because predictive data and techniques are lacking. The more experience in coordination and dispatch the estimator has, the more reliable we can expect the estimate to be. Conversely, the less experience in judging availability, the less reliable our inventory estimate will be. We encourage reliable estimates if this process is to be of value.



CREW AVAILABILITY WORKSHEET

DATE: \_\_\_\_\_

NUMBER OF CREWS AVAILABLE TODAY: \_\_\_\_\_

|   | 3 DAYS | 10 DAYS | 30 DAYS      |
|---|--------|---------|--------------|
| 1. SEASONAL FLUCTUATION ADJUSTMENT:<br>Pre-season, post-season, etc.  | _____  | _____   | _____        |
| 2. SPECIAL DAY ADJUSTMENT:<br>Weekend, holiday, etc.  | _____  | _____   | _____        |
| 3. HISTORICAL TREND OF AVAILABILITY:<br>Adjust based upon normal seasonal<br>fluctuations due to attrition.   | _____  | _____   | _____        |
| 4. ADJUSTMENT FOR EXPORTS:<br>Consult the NIIFC Planning Level<br>to estimate the potential draw down<br>due to crews leaving the Region (exports). | _____  | _____   | <u>XXXXX</u> |
| 5. ADJUSTMENT FOR IMPORTS:<br>Consult the NIIFC Planning Level<br>to estimate our ability to import<br>crews that can be added to availability.     | _____  | _____   | <u>XXXXX</u> |
| TOTAL CREWS AVAILABLE:  | _____  | _____   | _____        |
| ADJECTIVE AVAILABILITY LEVEL:   | _____  | _____   | _____        |





## APPENDIX D

Study on the Determination of ERC as a  
Measure of Dryness and the Develop-  
ment of the Severity Projection  
Index for the Pacific NW



## Severity Projection Index

An inter-agency group was established to explore ways to integrate a measure of fire season severity as indicated by some measure of fire danger rating. The group was composed of the following individuals.

Gerry Day, BLM Oregon State Office, (Chair)  
Don Carlton, FS Mt. Hood National Forest  
Bob Dunnagan, NPS Rainier National Park  
Terry Marsha, NWS Salem Fire Weather Office  
Greg Sinnett, WDNR Olympia Fire Weather Office  
John Deeming, Private Consultant  
Ken Snell, FS PNW Regional Office

The group was given the following tasks by the parent group.

1. Identify "sub-regional" areas to be used for contingency planning.
2. Determine an index for expected deviation from a "normal" fire season. The index should include probability and confidence levels if possible.
3. Identify the best method of acquiring the data needed to calculate the index.

### Summary:

"Sub-regional" areas were defined as the seven existing Forest Service fire preparedness zones in Oregon and Washington. These zones will be renamed Interagency Fire Preparedness Zones.

The proposed Severity Projection Index is based upon the an attempt to correlate historical weather data from the National Fire Weather Data Library (NFWDL) with fire occurrence. As a correlation study was not possible in the time frame allocated, professional judgement indicated that the NFDRS Energy Release Component (ERC) would be used. Cooperation with the Intermountain Fire Sciences Laboratory in Missoula indicates that a computer program will be available in the Fall of 1990 to address this correlation.

Projections of the ERC or any other measure of severity was needed. The parent group had indicated that projections 3 days, 10 days, and 30 days into the future was desirable. It was determined to develop computer software which would utilize historical fire weather and fire danger variables from the NFWDL and utilize the FIRDAT computer program. The output of the software would be the probability that the selected measure of severity would be at a Low, Medium, or High level in the future given current fire danger situation. This projection would be made initially only using historical weather as the ability to predict the weather beyond 48 hours is low. The software needed to be flexible enough to allow the use of additional measures of fire season severity besides ERC.

A survey was made of the Region on Inter-agency Preparedness Zone and 47 weather stations were identified by the Agencies to use for determination of weather stations to use. The listing on the next page gives the results of this survey.

Weather Stations Used To Determine The Severity Projection Index

| ZONE FOR | NAME              | AFFIRMS# | YEARS | MODEL GR<br>UP | FRZ   | ZONE TAPE<br>WT | ELEV |
|----------|-------------------|----------|-------|----------------|-------|-----------------|------|
| A        | OLY COUGAR        | 450117   |       | G4P4 4/27      | 10/1  | 30 42-45        | 3000 |
| A        | OLY HUMPTULIPS    | 450312   |       | G4P4 4/27      | 10/1  | 20 42-45        | 2400 |
| A        | MBS FINNEY CR     | 451509   |       | G3P3 4/15      | 10/25 | 25 42-45        | 1900 |
| A        | MBS LESTER        | 451705   |       | G3P3 4/15      | 10/30 | 25 45A-47       | 1615 |
| B        | OKA FIRST BUTTE   | 452006   |       | C2P2 5/1       | 10/15 | 7 45A-47        | 5500 |
| B        | OKA NCSB          | 452030   |       | C2A2 4/1       | 11/1  | 13 45A-47       | 1650 |
| B        | OKA DOUG IRON RDG | 452035   |       | C2P2 5/1       | 10/15 | 13 45A-47       | 3460 |
| B        | WEN ENTIAT        | 452106   |       | C3P2 4/1       | 10/1  | 11 45A-47       | 796  |
| B        | WEN LK WENATCHEE  | 452107   |       | C3P2 4/15      | 10/1  | 11 45A-47       | 2296 |
| B        | WEN SAWMILL       | 452221   |       | C3P2 4/15      | 10/1  | 12 45A-47       | 3500 |
| B        | COL LANE CR       | 452511   |       | C2P2 4/17      | 10/15 | 11 45A-47       | 4500 |
| B        | COL IRON MT       | 452512   |       | C2P2 5/1       | 10/15 | 11 45A-47       | 4325 |
| B        | COL TACOMA CR     | 453413   |       | C2P2 5/1       | 10/15 | 11 45A-47       | 3300 |
| C        | MTH REDBOX        | 350718   |       | G3P3 5/15      | 10/25 | 25 27-35        | 3250 |
| C        | SIU CANNIBAD MT   | 351604   |       | G3P4 5/15      | 10/15 | 25 27-35        | 1946 |
| C        | WIL BOULDER       | 351909   |       | G3P3 5/15      | 10/15 | 17 27-35        | 3570 |
| C        | WIL OAKRIDGE      | 352544   |       | G3P3 4/10      | 10/15 | 9 35A-41        | 1475 |
| C        | GP ORR CREEK      | 451919   |       | G3P3 6/1       | 10/25 | 12 45A-47       | 3000 |
| C        | GP CANYON CR      | 451921   |       | G3P3 6/1       | 10/25 | 12 45A-47       | 2500 |
| D        | OCH HAYSTACK      | 352107   |       | C2P2 3/1       | 10/30 | 6 27-35         | 3240 |
| D        | DES LAVA BUTTE    | 352618   |       | C1P2 4/7       | 10/25 | 25 35A-41       | 4655 |
| D        | OCH COLD SPRINGS  | 352701   |       | C2P2 4/15      | 10/30 | 19 35A-41       | 4695 |
| D        | WIN CALMUS        | 353307   |       | C2P2 5/1       | 10/1  | 13 35A-41       | 6622 |
| D        | WIN CHEMULT       | 353309   |       | C2P2 5/1       | 10/1  | 12 35A-41       | 4758 |
| D        | FRE GERBER        | 353328   |       | C2P1 4/15      | 9/15  | 8 35A-41        | 4940 |
| D        | FRE POT           | 353422   |       | C1P1 4/15      | 9/15  | 8 35A-41        | 5020 |
| D        | FRE STRAWBERRY    | 353423   |       | C2P2 4/15      | 9/15  | 9 35A-41        | 5590 |
| E        | UMA TUPPER        | 351202   |       | C2P2 5/15      | 9/15  | 17 27-35        | 4000 |
| E        | WAW HARL BUTTE    | 351502   |       | C3P2 5/1       | 10/1  | 16 27-35        | 6071 |
| E        | MAL KEENEY        | 352328   |       | C2P2 5/15      | 10/1  | 17 27-35        | 4520 |
| E        | WAW BLUE CANYON   | 352416   |       | C3P2 4/15      | 10/1  | 17 35A-41       | 4200 |
| E        | MAL CROW FLAT     | 353515   |       | C2P2 5/15      | 10/1  | 16 35A-41       | 5130 |
| E        | UMA ALDER         | 453803   |       | C2P2 5/15      | 9/10  | 16 45A-47       | 4500 |
| F        | UMP BALD KNOB     | 352813   |       | G3P3 4/15      | 10/15 | 7 35A-41        | 3630 |
| F        | SIS POWERS        | 352814   |       | G3P3 3/1       | 10/1  | 2 35A-41        | 286  |
| F        | SIS QUAIL PRAIRIE | 352915   |       | G3P3 4/1       | 10/15 | 12 35A-41       | 3033 |
| F        | UMP GRANDAD       | 353036   |       | G3P2 5/15      | 10/15 | 21 35A-41       | 2900 |
| F        | UMP TOKETTE       | 353038   |       | G3P3 5/15      | 10/1  | 13 35A-41       | 3360 |
| F        | SIS IV AIRPORT    | 353115   |       | G3P2 4/1       | 10/1  | 16 35A-41       | 1389 |
| F        | ROR BUCK PEAK     | 353118   |       | G3P2 5/1       | 10/15 | 19 35A-41       | 5243 |
| F        | ROR SQUAW PEAK    | 353213   |       | G3P2 4/15      | 10/1  | 5 35A-41        | 4964 |
| F        | ROR DEAD INDIAN   | 353225   |       | G3P2 5/15      | 10/1  | 5 35A-41        | 5200 |
| G        | PRIN PRINEVILLE   | 352710   |       | T1P1 4/1       | 10/31 | 10 35A-41       | 2850 |
| G        | PRIN SALT CR      | 352712   |       | T1P1 4/1       | 10/31 | 20 35A-41       | 4200 |
| G        | BURN RIDDLE MT    | 353511   |       | T1P1 4/15      | 9/29  | 20 35A-41       | 6281 |
| G        | LAKE FISH FIN     | 353516   |       | T1P1 4/15      | 9/30  | 10 35A-41       | 5100 |
| G        | VALE VALE         | 353603   |       | T1P1 4/10      | 10/31 | 40 35A-41       | 2250 |

The first task was to generate fire weather and fire danger outputs for these weather stations. This was done using the standard FIRDAT program.

The second task was the building of a computer program which would take selected fire weather and/or fire danger variables from the FIRDAT runs and produce a Zone weighted average. This was accomplished with the current selection of variables as follows:

- Average Precipitation
- Average Lightning Activity Level
- One hour timelag fuel moisture
- Ten hour timelag fuel moisture
- Hundred hour timelag fuel moisture
- Thousand hour timelag fuel moisture
- Live woody fuel moisture
- Live herbaceous fuel moisture
- Industrial Fire Precautions Level
- Maximum Precipitation
- Maximum LAL
- Temperature
- Relative Humidity
- 20 foot wind speed
- Ignition Component
- Spread Component
- Energy Release Component
- Burning Index

The final task was the development of a computer program to provide frequency and conditional probabilities of a selected fire weather or fire danger variable from the list above. Following is an example of the output of this program. It is built for the 10 day time period June 1-10 and contains weather for a 10 year period. The top of the table contains the number of times the ERC was in the Low, Medium or High ERC category today AND in the Low, Medium, or High ERC category 3 days from today. For example, there were 5 days that the ERC was Low today AND a medium 3 days from today. The bottom of the table hence gives the probability of this event, .057 = 5/88. Note that in the upper right part of the top of the table, the average and maximum values measured 3 days out are also displayed.

FREQ/PROB Table - ERC - 3 Day

```

*****
*           * HISTORICALLY OBSERVED - Period 6/01 - 6/10 *
*   TODAY'S *   Low   Med   High *
*   ERC     *   0- 10  11- 20  21- 30  TOTAL  AVG.  MAX. *
*****----- FREQUENCY-----*****
* Low   0- 10 *   83     5     0     88     3    10 *
* Med  11- 20 *    9     3     0     12     13   19 *
* High 21- 30 *    0     0     0      0     0    0 *
* TOTAL *   92     8     0    100 *
*****----- PROBABILITY-----*****
* Low   0- 10 *   .943   .057   .000 *
* Med  11- 20 *   .750   .250   .000 *
* High 21- 30 *   .000   .000   .000 *
*****

```



# APPENDIX E

Development of the Initial  
Preparedness Level and  
the Comparison to  
1988 and 1989





Development of the Initial Preparedness Level  
and Comparison to 1988 and 1989

DETERMINATION OF PREPAREDNESS LEVELS

A Preparedness Level (PL) for the Northwest Area (Oregon & Washington) will be determined by the Northwest Coordination Center (NWC) Manager and transmitted to all agencies covered by this plan. This Preparedness Level is computed for the current day as well as the three future time periods defined. As recommended initially by the parent group, the IPL is a relative number ranging from 0 to 5. As primary input to this decision, an Initial Preparedness Level (IPL) will be determined using the objective determination of the following three separate items described below.

- 1) A measure of Risk determined by combining prescribed fire and wildfire activity. This measure is used to measure a real and potential need for suppression resources.
- 2) A measure for availability of Type II crews is used as an indicator of overall fire suppression resource availability. For every Type II crew available, it is expected that 7 overhead are needed based on historical trends.
- 3) A measure of fire season severity as indicated using the historical energy release component (ERC) to determine the dryness of larger fuels and a measure of fire intensity. A Severity Projection Index (SPI) Table provides probabilities the ERC will be at various levels in the future given its level today. This will also yield indications of the progression of drought or wet conditions based on historical conditions by time period.

The determination of the final preparedness level is a management decision made by the Northwest Coordination Center (NWC) Manager or designated acting and needs to consider the following:

- 4) This decision must consider the following subjective criteria as a minimum:
  - a) The 3, 10, and 30 day weather forecasts and projections.
  - b) Additional risk of wildfire occurrence or existing wildfire activity not measured by the Initial Preparedness Level. This could include wildfire activity both Nationally and Regionally.
  - c) Social/political considerations.

The process inputs and the decision may be documented on forms described in Appendix A of this report.

HOW THE INITIAL PREPAREDNESS LEVEL WAS DEVELOPED

All agencies will submit an accurate daily situation report that includes the number of prescribed fires currently active. All agencies will also submit via the situation report the number of Type II crews available.

### Expected Risk for Prescribed Fire

Initially, only the number of prescribed fires was to be considered in the IPL decision. For each outlook period (3, 10, & 30 days), the expected number of prescribed fires would be determined by the Coordination Center. This can be done using the situation report and/or graphs of historical relationships (Appendix B).

In general, this measure will be considered Low, Medium or High if the following criteria are met.

LOW - Number of Rx fires is 39 or less

MEDIUM - Number of Rx fires is between 40 and 79

HIGH - Number of Rx fires is 81 or more

### Availability of Type II Crews

For each outlook period (3, 10, & 30 days), the expected number of Type II crews available will be estimated. Using the situation report and the worksheet in appendix A, the number of crews available was modified to reflect seasonal fluctuations, weekend and holiday unavailability, attrition, out-of-Region needs, and possible increases due to importing of crews to the region.

To determine Type II crew availability, use the following categories:

LOW - 15 or less Type II crews available

MEDIUM - Between 16 and 30 Type II crews available

HIGH - 31 or more Type II crews available

### Expected Severity Projection Index (SPI)

Utilize AFFIRMS to determine today's average energy release component (ERC) value for each preparedness zone, A-G, in the region. The Severity Projection Index Table provides an estimate of the probability the ERC will be Low, Medium, or High 3 days, 10 days, and 30 days from today. It does this for 10 day time periods through the season for each preparedness zone using historical trends, not future weather forecasts. The effect of future weather forecasts will be considered later in the decision process. Refer to the Severity Projection Index Table (see Appendix D) for each preparedness zone to determine the appropriate projected ERC category of Low, Medium, or High for each preparedness zone. To determine a weighted regional category assign a value of 1 to Low, 2 to Medium, or 3 to High. Add the numeric values obtained for all seven preparedness zones. For a relative measure of the expected SPI, use the following categories:

LOW - The sum is 10 for less

MEDIUM - The sum is 11 to 15

HIGH - The sum is 16 for greater

### MATRIX FOR DETERMINING INITIAL PREPAREDNESS LEVEL

The following matrix was initially developed by the parent group to determine the Initial Preparedness Level (IPL). To use this matrix, determine the expected number of prescribed fires, the expected number of Type II crews available, and the expected Severity Projection Index to get the IPL.

FIRST DRAFT MATRIX FOR DETERMINATION OF THE INITIAL PREPAREDNESS LEVEL

| Rx FIRE ACTIVITY          | LOW                  |     |      | MEDIUM               |     |      | HIGH                 |     |      |
|---------------------------|----------------------|-----|------|----------------------|-----|------|----------------------|-----|------|
| TYPE II CREW AVAILABILITY | SEVERITY PROJ. INDEX |     |      | SEVERITY PROJ. INDEX |     |      | SEVERITY PROJ. INDEX |     |      |
|                           | LOW                  | MED | HIGH | LOW                  | MED | HIGH | LOW                  | MED | HIGH |
| LOW                       | 1                    | 2   | 3    | 2                    | 3   | 4    | 3                    | 4   | 5    |
| MEDIUM                    | 1                    | 1   | 1    | 1                    | 2   | 3    | 2                    | 3   | 4    |
| HIGH                      | 1                    | 1   | 1    | 1                    | 1   | 2    | 1                    | 2   | 3    |

With this table as a indication of intent, some modifications and testing was done. The first modification was to recognize the intent to create a general increase in IPL from the lower left of a box to the upper right. A table was created which reflected this intent. A lower limit for the IPL was established at 1.0 which caused an general increase at each level of 1.0. In addition, it was felt that a combination of all three measures of HIGH should yield a HIGH IPL so the measure of Type II crew availability was changed to a measure of CONCERN for Type II crew availability.

SECOND DRAFT MATRIX FOR DETERMINATION OF THE INITIAL PREPAREDNESS LEVEL

| Rx FIRE ACTIVITY                      | LOW                  |             |   | MEDIUM               |             |   | HIGH                 |             |   |
|---------------------------------------|----------------------|-------------|---|----------------------|-------------|---|----------------------|-------------|---|
| CONCERN FOR TYPE II CREW AVAILABILITY | SEVERITY PROJ. INDEX |             |   | SEVERITY PROJ. INDEX |             |   | SEVERITY PROJ. INDEX |             |   |
|                                       | LOW                  | -----> HIGH |   | LOW                  | -----> HIGH |   | LOW                  | -----> HIGH |   |
| HIGH                                  |                      |             | 4 |                      |             | 5 |                      |             | 6 |
| :                                     |                      |             | 3 |                      |             | 4 |                      |             | 5 |
| :                                     |                      |             | 2 |                      |             | 3 |                      |             | 4 |
| :                                     | 1.5                  |             |   | 2                    |             |   | 3                    |             |   |
| :                                     |                      |             |   |                      |             |   | 2                    |             |   |
| LOW                                   | 1.0                  |             |   | 1.3                  |             |   | 1.7                  |             |   |

An attempt has been made to scale the IPL by tenths to allow managers the opportunity to know how close a given IPL is to the next lower or higher IPL.

The first table also allowed no change in IPL with a change in prescribed fire activity within a Low, Medium, or High category. It was recommended by the parent group that a Low level of prescribed fire activity was 0-39 burns/day, a Medium level was 40-79 burns/day, and a High level was 80-120 burns/day. To

reflect an increase in IPL as the prescribed fire activity increased from one category to another, an adjustment has been made and is documented in the tables below.

In an attempt to see how the IPL proposed would perform, it was computed for the 1988 and 1989 fire seasons, June 6 - September 21. The results are at the end of this appendix.

A survey of the IPL with only prescribed fire as a measure of risk indicated the index deficient in times of high wildfire activity. Experimentation with several additional measures of RISK resulted in the following recommendation.

$$\text{RISK} = (\text{Number of Prescribed Fires}) + (\text{Number of Wildfires}) + (\text{A Calibration Factor})$$

The calibration factor was been determined experimently using daily data from 1988 and 1989. It is meant to reflect additional risk from uncontrolled wildfires and is equal to one-hundredth (.01) times the sum of the acres burned for the two previous days. The last column on the following calculations for 1988 and 1989 given the ALL RISK IPL.

A survey of this ALL RISK IPL yields the following summary.

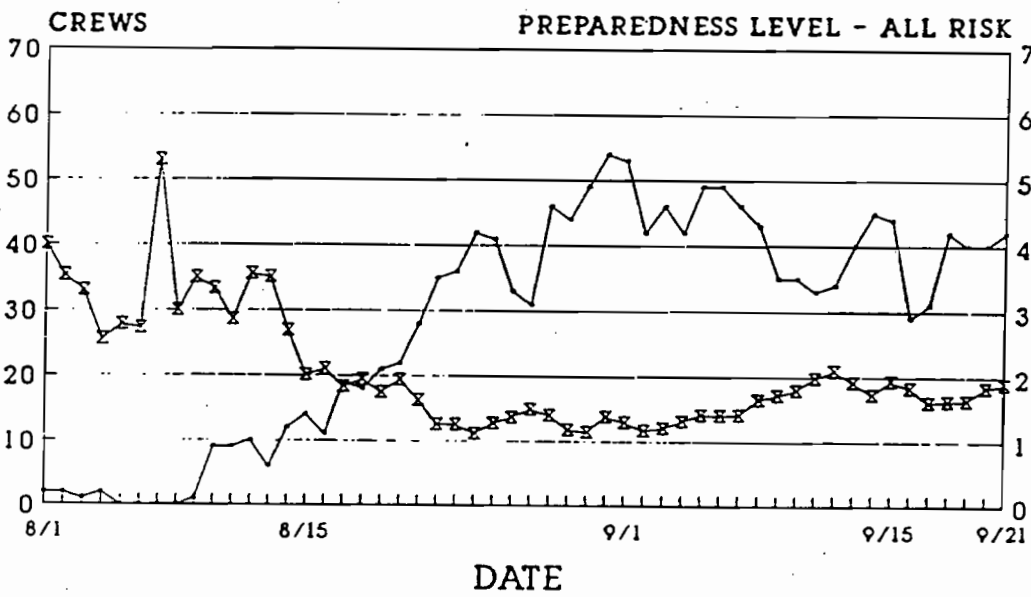
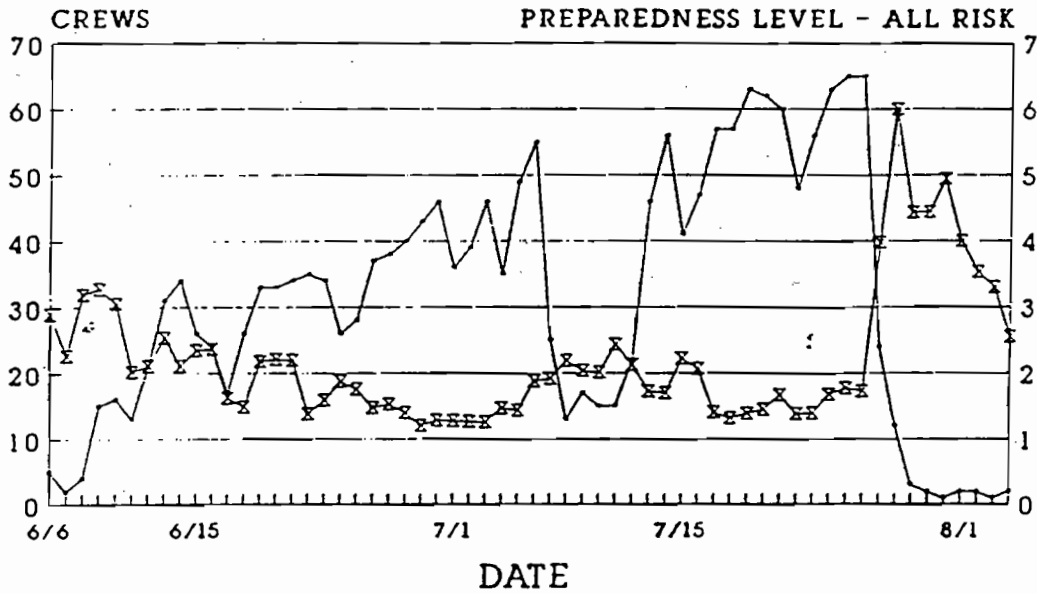
|      | 1988 INITIAL PREPAREDNESS LEVEL |     |     |     |    | 1989 INITIAL PREPAREDNESS LEVEL |     |    |    |    | 88-89 AVERAGE INITIAL PREPAREDNESS LEVEL |     |     |     |    |
|------|---------------------------------|-----|-----|-----|----|---------------------------------|-----|----|----|----|--|-----|-----|-----|----|
|      | 1                               | 2   | 3   | 4   | 5+ | 1                               | 2   | 3  | 4  | 5+ | 1  | 2   | 3   | 4   | 5+ |
|      | <-- Days per Month -->          |     |     |     |    | <-- Days per Month -->          |     |    |    |    | <-- Days per Month -->                   |     |     |     |    |
| JUNE | 16                              | 6   | 2   | 1   | 0  | 11                              | 11  | 3  | 0  | 0  | 14                                       | 9   | 3   | 1   | 0  |
| JULY | 15                              | 9   | 1   | 5   | 1  | 19                              | 7   | 0  | 4  | 1  | 17                                       | 8   | 1   | 5   | 1  |
| AUG  | 0                               | 13  | 8   | 3   | 7  | 15                              | 7   | 7  | 1  | 1  | 8  | 10  | 8   | 2   | 4  |
| SEPT | 3                               | 1   | 6   | 9   | 2  | 19                              | 2   | 0  | 0  | 0  | 11                                       | 2   | 3   | 5   | 1  |
| SUM  | 34                              | 29  | 17  | 18  | 10 | 64                              | 27  | 10 | 5  | 2  | 50                                       | 29  | 15  | 13  | 6  |
|      | 31%                             | 27% | 16% | 17% | 9% | 59%                             | 25% | 9% | 5% | 2% | 45%                                      | 26% | 13% | 11% | 5% |

Cummulative Percent = 45% 71% 84% 95% 100%

For the two year period, the cummulative percentiles look reasonable. In June, the days when the IPL was 3, 4 or 5 were a result of high prescribed fire activity but this activity lasted only 2-3 days in a row. All the days in July -September when the IPL was 3, 4, or 5 were a result of high wildfire activity within or outside the Region.

Following are graphs comparing crew availability, the severity projection index, prescribed fire use, wildfire occurrence, wildfire acres burned, and the all risk index with IPL. There is also a comparison of the IPL computed only with the number of prescribed fires and with all risk.

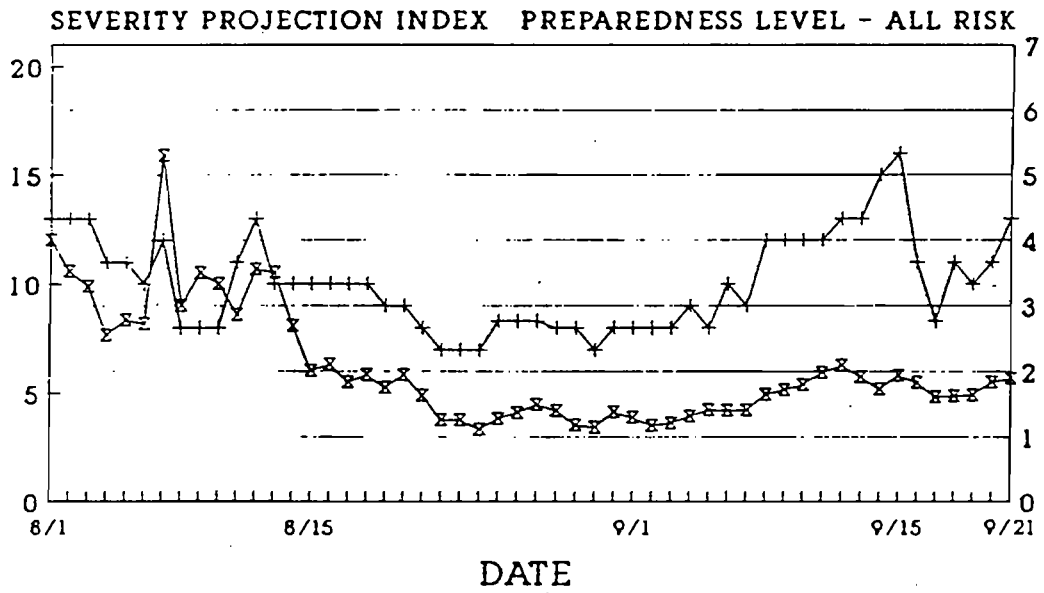
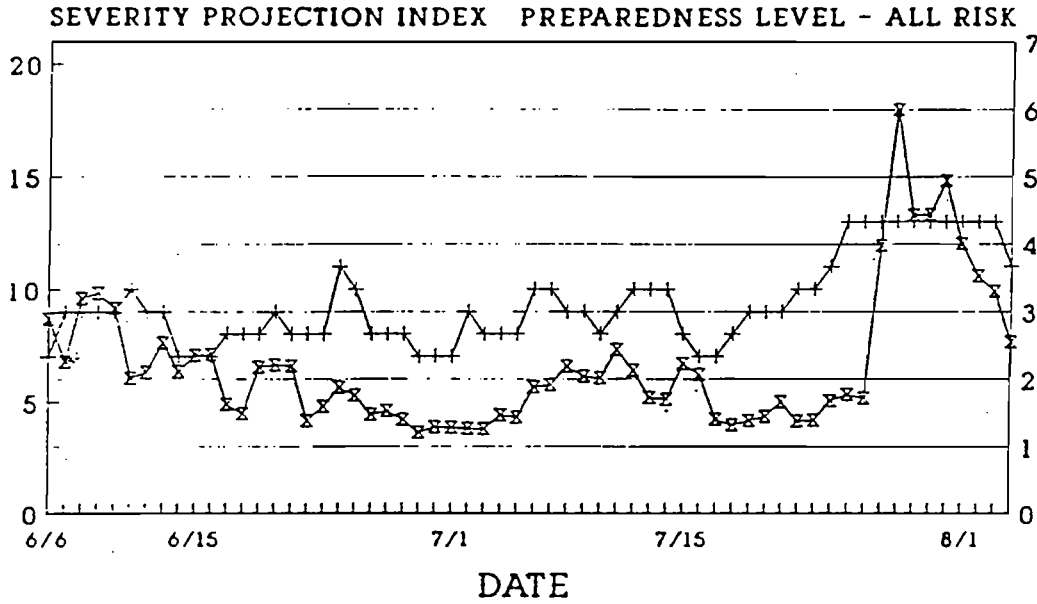
# CREWS vs ALL RISK PREPAREDNESS LEVEL USING 1989 DAILY DATA



— CREWS    —x— PRED LEVEL-ALL RISK

• CREWS 00000

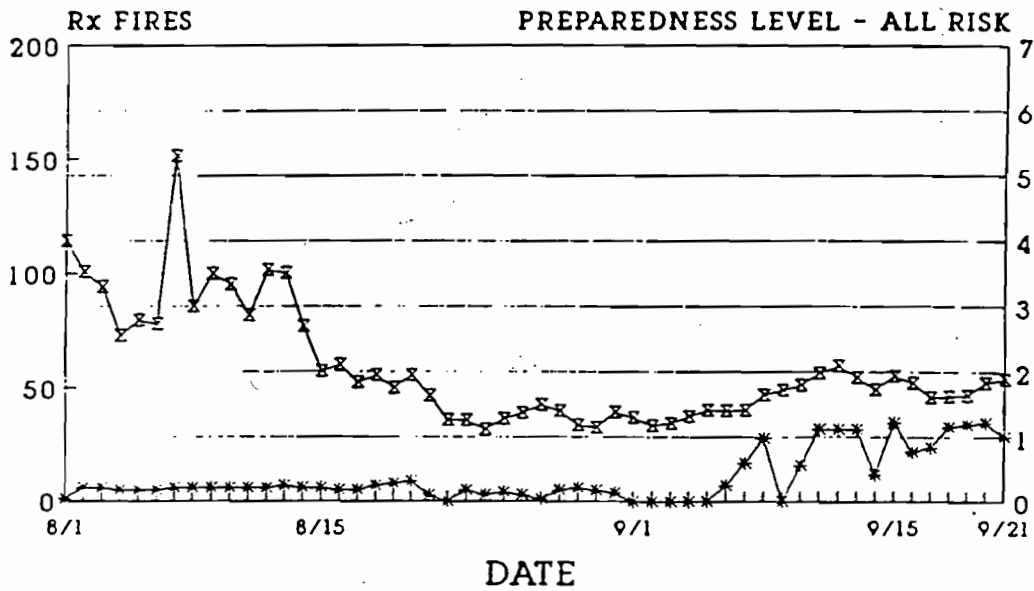
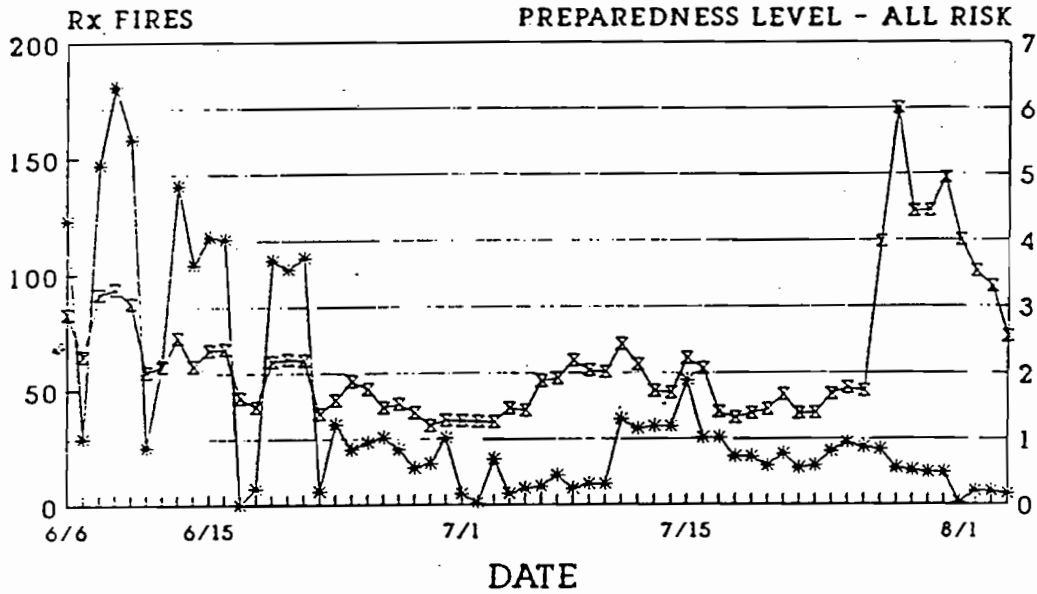
# SPI vs ALL RISK PREPAREDNESS LEVEL USING 1989 DAILY DATA



+ SPI    x PREP LEVEL-ALL RISK

© CARMON 8/8/89

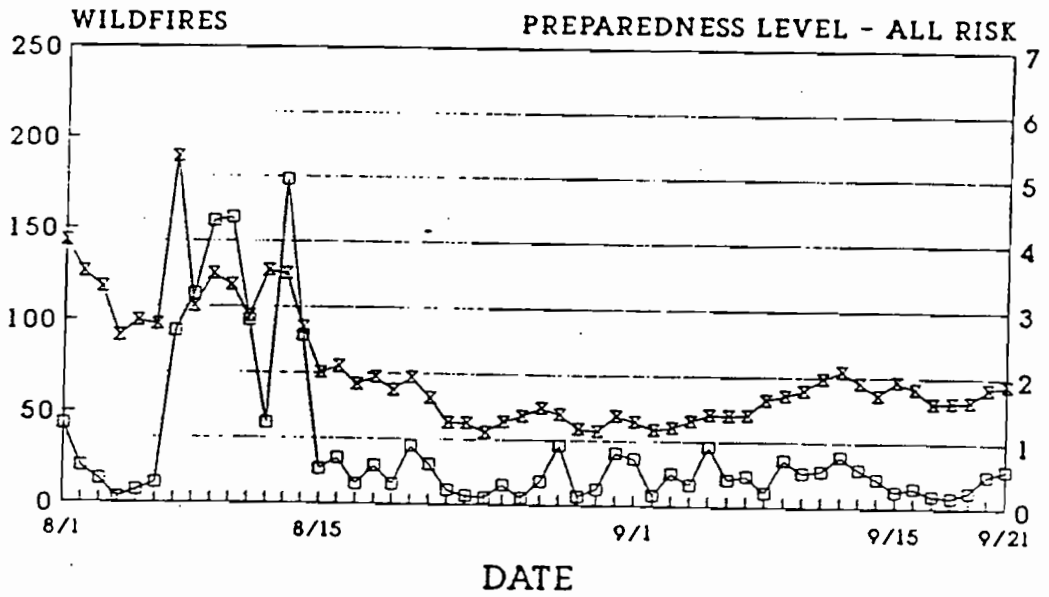
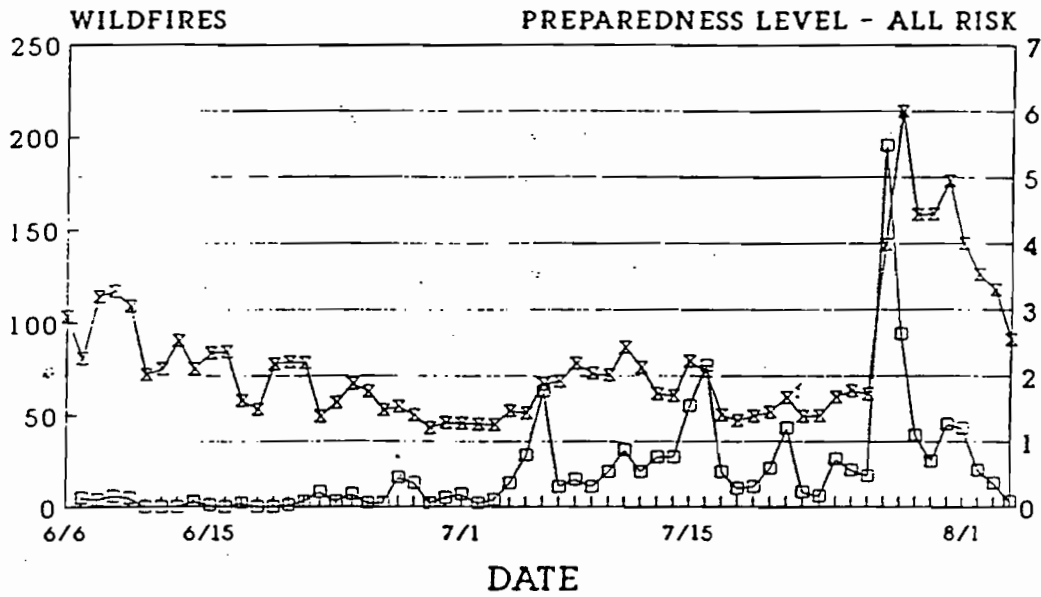
# Rx FIRE vs ALL RISK PREP. LEVEL USING 1989 DAILY DATA



\* Rx FIRES      □ PREP LEVEL-ALL RISK

• CARLOS 8/8/89

# WILDFIRES vs ALL RISK PREP. LEVEL USING 1989 DAILY DATA

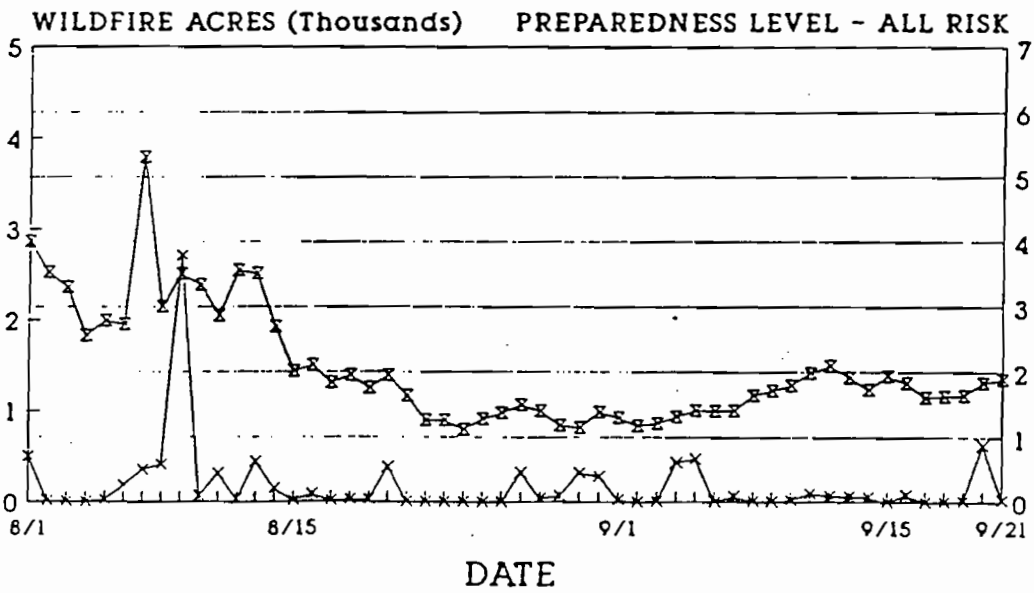
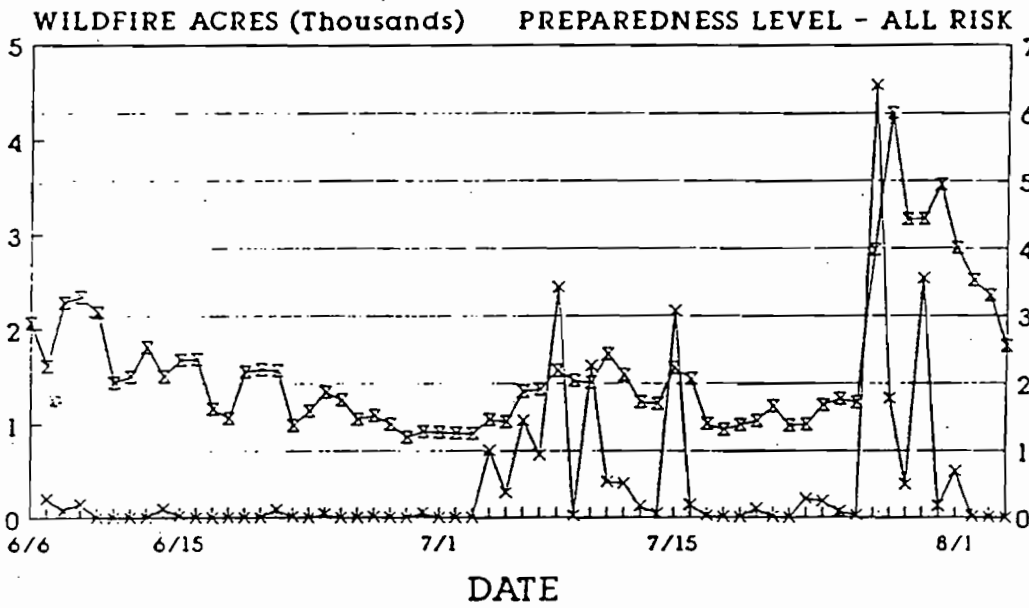


WILDFIRES   
  PRED LEVEL-ALL RISK

• CARSON 11/11/89



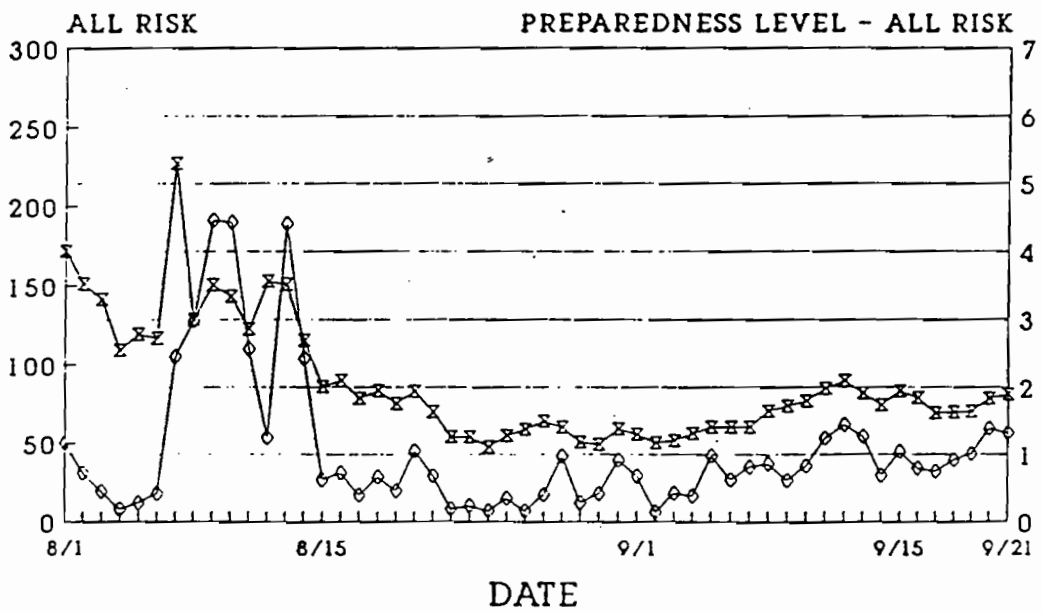
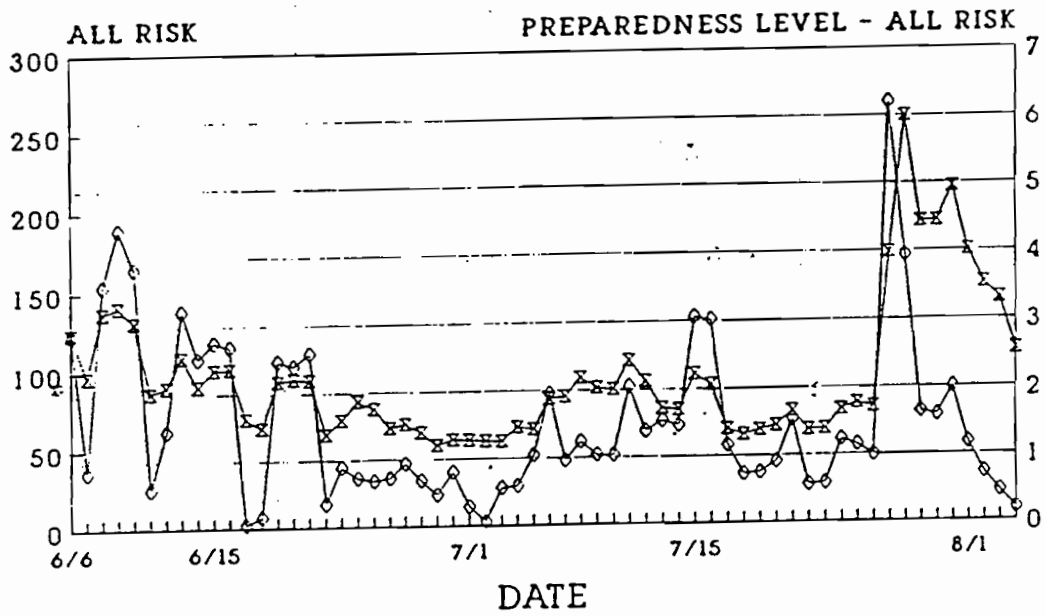
# WILDFIRE ACRES vs ALL RISK PREP. LEVEL USING 1989 DAILY DATA



—x— WILDFIRE ACRES    —□— PRED LEVEL-ALL RISK

• CASUALTY 8/8/89

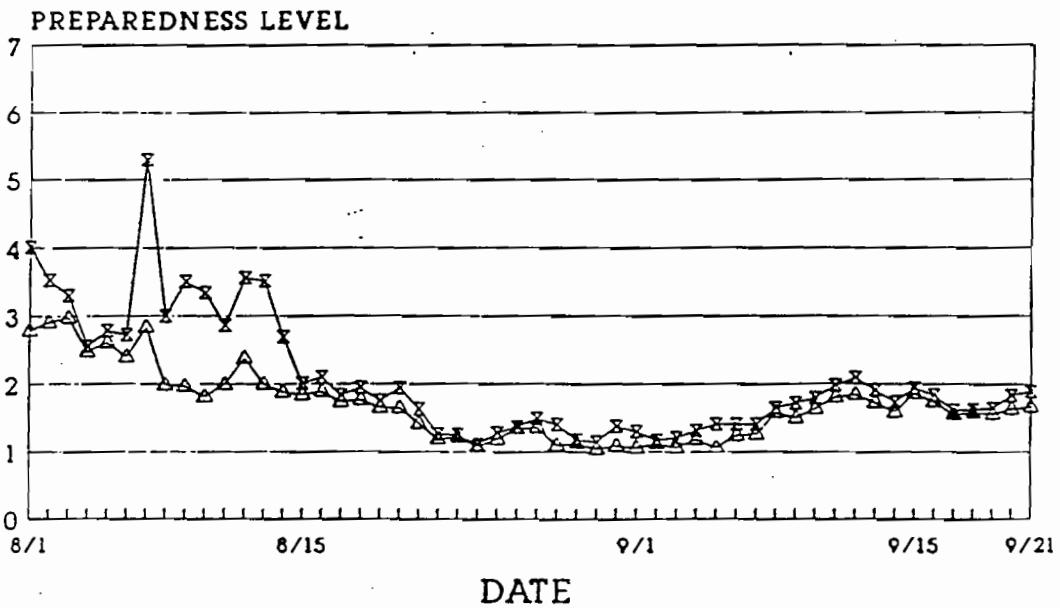
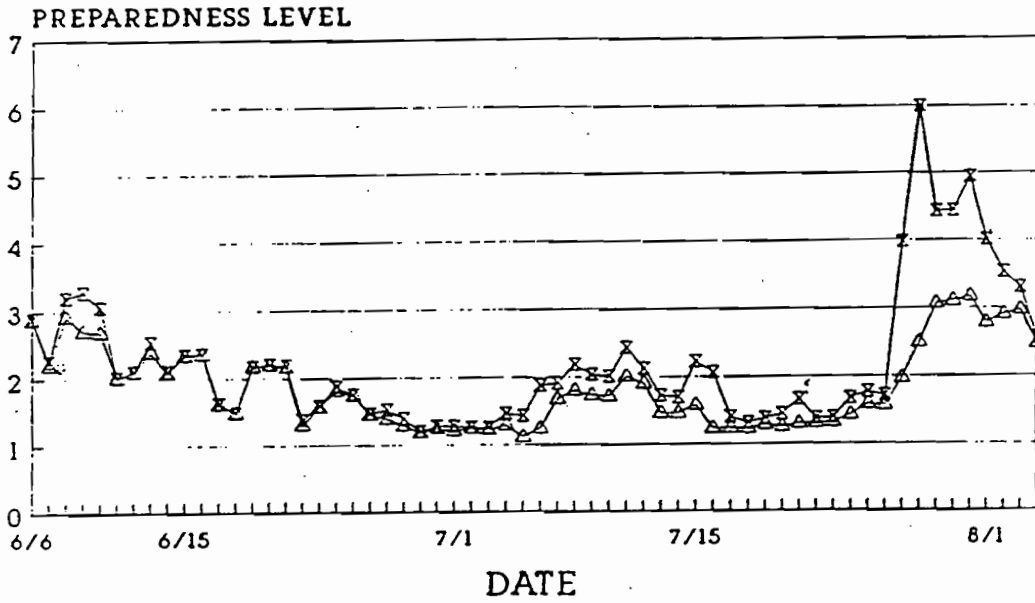
# ALL RISK vs ALL RISK PREPAREDNESS LEVEL USING 1989 DAILY DATA



—◇— ALL RISK
—■— PRED LEVEL-ALL RISK

0-00000 00000

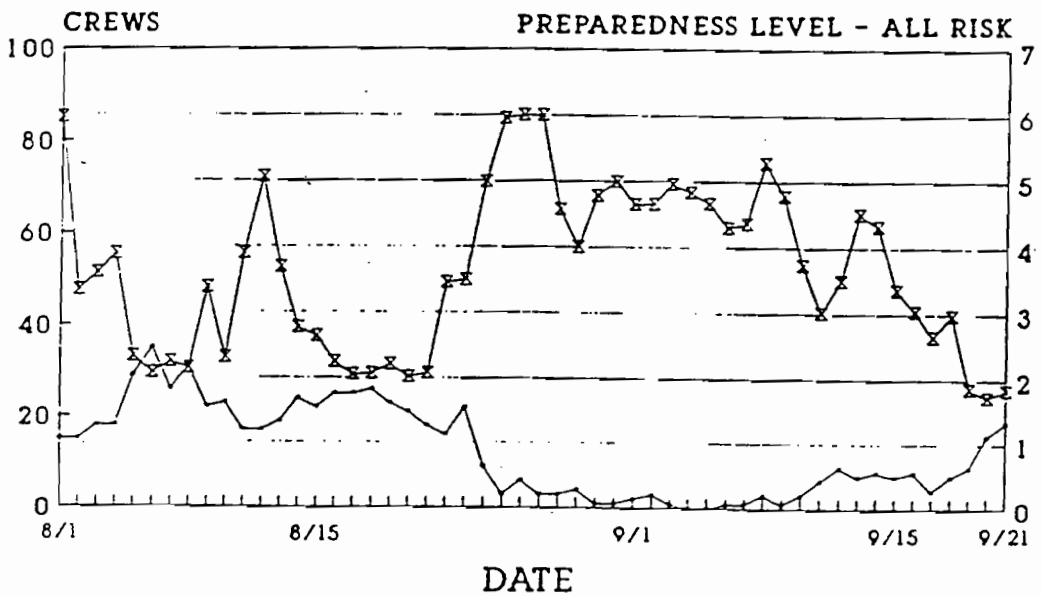
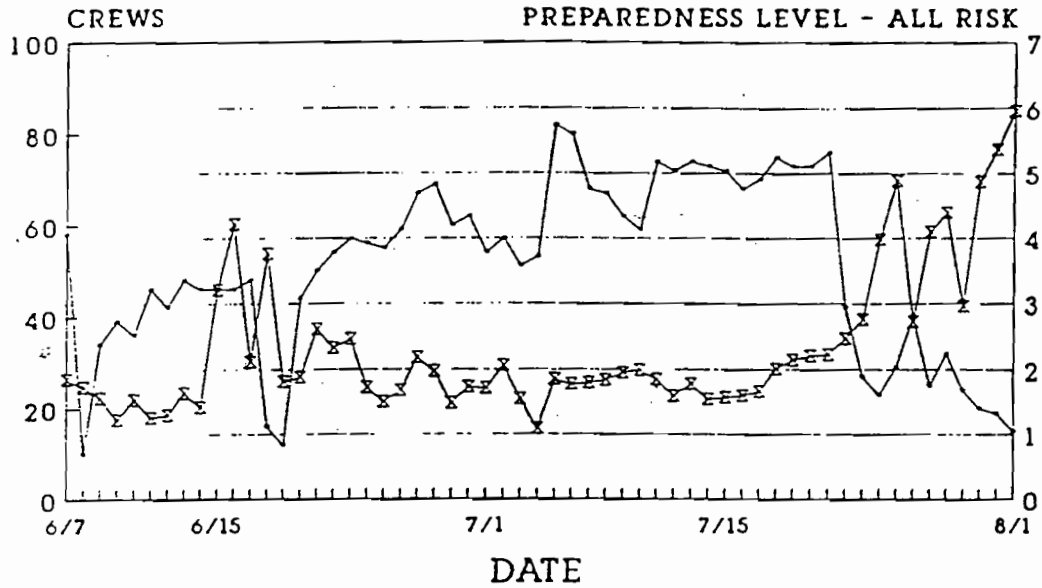
# Rx FIRE vs ALL RISK PREPAREDNESS LEVEL USING 1989 DAILY DATA



—△— PRED LEVEL-Rx ONLY      —■— PRED LEVEL-ALL RISK

U.S. GPO: 1989-0-250-000

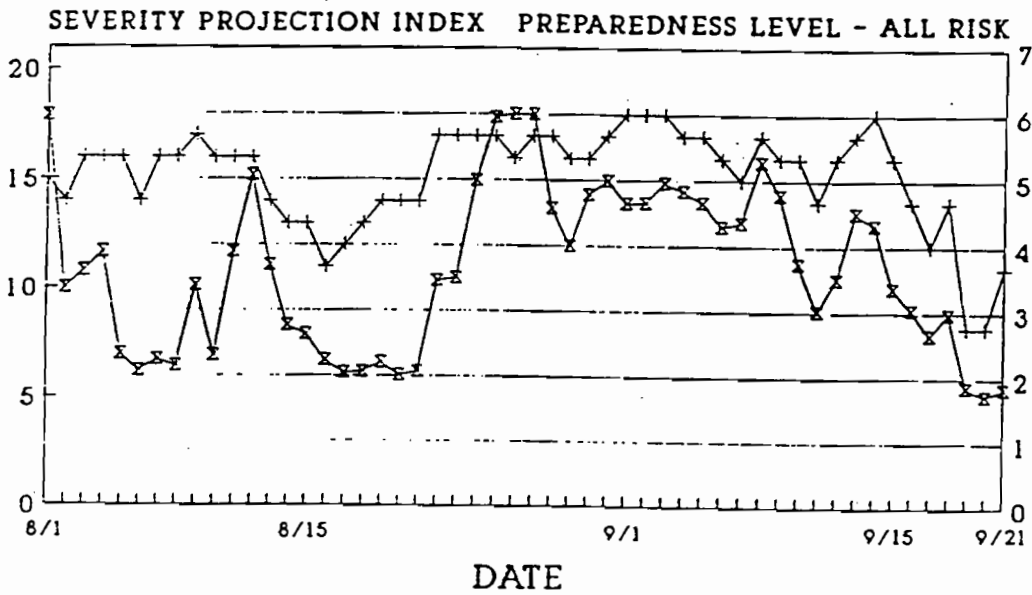
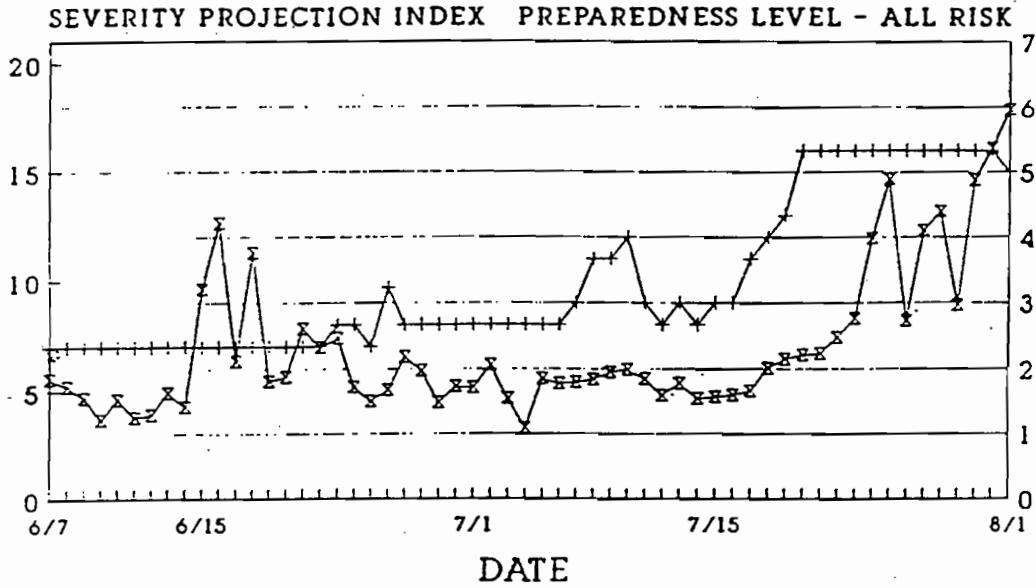
# CREWS vs ALL RISK PREPAREDNESS LEVEL USING 1988 DAILY DATA



— CREWS      -x- PREP LEVEL-ALL RISK

© CARLOS 8/8/88

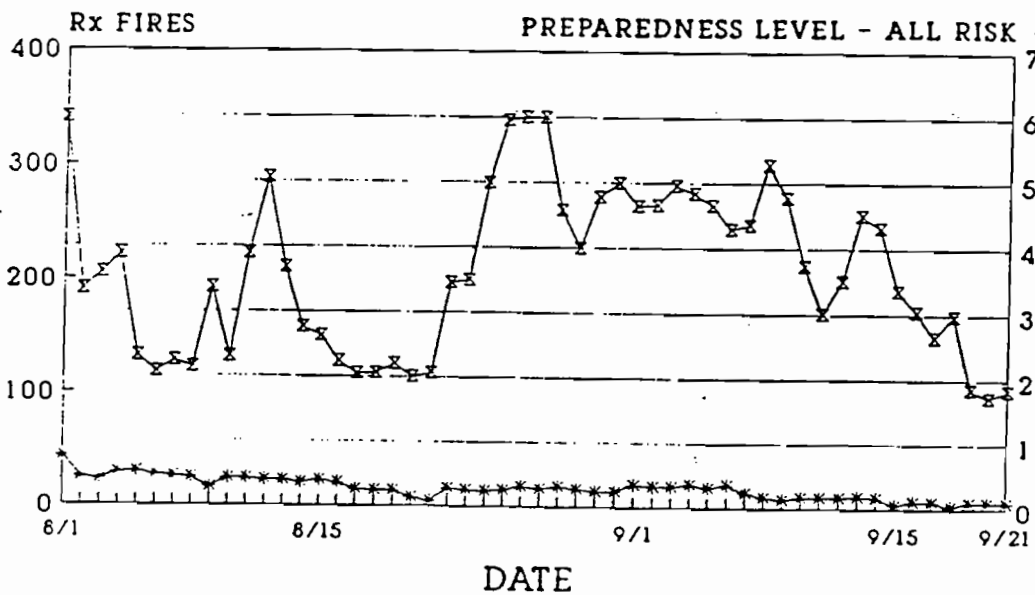
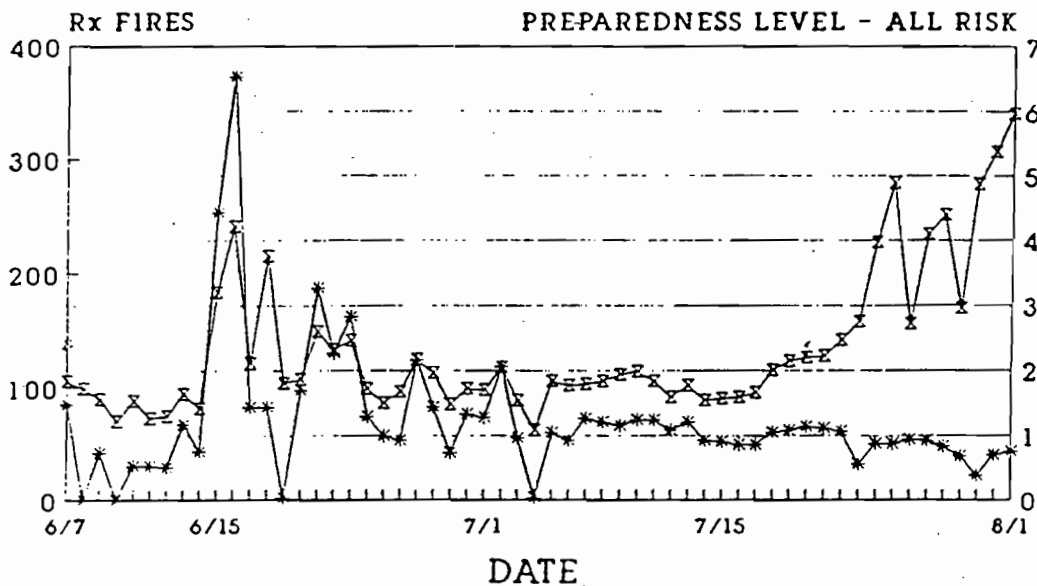
# SPI vs ALL RISK PREPAREDNESS LEVEL USING 1988 DAILY DATA



—+— SPI    —■— PREP LEVEL-ALL RISK

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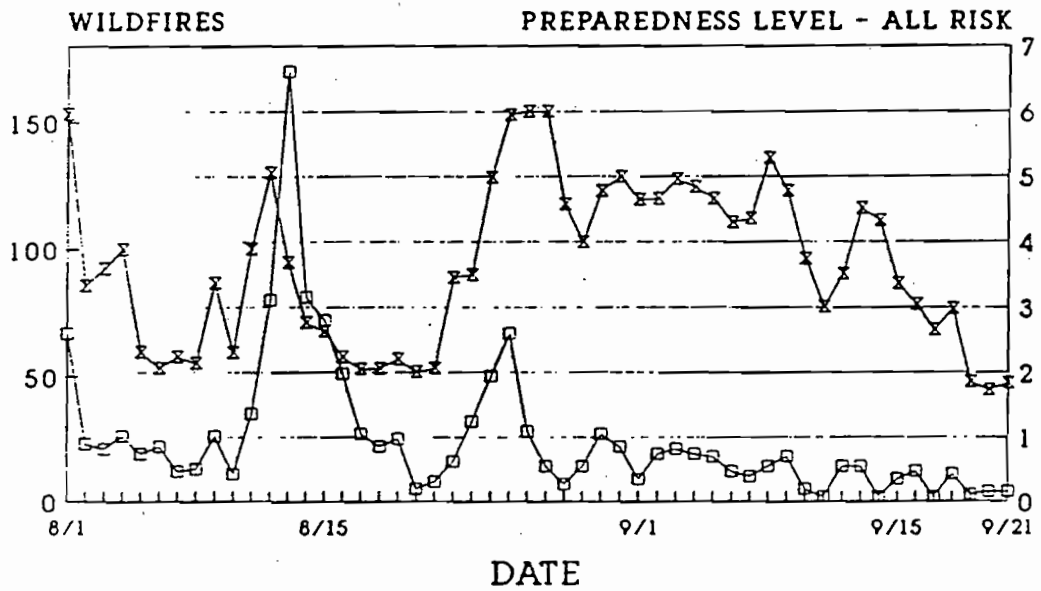
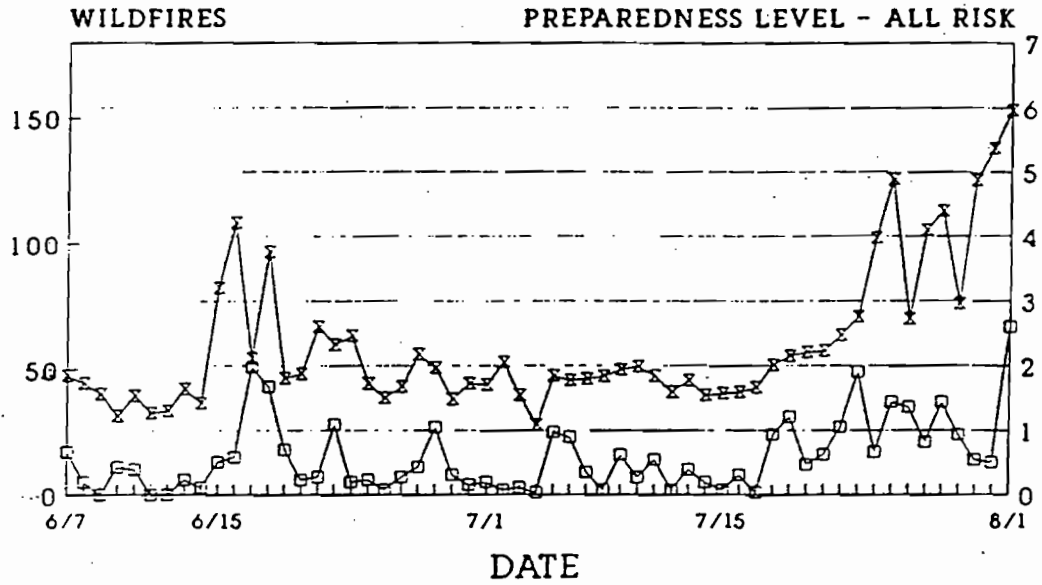
# Rx FIRE vs ALL RISK PREP. LEVEL USING 1988 DAILY DATA



\* Rx FIRES    □ PREP LEVEL-ALL RISK

© CASUALTY ...

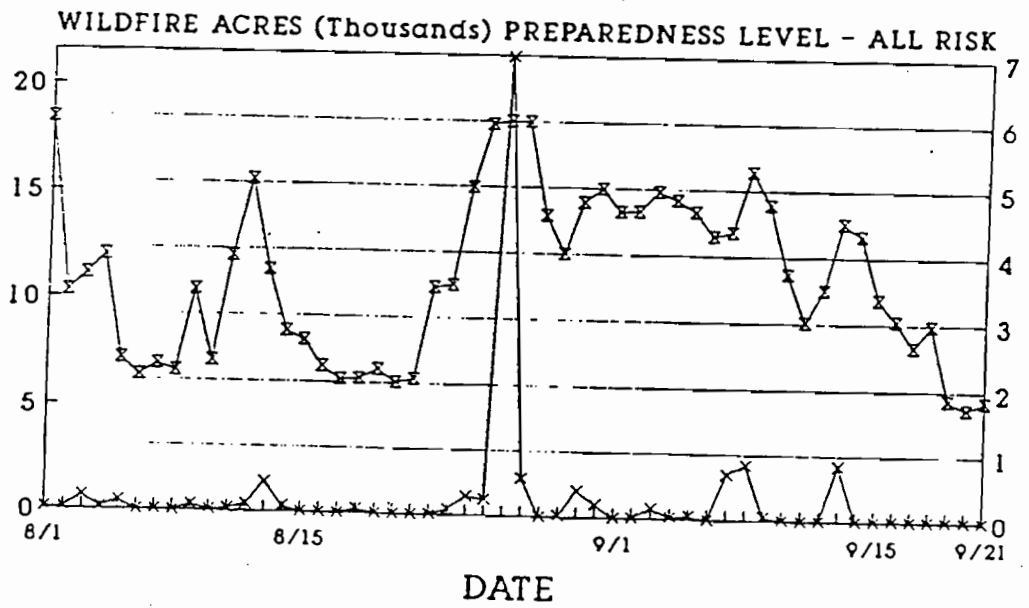
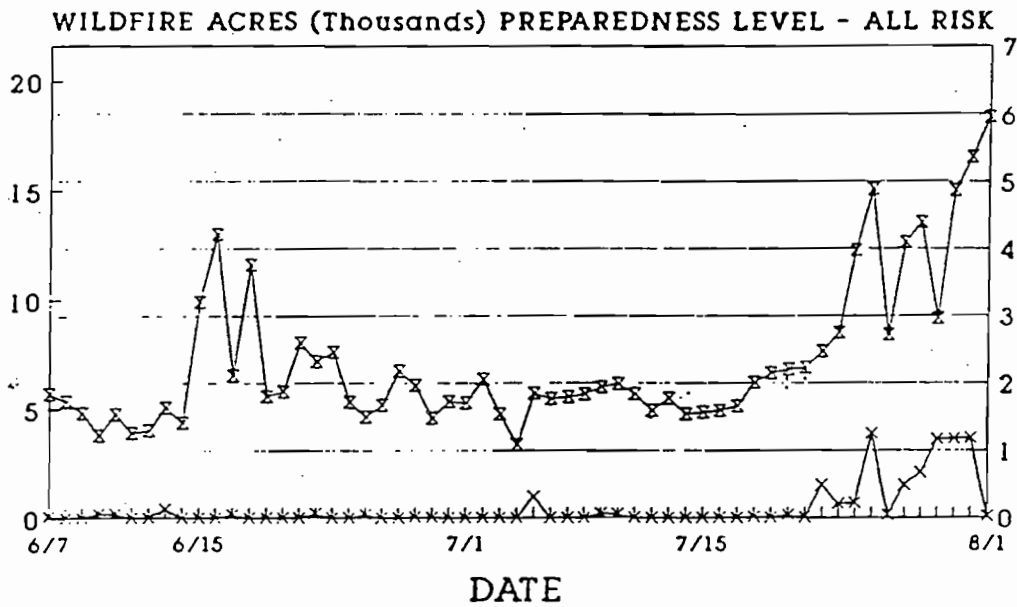
# WILDFIRES vs ALL RISK PREP. LEVEL USING 1988 DAILY DATA



WILDFIRES    
  PREP LEVEL-ALL RISK

.....

# WILDFIRE ACRES vs ALL RISK PREP. LEVEL USING 1988 DAILY DATA

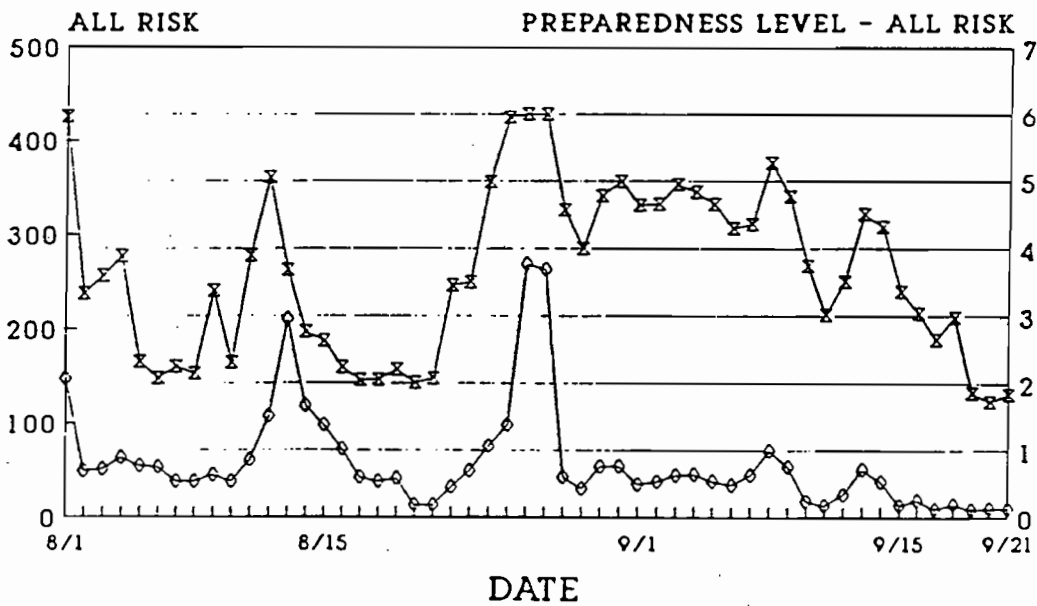
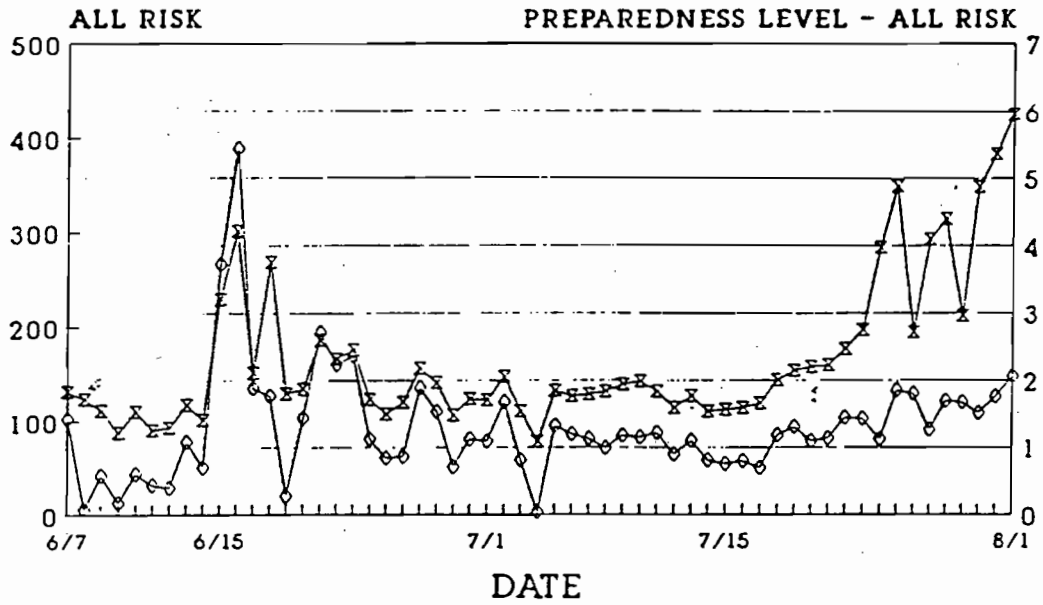


—x— WILDFIRE ACRES
—H— PREP LEVEL-ALL RISK

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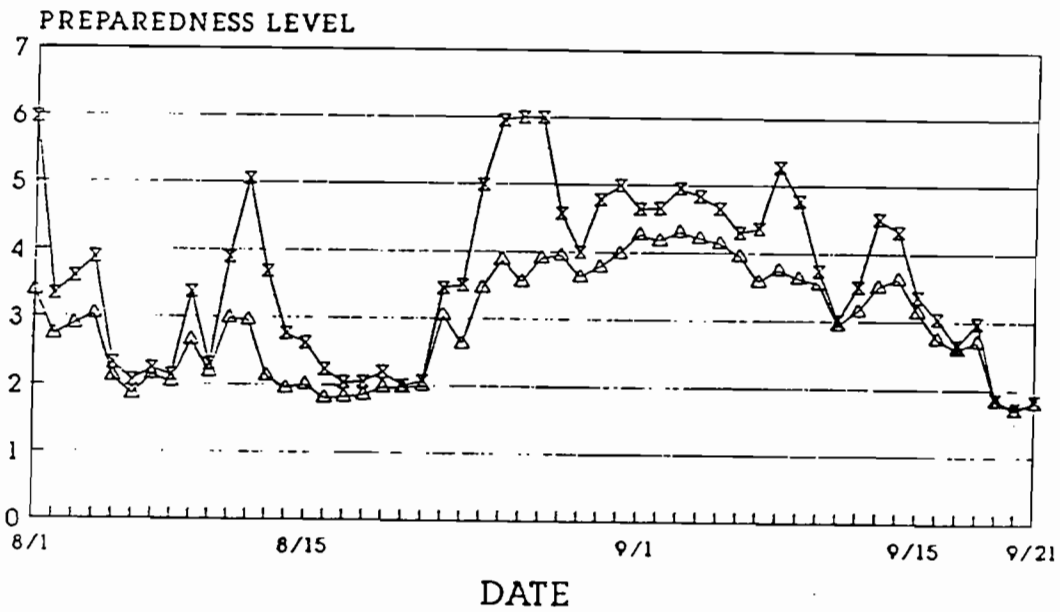
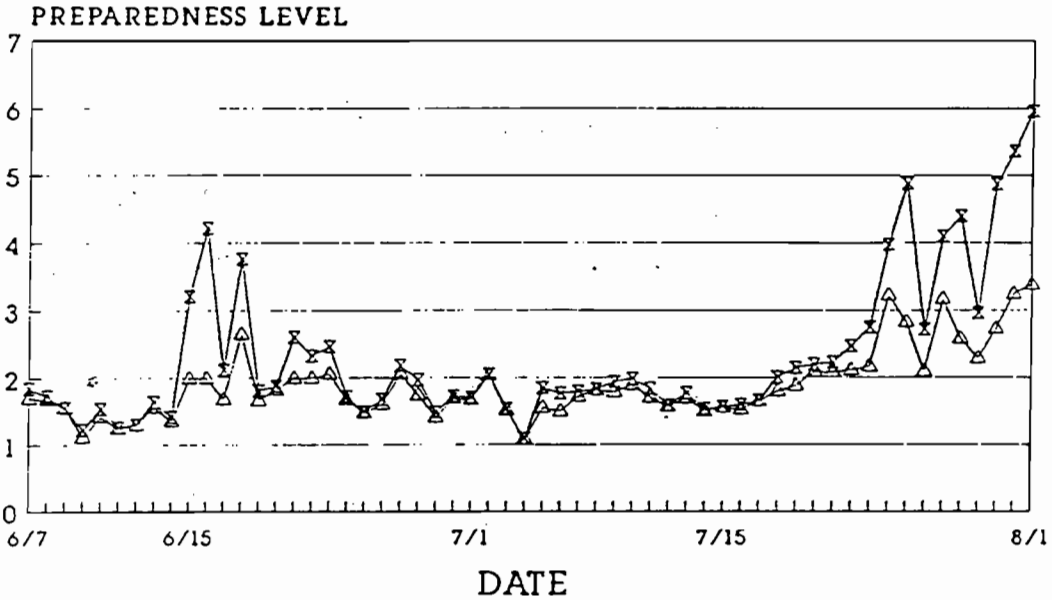
# ALL RISK vs ALL RISK PREPAREDNESS LEVEL USING 1988 DAILY DATA



○ ALL RISK
—x— PREP LEVEL-ALL RISK

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# Rx FIRE vs ALL RISK PREPAREDNESS LEVEL USING 1988 DAILY DATA



PREP LEVEL-Rx FIRE      PREP LEVEL-ALL RISK

•••••

The following table displays the ALL RISK IPL.

PROPOSED MATRIX FOR DETERMINATION OF THE INITIAL PREPAREDNESS LEVEL

|                                       | RISK IS LOW                              | RISK IS MEDIUM                           | RISK IS HIGH                             |
|---------------------------------------|--|--|--|
| CONCERN FOR TYPE II CREW AVAILABILITY | SEVERITY PROJ. INDEX<br>LOW <-----> HIGH | SEVERITY PROJ. INDEX<br>LOW <-----> HIGH | SEVERITY PROJ. INDEX<br>LOW <-----> HIGH |
| HIGH                                  | 4  | 5  | 6  |
| :                                     | 3  | 4  | 5  |
| :                                     | 2  | 3  | 4  |
| :                                     | 1.5                                      | 2  | 3  |
| :                                     |  | 2  | 2  |
| LOW                                   | 1.0                                      | 1.3                                      | 1.7                                      |

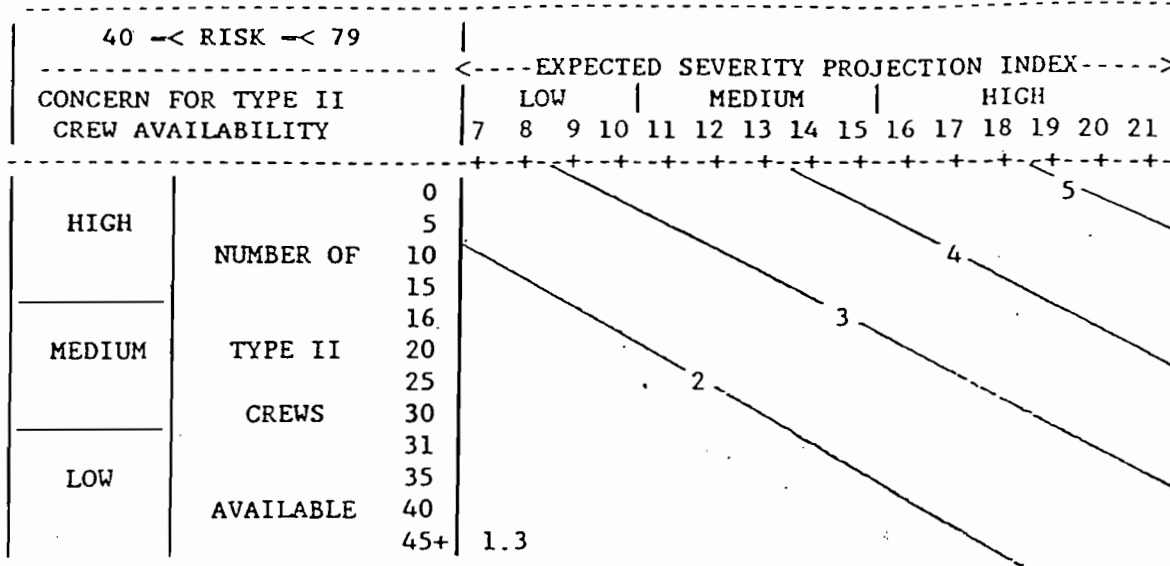
MATRIX FOR DETERMINING INITIAL PREPAREDNESS LEVEL

The following three matrices are used to determine the Initial Preparedness Level (IPL). Determine the expected RISK from prescribed fire and wildfire activity to determine which matrix to use. Determine the IPL by plotting the expected number of Type II crews available (concern of Type II crew availability) and the expected Severity Projection Index.

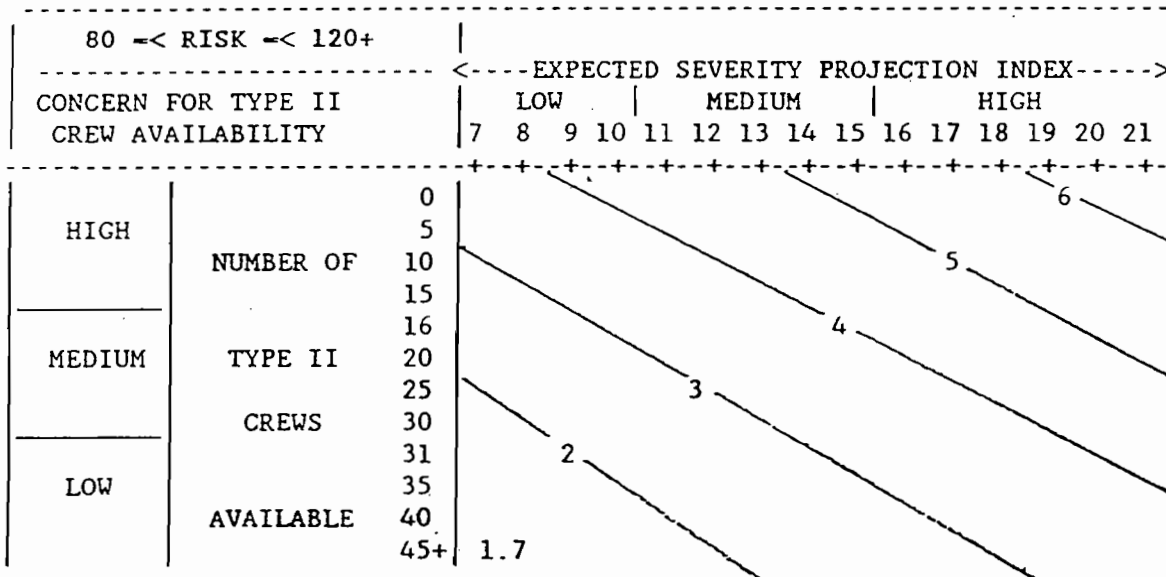
| 0 <- RISK <- 39                       |           | <----- EXPECTED SEVERITY PROJECTION INDEX -----> |   |   |     |    |        |    |    |    |    |      |    |    |    |    |
|---------------------------------------|-----------|--|---|---|-----|----|--------|----|----|----|----|------|----|----|----|----|
| CONCERN FOR TYPE II CREW AVAILABILITY |           | LOW  |   |   |     |    | MEDIUM |    |    |    |    | HIGH |    |    |    |    |
|                                       |           | 7  | 8 | 9 | 10  | 11 | 12     | 13 | 14 | 15 | 16 | 17   | 18 | 19 | 20 | 21 |
| HIGH                                  | NUMBER OF | 0  |   |   |     |    |        |    |    |    |    |      |    |    |    | 4  |
|                                       | 5         |  |   |   |     |    |        |    |    |    |    |      |    |    |    |    |
|                                       | 10        |  |   |   |     |    |        |    |    |    |    |      |    |    | 3  |    |
| MEDIUM                                | TYPE II   | 15   |   |   |     |    |        |    |    |    |    |      |    |    |    |    |
|                                       | 16        |  |   |   |     |    |        |    |    |    |    |      |    |    |    |    |
|                                       | 20        |  |   |   |     |    |        |    |    |    |    |      |    |    | 2  |    |
| LOW                                   | CREWS     | 25   |   |   |     |    |        |    |    |    |    |      |    |    |    |    |
|                                       | 30        |  |   |   |     |    |        |    |    |    |    |      |    |    |    |    |
|                                       | 31        |  |   |   | 1.5 |    |        |    |    |    |    |      |    |    |    |    |
|                                       | AVAILABLE | 35   |   |   |     |    |        |    |    |    |    |      |    |    |    |    |
|                                       | 40        |  |   |   |     |    |        |    |    |    |    |      |    |    |    |    |
|                                       | 45        | 1  |   |   |     |    |        |    |    |    |    |      |    |    |    |    |

IF THE BASE IPL >= 2, THE IPL = (BASE IPL) + (RISK/40)  
 IF THE BASE IPL < 2, THE THE IPL = (BASE IPL) + (RISK/40)\*.3

The (RISK/40) and (RISK/40)\*.3 allow for scaling the IPL as RISK increases from 0 to 39.



IF THE BASE IPL  $\geq$  2, THE IPL = (BASE IPL) + ((RISK-40)/40)  
 IF THE BASE IPL < 2, THE THE IPL = (BASE IPL) + ((RISK-40)/10)\*.4



IF RISK < 121 AND BASE IPL  $\geq$  2, THEN IPL = (BASE IPL) + ((RISK-80)/40)  
 IF RISK < 121 AND BASE IPL < 2, THEN IPL IS (BASE IPL) + ((RISK-80)/40)\*.3  
 IF RISK > 120 AND BASE IPL  $\geq$  2, THEN IPL = (BASE IPL) + 1  
 IF RISK > 120 AND BASE IPL < 2, THEN IPL = (BASE IPL) + .3

The IPL can be determined mathematically. Two steps are required. First is the determination of a critical SPI, CSPI = .313(CREWS AVAILABLE) - .119(RISK) + 9.01. If the SPI  $\geq$  CSPI, the IPL = -.066(CREWS AVAILABLE) + .203(SPI) + .025(RISK) + .2486. If the SPI < CSPI, the IPL = -.0196(CREWS AVAILABLE) + .0617(SPI) + .008(RISK) + 1.45. In both formulas, limit CREWS AVAILABLE to 45 and RISK to 120 if these values are exceeded.

<----SEVERITY CLASS---->  
 LOW MEDIUM HIGH FUEL MODEL  
 <-----><-----><-----><----->  
 0 - 8 - 16 - 17 - C  
 0 - 22 - 44 - 45 - G  
 0 - 5 - 11 - 12 - T

|            |         |         |         |         |         |         |         |      |     |       |     | C     | E     | W     |       |      | Rx    | ALL   |   |
|------------|---------|---------|---------|---------|---------|---------|---------|------|-----|-------|-----|-------|-------|-------|-------|------|-------|-------|---|
|            |         |         |         |         |         |         |         |      |     |       |     | R     | R     | I     |       |      | ONLY  | RISK  |   |
|            |         |         |         |         |         |         |         |      |     |       |     | E     | C     | N     | L     |      |       | P     | P |
|            |         |         |         |         |         |         |         |      |     |       |     | W     | O     | D     |       |      | P     | R     |   |
|            |         |         |         |         |         |         |         |      |     |       |     | S     | V     | F     |       |      | R     | R     |   |
|            |         |         |         |         |         |         |         |      |     |       |     | A     | A     | R     | I     |      |       | E     | E |
|            |         |         |         |         |         |         |         |      |     |       |     | L     | x     | R     | E     | WILD | WF    | D     |   |
|            |         |         |         |         |         |         |         |      |     |       |     | V     | U     | E     | FIRE  | .01  | ACRES | LEVEL |   |
| AREA A     | AREA B  | AREA C  | AREA D  | AREA E  | AREA F  | AREA G  | AREA G  | A.   | E   | FIRES | S   | ACRES | ACRES | LEVEL | LEVEL |      |       |       |   |
| ERC/PTS    | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS |      |     |       |     |       |       |       |       |      |       |       |   |
| 88 6 6 7   | 1 0     | 0 0     | 0 1     | 1 0     | 0 0     | 0 0     | 0 0     | 0 58 | 7   | 85    | 17  | 96    | 103   | 1.7   | 1.9   |      |       |       |   |
| 88 6 7 2   | 1 0     | 0 0     | 0 1     | 1 0     | 0 2     | 1 0     | 0 10    | 7    | 0   | 5     | 5   | 6     | 6     | 1.7   | 1.7   |      |       |       |   |
| 88 6 8 5   | 1 0     | 0 0     | 0 1     | 1 0     | 0 4     | 1 1     | 1 34    | 7    | 42  | 0     | 0   | 42    | 42    | 1.6   | 1.6   |      |       |       |   |
| 88 6 9 8   | 1 1     | 1 0     | 0 0     | 0 1     | 1 1     | 1 0     | 0 39    | 7    | 0   | 11    | 201 | 13    | 13    | 1.1   | 1.2   |      |       |       |   |
| 88 6 10 2  | 1 1     | 1 0     | 0 2     | 1 2     | 1 4     | 1 1     | 1 36    | 7    | 30  | 10    | 184 | 44    | 44    | 1.4   | 1.5   |      |       |       |   |
| 88 6 11 13 | 1 3     | 1 5     | 1 3     | 1 2     | 1 5     | 1 3     | 1 46    | 7    | 30  | 0     | 0   | 32    | 32    | 1.2   | 1.3   |      |       |       |   |
| 88 6 12 15 | 1 2     | 1 5     | 1 4     | 1 4     | 1 8     | 1 3     | 1 42    | 7    | 29  | 0     | 0   | 29    | 29    | 1.3   | 1.3   |      |       |       |   |
| 88 6 13 15 | 1 3     | 1 6     | 1 4     | 1 4     | 1 11    | 1 3     | 1 48    | 7    | 67  | 6     | 429 | 77    | 77    | 1.6   | 1.6   |      |       |       |   |
| 88 6 14 15 | 1 3     | 1 8     | 1 4     | 1 4     | 1 13    | 1 3     | 1 46    | 7    | 43  | 3     | 1   | 50    | 50    | 1.4   | 1.4   |      |       |       |   |
| 88 6 15 14 | 1 4     | 1 8     | 1 4     | 1 4     | 1 13    | 1 3     | 1 46    | 7    | 253 | 13    | 17  | 266   | 266   | 2.0   | 3.2   |      |       |       |   |
| 88 6 16 13 | 1 4     | 1 8     | 1 4     | 1 4     | 1 12    | 1 3     | 1 46    | 7    | 373 | 15    | 3   | 388   | 388   | 2.0   | 4.2   |      |       |       |   |
| 88 6 17 13 | 1 3     | 1 9     | 1 3     | 1 3     | 1 16    | 1 2     | 1 48    | 7    | 82  | 51    | 157 | 135   | 135   | 1.7   | 2.1   |      |       |       |   |
| 88 6 18 14 | 1 4     | 1 10    | 1 3     | 1 2     | 1 15    | 1 3     | 1 16    | 7    | 82  | 43    | 7   | 127   | 127   | 2.7   | 3.8   |      |       |       |   |
| 88 6 19 20 | 1 4     | 1 13    | 1 4     | 1 3     | 1 18    | 1 4     | 1 12    | 7    | 2   | 18    | 8   | 20    | 20    | 1.7   | 1.8   |      |       |       |   |
| 88 6 20 16 | 1 5     | 1 12    | 1 5     | 1 4     | 1 19    | 1 4     | 1 44    | 7    | 97  | 6     | 1   | 103   | 103   | 1.8   | 1.9   |      |       |       |   |
| 88 6 21 16 | 1 5     | 1 19    | 1 5     | 1 4     | 1 20    | 1 3     | 1 50    | 7    | 187 | 7     | 1   | 194   | 194   | 2.0   | 2.6   |      |       |       |   |
| 88 6 22 11 | 1 2     | 1 18    | 1 5     | 1 5     | 1 21    | 1 3     | 1 54    | 7    | 130 | 28    | 214 | 160   | 160   | 2.0   | 2.3   |      |       |       |   |
| 88 6 23 10 | 1 3     | 1 17    | 1 5     | 1 2     | 1 24    | 2 3     | 1 57    | 8    | 162 | 5     | 16  | 169   | 169   | 2.1   | 2.5   |      |       |       |   |
| 88 6 24 18 | 1 6     | 1 21    | 1 7     | 1 7     | 1 26    | 2 4     | 1 56    | 8    | 74  | 6     | 2   | 80    | 80    | 1.7   | 1.7   |      |       |       |   |
| 88 6 25 19 | 1 4     | 1 16    | 1 3     | 1 3     | 1 22    | 1 2     | 1 55    | 7    | 57  | 2     | 152 | 61    | 61    | 1.5   | 1.5   |      |       |       |   |
| 88 6 26 23 | 2 4     | 1 17    | 1 4     | 1 0     | 0 24    | 2 1     | 1 59    | 10   | 53  | 7     | 2   | 62    | 62    | 1.6   | 1.7   |      |       |       |   |
| 88 6 27 15 | 1 5     | 1 19    | 1 6     | 1 1     | 1 24    | 2 2     | 1 67    | 8    | 124 | 11    | 14  | 135   | 135   | 2.1   | 2.2   |      |       |       |   |
| 88 6 28 13 | 1 4     | 1 16    | 1 6     | 1 2     | 1 23    | 2 2     | 1 69    | 8    | 82  | 27    | 39  | 110   | 110   | 1.7   | 2.0   |      |       |       |   |
| 88 6 29 7  | 1 4     | 1 12    | 1 5     | 1 2     | 1 23    | 2 3     | 1 60    | 8    | 42  | 8     | 33  | 51    | 51    | 1.4   | 1.5   |      |       |       |   |
| 88 6 30 14 | 1 4     | 1 19    | 1 8     | 1 5     | 1 27    | 2 4     | 1 62    | 8    | 76  | 4     | 0   | 80    | 80    | 1.7   | 1.7   |      |       |       |   |
| 88 7 1 11  | 1 2     | 1 18    | 1 7     | 1 5     | 1 26    | 2 5     | 1 54    | 8    | 73  | 5     | 2   | 78    | 78    | 1.7   | 1.7   |      |       |       |   |
| 88 7 2 3   | 1 4     | 1 11    | 1 6     | 1 4     | 1 24    | 2 4     | 1 57    | 8    | 118 | 2     | 0   | 120   | 120   | 2.0   | 2.1   |      |       |       |   |
| 88 7 3 8   | 1 5     | 1 10    | 1 5     | 1 3     | 1 24    | 2 3     | 1 51    | 8    | 55  | 3     | 6   | 58    | 58    | 1.5   | 1.5   |      |       |       |   |
| 88 7 4 9   | 1 4     | 1 17    | 1 6     | 1 4     | 1 23    | 2 3     | 1 53    | 8    | 2   | 1     | 0   | 3     | 3     | 1.1   | 1.1   |      |       |       |   |
| 88 7 5 6   | 1 4     | 1 8     | 1 5     | 1 2     | 1 25    | 2 2     | 1 82    | 8    | 60  | 25    | 978 | 95    | 95    | 1.6   | 1.8   |      |       |       |   |
| 88 7 6 4   | 1 3     | 1 15    | 1 7     | 1 4     | 1 29    | 2 4     | 1 80    | 8    | 53  | 23    | 3   | 86    | 86    | 1.5   | 1.6   |      |       |       |   |
| 88 7 7 12  | 1 5     | 1 21    | 1 8     | 1 6     | 1 31    | 2 6     | 2 68    | 9    | 72  | 9     | 7   | 81    | 81    | 1.7   | 1.8   |      |       |       |   |
| 88 7 8 13  | 1 6     | 1 23    | 2 10    | 2 5     | 1 32    | 2 6     | 2 67    | 11   | 69  | 2     | 1   | 71    | 71    | 1.8   | 1.6   |      |       |       |   |
| 88 7 9 14  | 1 7     | 1 26    | 2 10    | 2 8     | 1 34    | 2 8     | 2 62    | 11   | 66  | 16    | 209 | 84    | 84    | 1.8   | 1.9   |      |       |       |   |
| 88 7 10 15 | 1 8     | 1 24    | 2 11    | 2 9     | 2 35    | 2 8     | 2 59    | 12   | 71  | 7     | 204 | 82    | 82    | 1.9   | 2.0   |      |       |       |   |
| 88 7 11 10 | 1 6     | 1 17    | 1 7     | 1 8     | 1 32    | 2 6     | 2 74    | 9    | 71  | 14    | 21  | 87    | 87    | 1.7   | 1.8   |      |       |       |   |
| 88 7 12 4  | 1 3     | 1 10    | 1 8     | 1 8     | 1 33    | 2 5     | 1 72    | 8    | 62  | 2     | 1   | 64    | 64    | 1.6   | 1.6   |      |       |       |   |
| 88 7 13 4  | 1 3     | 1 10    | 1 8     | 1 7     | 1 31    | 2 6     | 2 74    | 9    | 69  | 10    | 2   | 79    | 79    | 1.7   | 1.6   |      |       |       |   |
| 88 7 14 3  | 1 5     | 1 13    | 1 7     | 1 7     | 1 30    | 2 4     | 1 73    | 8    | 53  | 5     | 3   | 58    | 58    | 1.5   | 1.5   |      |       |       |   |
| 88 7 15 7  | 1 6     | 1 15    | 1 8     | 1 6     | 1 31    | 2 6     | 2 72    | 9    | 52  | 2     | 0   | 54    | 54    | 1.6   | 1.6   |      |       |       |   |
| 88 7 16 9  | 1 8     | 1 18    | 1 8     | 1 6     | 1 33    | 2 8     | 2 68    | 9    | 49  | 8     | 3   | 57    | 57    | 1.5   | 1.6   |      |       |       |   |
| 88 7 17 13 | 1 9     | 2 21    | 1 11    | 2 8     | 1 36    | 2 9     | 2 70    | 11   | 49  | 1     | 5   | 50    | 50    | 1.6   | 1.7   |      |       |       |   |
| 88 7 18 16 | 1 8     | 1 23    | 2 13    | 2 9     | 2 39    | 2 11    | 2 75    | 12   | 60  | 24    | 60  | 85    | 85    | 1.8   | 2.0   |      |       |       |   |
| 88 7 19 22 | 1 9     | 2 29    | 2 13    | 2 10    | 2 44    | 2 11    | 2 73    | 13   | 62  | 31    | 36  | 94    | 94    | 1.9   | 2.1   |      |       |       |   |

<-----SEVERITY CLASS----->  
 LOW MEDIUM HIGH FUEL MODEL  
 <-----><-----><-----><----->  
 0 - 8 - 16 - 17 \* C  
 0 - 22 - 44 - 45 \* G  
 0 - 5 - 11 - 12 \* T

|         |         | AREA A  |         | AREA B  |         | AREA C  |         | AREA D  |         | AREA E  |         | AREA F  |         | AREA G  |         | C<br>R<br>E<br>W<br>S<br>A<br>A<br>L<br>V<br>U<br>A<br>E |    | E<br>R<br>C<br>N<br>O.<br>V<br>R<br>x<br>L<br>U<br>P<br>I<br>R<br>E<br>S |       | W<br>I<br>L<br>D<br>F<br>I<br>R<br>E<br>S |       | R <sub>x</sub> *<br>WF .01 |       | ALL<br>RISK<br>P<br>R<br>E<br>D<br>D |  |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|----|--|-------|---|-------|----------------------------|-------|--------------------------------------|--|
| ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS  | A. | E  | PIRES | S   | ACRES | ACRES                      | LEVEL | LEVEL                                |  |
| 88      | 7 20 25 | 2 9     | 2 31    | 2 15    | 2 12    | 2 48    | 3 12    | 3       | 73 16   | 65 12   | 131     | 79      | 2.1     | 2.2     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 7 21 26 | 2 9     | 2 33    | 2 14    | 2 12    | 2 45    | 3 12    | 3       | 76 16   | 64 16   | 29      | 82      | 2.1     | 2.2     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 7 22 24 | 2 9     | 2 31    | 2 13    | 2 11    | 2 47    | 3 14    | 3       | 42 16   | 61 27   | 1506    | 103     | 2.1     | 2.5     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 7 23 26 | 2 9     | 2 32    | 2 13    | 2 9     | 2 49    | 3 15    | 3       | 27 16   | 32 49   | 638     | 102     | 2.2     | 2.8     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 7 24 28 | 2 9     | 2 34    | 2 13    | 2 11    | 2 52    | 3 15    | 3       | 23 16   | 50 17   | 681     | 80      | 3.2     | 4.0     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 7 25 31 | 2 11    | 2 37    | 2 15    | 2 12    | 2 50    | 3 17    | 3       | 29 16   | 50 37   | 3873    | 133     | 2.8     | 4.9     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 7 26 31 | 2 12    | 2 40    | 2 15    | 2 12    | 2 52    | 3 14    | 3       | 40 16   | 54 35   | 128     | 129     | 2.1     | 2.7     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 7 27 32 | 2 11    | 2 39    | 2 14    | 2 12    | 2 52    | 3 12    | 3       | 25 16   | 53 21   | 1507    | 90      | 3.2     | 4.1     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 7 28 30 | 2 11    | 2 38    | 2 14    | 2 12    | 2 53    | 3 15    | 3       | 32 16   | 48 37   | 2071    | 121     | 2.6     | 4.4     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 7 29 31 | 2 10    | 2 37    | 2 15    | 2 12    | 2 53    | 3 14    | 3       | 24 16   | 39 24   | 3604    | 120     | 2.3     | 3.0     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 7 30 30 | 2 11    | 2 36    | 2 15    | 2 12    | 2 52    | 3 15    | 3       | 20 16   | 22 14   | 3616    | 108     | 2.7     | 4.9     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 7 31 28 | 2 12    | 2 33    | 2 13    | 2 14    | 2 52    | 3 12    | 3       | 19 16   | 40 13   | 3649    | 126     | 3.2     | 5.4     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 1 27  | 2 7     | 1 30    | 2 15    | 2 10    | 2 53    | 3 15    | 3       | 15 15   | 43 67   | 69      | 147     | 3.4     | 6.0     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 2 30  | 2 8     | 1 34    | 2 14    | 2 10    | 2 54    | 3 11    | 2       | 15 14   | 25 23   | 73      | 49      | 2.7     | 3.3     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 3 34  | 2 10    | 2 40    | 2 15    | 2 10    | 2 56    | 3 13    | 3       | 18 16   | 23 21   | 673     | 51      | 2.9     | 3.6     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 4 36  | 2 12    | 2 43    | 2 16    | 2 15    | 2 57    | 3 13    | 3       | 18 16   | 29 26   | 143     | 63      | 3.0     | 3.9     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 5 28  | 2 11    | 2 38    | 2 14    | 2 12    | 2 53    | 3 13    | 3       | 29 16   | 30 19   | 431     | 55      | 2.1     | 2.3     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 6 22  | 1 10    | 2 37    | 2 13    | 2 8     | 1 50    | 3 14    | 3       | 35 14   | 27 22   | 3       | 53      | 1.8     | 2.1     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 7 25  | 2 9     | 2 36    | 2 15    | 2 10    | 2 52    | 3 15    | 3       | 26 16   | 26 12   | 26      | 38      | 2.1     | 2.2     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 8 28  | 2 11    | 2 39    | 2 16    | 2 11    | 2 53    | 3 14    | 3       | 31 16   | 25 13   | 5       | 38      | 2.0     | 2.1     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 9 25  | 2 11    | 2 41    | 2 17    | 3 11    | 2 55    | 3 14    | 3       | 22 17   | 16 26   | 286     | 45      | 2.7     | 3.4     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 10 26 | 2 11    | 2 34    | 2 16    | 2 11    | 2 52    | 3 15    | 3       | 23 16   | 24 11   | 62      | 38      | 2.2     | 2.3     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 11 26 | 2 12    | 2 31    | 2 13    | 2 11    | 2 47    | 3 14    | 3       | 17 16   | 24 35   | 127     | 61      | 3.0     | 3.9     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 12 24 | 2 13    | 2 32    | 2 13    | 2 12    | 2 45    | 3 13    | 3       | 17 16   | 23 80   | 352     | 108     | 3.0     | 5.1     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 13 23 | 2 12    | 2 27    | 2 10    | 2 5     | 1 41    | 2 12    | 3       | 19 14   | 23 170  | 1413    | 211     | 2.1     | 3.7     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 14 24 | 2 9     | 2 32    | 2 11    | 2 8     | 1 41    | 2 11    | 2       | 24 13   | 21 81   | 273     | 119     | 2.0     | 2.6     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 15 19 | 1 10    | 2 27    | 2 10    | 2 9     | 2 41    | 2 8     | 2       | 22 13   | 23 72   | 28      | 98      | 2.0     | 2.6     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 16 13 | 1 5     | 1 21    | 1 13    | 2 9     | 2 43    | 2 8     | 2       | 25 11   | 21 51   | 37      | 73      | 1.8     | 2.2     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 17 10 | 1 2     | 1 26    | 2 12    | 2 9     | 2 43    | 2 9     | 2       | 25 12   | 15 27   | 3       | 42      | 1.8     | 2.0     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 18 23 | 2 7     | 1 30    | 2 12    | 2 9     | 2 44    | 2 10    | 2       | 26 13   | 14 22   | 225     | 38      | 1.9     | 2.1     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 19 13 | 1 8     | 1 32    | 2 16    | 2 12    | 2 46    | 3 15    | 3       | 23 14   | 14 25   | 28      | 42      | 2.0     | 2.2     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 20 17 | 1 8     | 1 31    | 2 16    | 2 12    | 2 47    | 3 16    | 3       | 21 14   | 8 5     | 1       | 13      | 2.0     | 2.0     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 21 21 | 1 8     | 1 33    | 2 16    | 2 11    | 2 51    | 3 15    | 3       | 18 14   | 5 8     | 4       | 13      | 2.0     | 2.1     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 22 24 | 2 11    | 2 40    | 2 17    | 3 13    | 2 52    | 3 15    | 3       | 16 17   | 16 16   | 24      | 32      | 3.0     | 3.5     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 23 28 | 2 12    | 2 43    | 2 18    | 3 15    | 2 56    | 3 15    | 3       | 22 17   | 15 32   | 273     | 50      | 2.6     | 3.5     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 24 28 | 2 11    | 2 40    | 2 17    | 3 16    | 2 56    | 3 14    | 3       | 9 17    | 14 50   | 901     | 76      | 3.5     | 5.0     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 25 25 | 2 13    | 2 41    | 2 17    | 3 15    | 2 58    | 3 14    | 3       | 3 17    | 15 67   | 765     | 99      | 3.9     | 6.0     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 26 25 | 2 10    | 2 40    | 2 16    | 2 13    | 2 58    | 3 14    | 3       | 6 16    | 18 28   | 21537   | 269     | 3.6     | 9.8     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 27 28 | 2 11    | 2 44    | 2 17    | 3 11    | 2 60    | 3 15    | 3       | 3 17    | 16 14   | 1802    | 263     | 3.9     | 10.0    |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 28 29 | 2 12    | 2 43    | 2 17    | 3 13    | 2 60    | 3 15    | 3       | 3 17    | 18 7    | 1       | 43      | 4.0     | 4.6     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 29 22 | 1 11    | 2 37    | 2 17    | 3 14    | 2 58    | 3 15    | 3       | 4 16    | 16 14   | 71      | 31      | 3.6     | 4.0     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 30 24 | 2 11    | 2 37    | 2 14    | 2 12    | 2 54    | 3 15    | 3       | 1 16    | 14 27   | 1259    | 54      | 3.8     | 4.8     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 8 31 25 | 2 10    | 2 40    | 2 17    | 3 14    | 2 55    | 3 15    | 3       | 1 17    | 14 22   | 615     | 55      | 4.0     | 5.0     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 9 1 27  | 2 12    | 2 46    | 3 18    | 3 13    | 2 60    | 3 15    | 3       | 2 18    | 20 9    | 6       | 35      | 4.3     | 4.6     |         |  |    |  |       |   |       |                            |       |                                      |  |
| 88      | 9 2 36  | 2 13    | 2 51    | 3 19    | 3 15    | 2 63    | 3 15    | 3       | 3 18    | 19 19   | 19      | 38      | 4.2     | 4.7     |         |  |    |  |       |   |       |                            |       |                                      |  |

<-----SEVERITY CLASS----->  
 LOW MEDIUM HIGH FUEL MODEL  
 <-----><-----><-----><----->  
 0 - 8 - 16 - 17 \* C  
 0 - 22 - 44 - 45 \* G  
 0 - 5 - 11 - 12 \* T

C E W  
 R R I  
 E C N L  
 W O D  
 S V F  
 A A R I  
 A L x R E  
 WILD Rx \*  
 FIRE WF \*  
 .01  
 ACRES ACRES  
 LEVEL LEVEL

|            | AREA A<br>ERC/PTS | AREA B<br>ERC/PTS | AREA C<br>ERC/PTS | AREA D<br>ERC/PTS | AREA E<br>ERC/PTS | AREA F<br>ERC/PTS | AREA G<br>ERC/PTS | A.    | E  | FIRES | S    | ACRES | ACRES | LEVEL | LEVEL |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------|----|-------|------|-------|-------|-------|-------|
| 88 9 3 33  | 2 13              | 2 47              | 3 19              | 3 15              | 2 62              | 3 15              | 3                 | 1 18  | 19 | 21    | 493  | 45    | 4.3   | 5.0   |       |
| 88 9 4 31  | 2 13              | 2 44              | 2 18              | 3 15              | 2 62              | 3 15              | 3                 | 0 17  | 21 | 19    | 89   | 46    | 4.2   | 4.8   |       |
| 88 9 5 29  | 2 14              | 2 42              | 2 18              | 3 16              | 2 62              | 3 15              | 3                 | 0 17  | 18 | 18    | 181  | 39    | 4.1   | 4.7   |       |
| 88 9       |                   |                   |                   |                   |                   |                   |                   |       |    |       |      |       |       |       |       |
| 88 9 6 20  | 1 12              | 2 42              | 2 17              | 3 15              | 2 62              | 3 15              | 3                 | 1 16  | 21 | 12    | 13   | 35    | 4.0   | 4.3   |       |
| 88 9 7 21  | 1 12              | 2 38              | 2 16              | 2 9               | 2 59              | 3 15              | 3                 | 1 15  | 14 | 10    | 2151 | 46    | 3.6   | 4.4   |       |
| 88 9 8 27  | 2 12              | 2 44              | 2 17              | 3 13              | 2 60              | 3 15              | 3                 | 3 17  | 10 | 14    | 2609 | 72    | 3.8   | 5.3   |       |
| 88 9 9 24  | 2 12              | 2 41              | 2 16              | 2 13              | 2 60              | 3 14              | 3                 | 1 16  | 8  | 18    | 207  | 54    | 3.6   | 4.8   |       |
| 88 9 10 24 | 2 9               | 2 39              | 2 14              | 2 9               | 2 57              | 3 15              | 3                 | 3 16  | 10 | 5     | 56   | 18    | 3.5   | 3.7   |       |
| 88 9 11 30 | 2 11              | 2 44              | 2 13              | 2 7               | 1 60              | 3 10              | 2                 | 6 14  | 10 | 2     | 2    | 13    | 2.9   | 3.0   |       |
| 88 9 12 30 | 2 11              | 2 48              | 3 15              | 2 10              | 2 62              | 3 11              | 2                 | 9 16  | 10 | 14    | 11   | 24    | 3.2   | 3.5   |       |
| 88 9 13 34 | 2 12              | 2 52              | 3 16              | 2 11              | 2 64              | 3 13              | 3                 | 7 17  | 11 | 14    | 2605 | 51    | 3.5   | 4.5   |       |
| 88 9 14 36 | 2 13              | 2 49              | 3 17              | 3 14              | 2 64              | 3 18              | 3                 | 8 18  | 10 | 2     | 0    | 38    | 3.6   | 4.3   |       |
| 88 9 15 24 | 2 11              | 2 42              | 2 16              | 2 14              | 2 63              | 3 16              | 3                 | 7 16  | 4  | 9     | 2    | 13    | 3.1   | 3.4   |       |
| 88 9 16 18 | 1 8               | 1 34              | 2 13              | 2 11              | 2 55              | 3 12              | 3                 | 8 14  | 7  | 12    | 17   | 19    | 2.7   | 3.0   |       |
| 88 9 17 21 | 1 5               | 1 33              | 2 11              | 2 7               | 1 54              | 3 10              | 2                 | 4 12  | 7  | 2     | 1    | 9     | 2.6   | 2.7   |       |
| 88 9 18 24 | 2 3               | 1 39              | 2 12              | 2 6               | 1 55              | 3 12              | 3                 | 7 14  | 3  | 11    | 0    | 14    | 2.7   | 3.0   |       |
| 88 9 19 6  | 1 4               | 1 14              | 1 3               | 1 7               | 1 29              | 2 0               | 0                 | 9 8   | 6  | 3     | 2    | 9     | 1.8   | 1.9   |       |
| 88 9 20 13 | 1 4               | 1 14              | 1 2               | 1 8               | 1 33              | 2 0               | 0                 | 16 8  | 6  | 4     | 1    | 10    | 1.7   | 1.7   |       |
| 88 9 21 15 | 1 5               | 1 25              | 2 8               | 1 9               | 2 40              | 2 6               | 2                 | 19 11 | 6  | 4     | 0    | 10    | 1.8   | 1.8   |       |

<-----SEVERITY CLASS----->  
 LOW MEDIUM HIGH FUEL MODEL  
 <.....><.....><.....><.....>  
 0 - 8 - 16 - 17 - C  
 0 - 22 - 44 - 45 - G  
 0 - 5 - 11 - 12 - T

C E W  
 R R I  
 E C N L  
 W O. D  
 S V F  
 A R I  
 V U R  
 A. E WILD WF Rx  
 FIRE .01 P  
 ACRES ACRES RISK  
 LEVEL LEVEL

|            | AREA A  | AREA B  | AREA C  | AREA D  | AREA E  | AREA F  | AREA G  | A. | E  | FIRES | S  | ACRES | ACRES | Rx    | ALL   |
|------------|---------|---------|---------|---------|---------|---------|---------|----|----|-------|----|-------|-------|-------|-------|
|            | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS |    |    |       |    |       |       | LEVEL | LEVEL |
| 89 6 6 17  | 1 4     | 1 12    | 1 8     | 1 3     | 1 21    | 1       | 0       | 5  | 7  | 123   |    |       | 123   | 2.9   | 2.9   |
| 89 6 7 18  | 1 4     | 1 8     | 1 9     | 2 4     | 1 25    | 2 4     | 1       | 2  | 9  | 29    | 5  | 207   | 36    | 2.2   | 2.3   |
| 89 6 8 17  | 1 5     | 1 8     | 1 9     | 2 4     | 1 26    | 2 5     | 1       | 4  | 9  | 147   | 4  | 82    | 154   | 2.9   | 3.2   |
| 89 6 9 14  | 1 3     | 1 12    | 1 9     | 2 3     | 1 26    | 2 4     | 1       | 15 | 9  | 181   | 6  | 151   | 189   | 2.7   | 3.3   |
| 89 6 10 20 | 1 3     | 1 12    | 1 9     | 2 4     | 1 29    | 2 5     | 1       | 16 | 9  | 158   | 5  | 7     | 165   | 2.7   | 3.1   |
| 89 6 11 23 | 2 2     | 1 11    | 1 9     | 2 4     | 1 29    | 2 5     | 1       | 13 | 10 | 25    | 0  | 0     | 25    | 2.0   | 2.0   |
| 89 6 12 22 | 1 3     | 1 12    | 1 9     | 2 4     | 1 28    | 2 5     | 1       | 21 | 9  | 62    | 0  | 0     | 62    | 2.1   | 2.1   |
| 89 6 13 19 | 1 2     | 1 13    | 1 10    | 2 4     | 1 31    | 2 4     | 1       | 31 | 9  | 138   | 0  | 0     | 138   | 2.4   | 2.5   |
| 89 6 14 12 | 1 2     | 1 4     | 1 4     | 1 1     | 1 21    | 1 3     | 1       | 34 | 7  | 104   | 3  | 97    | 108   | 2.1   | 2.1   |
| 89 6 15 11 | 1 3     | 1 2     | 1 1     | 1 0     | 0 11    | 1 1     | 1       | 26 | 7  | 116   | 1  | 20    | 118   | 2.3   | 2.3   |
| 89 6 16 13 | 1 4     | 1 8     | 1 3     | 1 0     | 0 21    | 1 1     | 1       | 24 | 7  | 115   | 0  | 0     | 115   | 2.4   | 2.4   |
| 89 6 17 12 | 1 5     | 1 9     | 1 5     | 1 2     | 1 26    | 2 2     | 1       | 17 | 8  | 0     | 2  | 2     | 2     | 1.6   | 1.6   |
| 89 6 18 13 | 1 5     | 1 11    | 1 5     | 1 4     | 1 26    | 2 4     | 1       | 26 | 8  | 7     | 0  | 0     | 7     | 1.5   | 1.5   |
| 89 6 19 10 | 1 4     | 1 8     | 1 5     | 1 2     | 1 26    | 2 4     | 1       | 33 | 8  | 106   | 0  | 0     | 106   | 2.2   | 2.2   |
| 89 6 20 5  | 1 3     | 1 5     | 1 5     | 1 1     | 1 26    | 2 8     | 2       | 33 | 9  | 102   | 1  | 0     | 103   | 2.2   | 2.2   |
| 89 6 21 12 | 1 4     | 1 11    | 1 7     | 1 3     | 1 30    | 2 3     | 1       | 34 | 8  | 107   | 3  | 90    | 111   | 2.2   | 2.2   |
| 89 6 22 15 | 1 3     | 1 15    | 1 6     | 1 3     | 1 33    | 2 3     | 1       | 35 | 8  | 6     | 8  | 12    | 15    | 1.3   | 1.4   |
| 89 6 23 19 | 1 4     | 1 20    | 1 6     | 1 3     | 1 35    | 2 5     | 1       | 34 | 8  | 35    | 3  | 1     | 38    | 1.6   | 1.6   |
| 89 6 24 26 | 2 5     | 1 24    | 2 7     | 1 5     | 1 39    | 2 7     | 2       | 26 | 11 | 24    | 7  | 42    | 31    | 1.8   | 1.9   |
| 89 6 25 23 | 2 6     | 1 23    | 2 8     | 1 6     | 1 35    | 2 5     | 1       | 28 | 10 | 27    | 2  | 1     | 29    | 1.7   | 1.8   |
| 89 6 26 13 | 1 4     | 1 18    | 1 8     | 1 6     | 1 31    | 2 5     | 1       | 37 | 8  | 29    | 2  | 0     | 31    | 1.5   | 1.5   |
| 89 6 27 18 | 1 6     | 1 17    | 1 8     | 1 6     | 1 33    | 2 5     | 1       | 38 | 8  | 24    | 16 | 13    | 40    | 1.4   | 1.5   |
| 89 6 28 14 | 1 5     | 1 17    | 1 7     | 1 6     | 1 28    | 2 5     | 1       | 40 | 8  | 16    | 13 | 8     | 29    | 1.3   | 1.4   |
| 89 6 29 9  | 1 1     | 1 3     | 1 3     | 1 5     | 1 15    | 1 5     | 1       | 43 | 7  | 18    | 2  | 0     | 20    | 1.2   | 1.2   |
| 89 6 30 12 | 1 2     | 1 7     | 1 2     | 1 4     | 1 17    | 1 3     | 1       | 46 | 7  | 29    | 5  | 55    | 35    | 1.2   | 1.3   |
| 89 7 1 6   | 1 2     | 1 9     | 1 4     | 1 2     | 1 20    | 1 4     | 1       | 36 | 7  | 5     | 7  | 1     | 13    | 1.2   | 1.3   |
| 89 7 2 10  | 1 3     | 1 11    | 1 7     | 1 3     | 1 24    | 2 6     | 2       | 39 | 9  | 1     | 2  | 0     | 3     | 1.2   | 1.3   |
| 89 7 3 5   | 1 3     | 1 13    | 1 7     | 1 5     | 1 24    | 2 5     | 1       | 46 | 8  | 20    | 4  | 3     | 24    | 1.2   | 1.3   |
| 89 7 4 7   | 1 4     | 1 16    | 1 5     | 1 5     | 1 26    | 2 5     | 1       | 35 | 8  | 5     | 13 | 718   | 25    | 1.3   | 1.5   |
| 89 7 5 12  | 1 5     | 1 17    | 1 7     | 1 6     | 1 26    | 2 5     | 1       | 49 | 8  | 7     | 28 | 267   | 45    | 1.1   | 1.4   |
| 89 7 6 16  | 1 6     | 1 18    | 1 9     | 2 7     | 1 30    | 2 6     | 2       | 55 | 10 | 8     | 63 | 1039  | 84    | 1.2   | 1.9   |
| 89 7 7 16  | 1 7     | 1 20    | 1 10    | 2 7     | 1 33    | 2 9     | 2       | 25 | 10 | 13    | 11 | 671   | 41    | 1.7   | 1.9   |
| 89 7 8 15  | 1 6     | 1 19    | 1 8     | 1 7     | 1 32    | 2 7     | 2       | 13 | 9  | 7     | 15 | 2442  | 53    | 1.8   | 2.2   |
| 89 7 9 15  | 1 7     | 1 14    | 1 7     | 1 6     | 1 30    | 2 6     | 2       | 17 | 9  | 9     | 11 | 21    | 45    | 1.7   | 2.0   |
| 89 7 10 13 | 1 5     | 1 15    | 1 8     | 1 5     | 1 32    | 2 5     | 1       | 15 | 8  | 9     | 19 | 1615  | 44    | 1.7   | 2.0   |
| 89 7 11 17 | 1 3     | 1 22    | 1 8     | 1 7     | 1 32    | 2 9     | 2       | 15 | 9  | 37    | 31 | 383   | 88    | 2.0   | 2.4   |
| 89 7 12 19 | 1 6     | 1 22    | 1 10    | 2 7     | 1 32    | 2 8     | 2       | 22 | 10 | 33    | 19 | 370   | 60    | 1.9   | 2.1   |
| 89 7 13 17 | 1 6     | 1 22    | 1 10    | 2 6     | 1 33    | 2 6     | 2       | 46 | 10 | 34    | 27 | 126   | 66    | 1.5   | 1.7   |
| 89 7 14 17 | 1 5     | 1 21    | 1 10    | 2 5     | 1 28    | 2 7     | 2       | 56 | 10 | 34    | 27 | 45    | 63    | 1.5   | 1.7   |
| 89 7 15 14 | 1 3     | 1 20    | 1 8     | 1 3     | 1 30    | 2 4     | 1       | 41 | 8  | 54    | 55 | 2193  | 131   | 1.6   | 2.2   |
| 89 7 16 7  | 1 2     | 1 6     | 1 3     | 1 2     | 1 22    | 1 2     | 1       | 47 | 7  | 29    | 77 | 141   | 129   | 1.2   | 2.1   |
| 89 7 17 12 | 1 2     | 1 10    | 1 4     | 1 2     | 1 21    | 1 2     | 1       | 57 | 7  | 29    | 19 | 19    | 50    | 1.2   | 1.4   |
| 89 7 18 13 | 1 5     | 1 12    | 1 6     | 1 6     | 1 26    | 2 5     | 1       | 57 | 8  | 21    | 10 | 12    | 31    | 1.2   | 1.3   |
| 89 7 19 13 | 1 6     | 1 14    | 1 8     | 1 6     | 1 27    | 2 6     | 2       | 63 | 9  | 21    | 11 | 5     | 32    | 1.3   | 1.4   |



<----SEVERITY CLASS---->  
 LOW MEDIUM HIGH FUEL MODEL  
 <-----><-----><-----><----->  
 0 - 8 - 16 - 17 - C  
 0 - 22 - 44 - 45 - G  
 0 - 5 - 11 - 12 - T

|            | AREA A  | AREA B  | AREA C  | AREA D  | AREA E  | AREA F  | AREA G  | C<br>R<br>E<br>W<br>S<br>A<br>V<br>A<br>L<br>U<br>E | E<br>R<br>C<br>N<br>O.<br>R<br>I<br>F<br>I<br>E<br>S | W<br>I<br>L<br>D<br>F<br>I<br>R<br>E<br>S | Rx .<br>WF .<br>ACRES | Rx .<br>WF .<br>ACRES | Rx<br>ONLY<br>P<br>R<br>E<br>D<br>LEVEL | ALL<br>RISK<br>P<br>R<br>E<br>D<br>LEVEL |       |
|------------|---------|---------|---------|---------|---------|---------|---------|---|--|---|-----------------------|-----------------------|---|--|-------|
|            | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | A.  | E  | F   | S                     | ACRES                 | ACRES                                   | LEVEL                                    | LEVEL |
| 89 7 20 13 | 1 7     | 1 14    | 1 8     | 1 6     | 1 24    | 2 6     | 2 62    | 9   | 17   | 21  | 96                    | 39                    | 1.3                                     | 1.4                                      |       |
| 89 7 21 19 | 1 8     | 1 17    | 1 7     | 1 4     | 1 29    | 2 6     | 2 60    | 9   | 22   | 43  | 13                    | 66                    | 1.3                                     | 1.7                                      |       |
| 89 7 22 18 | 1 7     | 1 19    | 1 9     | 2 7     | 1 31    | 2 9     | 2 48    | 10  | 16   | 8   | 0                     | 24                    | 1.3                                     | 1.4                                      |       |
| 89 7 23 20 | 1 8     | 1 20    | 1 10    | 2 8     | 1 31    | 2 10    | 2 56    | 10  | 17   | 6   | 203                   | 25                    | 1.3                                     | 1.4                                      |       |
| 89 7 24 20 | 1 9     | 2 22    | 1 11    | 2 8     | 1 32    | 2 10    | 2 63    | 11  | 23   | 26  | 177                   | 53                    | 1.4                                     | 1.7                                      |       |
| 89 7 25    | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 65  | 13   | 27  | 20                    | 68                    | 49                                      | 1.6                                      | 1.8   |
| 89 7 26    | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 65  | 13   | 25  | 17                    | 24                    | 43                                      | 1.6                                      | 1.7   |
| 89 7 27    | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 24  | 13   | 24  | 196                   | 4581                  | 266                                     | 2.0                                      | 4.0   |
| 89 7 28    | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 12  | 13   | 16  | 94                    | 1271                  | 169                                     | 2.5                                      | 6.3   |
| 89 7 29    | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 3   | 13   | 15  | 39                    | 354                   | 70                                      | 3.1                                      | 4.4   |
| 89 7 30    | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 2   | 13   | 14  | 25                    | 2537                  | 68                                      | 3.1                                      | 4.4   |
| 89 7 31    | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 1   | 13   | 14  | 45                    | 127                   | 86                                      | 3.2                                      | 4.9   |
| 89 8 1     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 2   | 13   | 1   | 43                    | 498                   | 50                                      | 2.8                                      | 4.0   |
| 89 8 2     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 2   | 13   | 6   | 20                    | 10                    | 31                                      | 2.9                                      | 3.5   |
| 89 8 3     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 1   | 13   | 6   | 13                    | 7                     | 19                                      | 3.0                                      | 3.3   |
| 89 8 4 19  | 1 6     | 1 19    | 1 9     | 2 9     | 2 31    | 2 7     | 2 2     | 11  | 5  | 3   | 0                     | 8                     | 2.5                                     | 2.6                                      |       |
| 89 8 5 20  | 1 7     | 1 22    | 1 11    | 2 9     | 2 33    | 2 7     | 2 0     | 11  | 5  | 7   | 22                    | 12                    | 2.6                                     | 2.8                                      |       |
| 89 8 6 22  | 1 8     | 1 22    | 1 11    | 2 8     | 1 34    | 2 10    | 2 0     | 10  | 5  | 11  | 179                   | 18                    | 2.4                                     | 2.7                                      |       |
| 89 8 7 24  | 2 7     | 1 20    | 1 10    | 2 10    | 2 34    | 2 7     | 2 0     | 12  | 6  | 94  | 353                   | 105                   | 2.8                                     | 5.3                                      |       |
| 89 8 8 22  | 1 6     | 1 17    | 1 4     | 1 8     | 1 30    | 2 5     | 1 0     | 8   | 6  | 114                                       | 408                   | 128                   | 2.0                                     | 3.0                                      |       |
| 89 8 9 21  | 1 7     | 1 16    | 1 4     | 1 2     | 1 33    | 2 3     | 1 1     | 8   | 6  | 154                                       | 2705                  | 191                   | 2.0                                     | 3.5                                      |       |
| 89 8 10 22 | 1 8     | 1 20    | 1 6     | 1 6     | 1 30    | 2 5     | 1 9     | 8   | 6  | 156                                       | 69                    | 190                   | 1.8                                     | 3.3                                      |       |
| 89 8 11 22 | 1 8     | 1 23    | 2 9     | 2 7     | 1 30    | 2 7     | 2 9     | 11  | 6  | 100                                       | 313                   | 110                   | 2.0                                     | 2.9                                      |       |
| 89 8 12 24 | 2 9     | 2 22    | 1 10    | 2 9     | 2 30    | 2 9     | 2 10    | 13  | 6  | 44  | 32                    | 53                    | 2.4                                     | 3.6                                      |       |
| 89 8 13 22 | 1 6     | 1 22    | 1 9     | 2 8     | 1 31    | 2 10    | 2 6     | 10  | 7  | 177                                       | 444                   | 189                   | 2.0                                     | 3.5                                      |       |
| 89 8 14 15 | 1 7     | 1 21    | 1 10    | 2 8     | 1 31    | 2 10    | 2 12    | 10  | 6  | 92  | 150                   | 104                   | 1.9                                     | 2.7                                      |       |
| 89 8 15 13 | 1 3     | 1 21    | 1 9     | 2 7     | 1 33    | 2 10    | 2 14    | 10  | 6  | 19  | 18                    | 27                    | 1.8                                     | 2.0                                      |       |
| 89 8 16 11 | 1 2     | 1 21    | 1 9     | 2 6     | 1 34    | 2 10    | 2 11    | 10  | 5  | 25  | 86                    | 31                    | 1.9                                     | 2.1                                      |       |
| 89 8 17 16 | 1 4     | 1 22    | 1 9     | 2 7     | 1 34    | 2 10    | 2 19    | 10  | 5  | 11  | 16                    | 17                    | 1.7                                     | 1.8                                      |       |
| 89 8 18 19 | 1 5     | 1 22    | 1 10    | 2 8     | 1 33    | 2 8     | 2 18    | 10  | 7  | 21  | 28                    | 28                    | 1.8                                     | 1.9                                      |       |
| 89 8 19 17 | 1 4     | 1 20    | 1 8     | 1 4     | 1 33    | 2 8     | 2 21    | 9   | 8  | 11  | 24                    | 20                    | 1.7                                     | 1.8                                      |       |
| 89 8 20 16 | 1 3     | 1 17    | 1 7     | 1 4     | 1 30    | 2 6     | 2 22    | 9   | 9  | 32  | 387                   | 45                    | 1.6                                     | 1.9                                      |       |
| 89 8 21 7  | 1 3     | 1 9     | 1 7     | 1 3     | 1 26    | 2 4     | 1 28    | 8   | 3  | 22  | 6                     | 29                    | 1.4                                     | 1.6                                      |       |
| 89 8 22 6  | 1 4     | 1 4     | 1 5     | 1 0     | 0 21    | 1 2     | 1 35    | 7   | 0  | 8   | 0                     | 8                     | 1.2                                     | 1.3                                      |       |
| 89 8 23 7  | 1 5     | 1 1     | 1 0     | 0 0     | 0 16    | 1 0     | 0 36    | .7  | 5  | 5   | 1                     | 10                    | 1.2                                     | 1.3                                      |       |
| 89 8 24 10 | 1 5     | 1 5     | 1 3     | 1 0     | 0 21    | 1 0     | 0 42    | 7   | 3  | 4   | 3                     | 7                     | 1.1                                     | 1.1                                      |       |
| 89 8 25 12 | 1 3     | 1 10    | 1 4     | 1 0     | 0 23    | 2 2     | 1 41    | 8   | 4  | 11  | 3                     | 15                    | 1.2                                     | 1.3                                      |       |
| 89 8 26 14 | 1 1     | 1 13    | 1 6     | 1 0     | 0 26    | 2 2     | 1 33    | 8   | 3  | 4   | 2                     | 7                     | 1.3                                     | 1.4                                      |       |
| 89 8 27 14 | 1 2     | 1 13    | 1 6     | 1 0     | 0 28    | 2 3     | 1 31    | 8   | 1  | 13  | 325                   | 17                    | 1.4                                     | 1.5                                      |       |
| 89 8 28 16 | 1 3     | 1 16    | 1 7     | 1 3     | 1 30    | 2 4     | 1 46    | 8   | 5  | 33  | 40                    | 42                    | 1.1                                     | 1.4                                      |       |
| 89 8 29 19 | 1 4     | 1 13    | 1 8     | 1 2     | 1 27    | 2 4     | 1 44    | 8   | 6  | 5   | 73                    | 12                    | 1.1                                     | 1.2                                      |       |
| 89 8 30 15 | 1 4     | 1 9     | 1 3     | 1 1     | 1 15    | 1 4     | 1 49    | 7   | 5  | 9   | 321                   | 18                    | 1.0                                     | 1.1                                      |       |
| 89 8 31 11 | 1 4     | 1 15    | 1 6     | 1 2     | 1 28    | 2 4     | 1 54    | 8   | 4  | 29  | 286                   | 39                    | 1.1                                     | 1.4                                      |       |
| 89 9 1 10  | 1 4     | 1 12    | 1 7     | 1 3     | 1 27    | 2 3     | 1 53    | 8   | 0  | 26  | 28                    | 29                    | 1.1                                     | 1.3                                      |       |
| 89 9 2 6   | 1 3     | 1 10    | 1 6     | 1 2     | 1 28    | 2 2     | 1 42    | 8   | 0  | 6   | 0                     | 6                     | 1.1                                     | 1.2                                      |       |

<----SEVERITY CLASS---->  
 LOW MEDIUM HIGH FUEL MODEL  
 <-----><-----><----->----->  
 0 - 8 - 16 - 17 \* C  
 0 - 22 - 44 - 45 \* G  
 0 - 5 - 11 - 12 \* T

|            |         |         |         |         |         |         |   |    |    | C  | E  | W     |      |       | Rx    | ALL   |       |
|------------|---------|---------|---------|---------|---------|---------|---|----|----|----|----|-------|------|-------|-------|-------|-------|
|            |         |         |         |         |         |         |   |    |    | R  | R  | I     |      |       | ONLY  | RISK  |       |
|            |         |         |         |         |         |         |   |    |    | E  | C  | N     | L    |       |       | P     | P     |
|            |         |         |         |         |         |         |   |    |    | W  | O. | D     |      |       | R     | R     |       |
|            |         |         |         |         |         |         |   |    |    | S  | V  | P     |      |       | E     | E     |       |
|            |         |         |         |         |         |         |   |    |    | A  | A  | R     | I    |       |       | D     | D     |
|            |         |         |         |         |         |         |   |    |    | A  | L  | x     | R    | WILD  | Rx    | R     |       |
|            |         |         |         |         |         |         |   |    |    | V  | U  | E     | PIRE | WF    | .01   | E     |       |
| AREA A     | AREA B  | AREA C  | AREA D  | AREA E  | AREA F  | AREA G  |   |    |    | A. | E  | PIRES | S    | ACRES | ACRES | LEVEL | LEVEL |
| ERC/PTS    | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS | ERC/PTS |   |    |    | A. | E  | PIRES | S    | ACRES | ACRES | LEVEL | LEVEL |
| 89 9 3 14  | 1 4     | 1 17    | 1 7     | 1 3     | 1 29    | 2 3     | 1 | 46 | 8  | 0  | 18 |       | 4    | 18    | 1.1   | 1.2   |       |
| 89 9 4 14  | 1 5     | 1 18    | 1 9     | 2 5     | 1 31    | 2 5     | 1 | 42 | 9  | 0  | 12 | 434   | 16   | 1.2   | 1.3   |       |       |
| 89 9 5 16  | 1 6     | 1 18    | 1 8     | 1 5     | 1 31    | 2 3     | 1 | 49 | 8  | 0  | 33 | 472   | 42   | 1.1   | 1.4   |       |       |
| 89 9 6 24  | 2 9     | 2 21    | 1 8     | 1 5     | 1 34    | 2 3     | 1 | 49 | 10 | 7  | 15 | 4     | 27   | 1.2   | 1.4   |       |       |
| 89 9 7 22  | 1 6     | 1 24    | 2 8     | 1 5     | 1 36    | 2 4     | 1 | 46 | 9  | 17 | 17 | 68    | 35   | 1.3   | 1.4   |       |       |
| 89 9 8 24  | 2 5     | 1 28    | 2 10    | 2 5     | 1 38    | 2 6     | 2 | 43 | 12 | 28 | 8  | 14    | 37   | 1.6   | 1.6   |       |       |
| 89 9 9 28  | 2 6     | 1 31    | 2 9     | 2 5     | 1 39    | 2 6     | 2 | 35 | 12 | 0  | 26 | 8     | 26   | 1.5   | 1.7   |       |       |
| 89 9 10 31 | 2 7     | 1 35    | 2 10    | 2 5     | 1 40    | 2 8     | 2 | 35 | 12 | 16 | 19 | 21    | 35   | 1.6   | 1.8   |       |       |
| 89 9 11 34 | 2 7     | 1 37    | 2 11    | 2 6     | 1 41    | 2 8     | 2 | 33 | 12 | 32 | 20 | 95    | 53   | 1.8   | 2.0   |       |       |
| 89 9 12 35 | 2 8     | 1 39    | 2 12    | 2 7     | 1 45    | 3 7     | 2 | 34 | 13 | 32 | 28 | 69    | 62   | 1.8   | 2.1   |       |       |
| 89 9 13 36 | 2 8     | 1 43    | 2 13    | 2 8     | 1 49    | 3 10    | 2 | 40 | 13 | 32 | 21 | 68    | 54   | 1.7   | 1.9   |       |       |
| 89 9 14 39 | 2 9     | 2 44    | 2 14    | 2 10    | 2 51    | 3 10    | 2 | 45 | 15 | 12 | 16 | 54    | 29   | 1.6   | 1.7   |       |       |
| 89 9 15 33 | 2 10    | 2 43    | 2 13    | 2 9     | 2 50    | 3 12    | 3 | 44 | 16 | 35 | 9  | 1     | 45   | 1.9   | 1.9   |       |       |
| 89 9 16 22 | 1 9     | 2 41    | 2 7     | 1 8     | 1 43    | 2 8     | 2 | 29 | 11 | 22 | 11 | 81    | 34   | 1.7   | 1.8   |       |       |
| 89 9 17 21 | 1 4     | 1 33    | 2 1     | 1 0     | 0 19    | 1 0     | 0 | 31 | 8  | 24 | 7  | 0     | 32   | 1.6   | 1.6   |       |       |
| 89 9 18 24 | 2 8     | 1 33    | 2 1     | 1 0     | 0 26    | 2 1     | 1 | 42 | 11 | 33 | 6  | 1     | 39   | 1.6   | 1.6   |       |       |
| 89 9 19 25 | 2 8     | 1 34    | 2 5     | 1 2     | 1 30    | 2 4     | 1 | 40 | 10 | 34 | 9  | 7     | 43   | 1.6   | 1.6   |       |       |
| 89 9 20 27 | 2 8     | 1 36    | 2 8     | 1 4     | 1 34    | 2 6     | 2 | 40 | 11 | 35 | 18 | 626   | 59   | 1.6   | 1.8   |       |       |