

# **ADVANCED NATIONAL FIRE DANGER RATING SYSTEM**



**2009**

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Tuesday February 17, 2009	NATIONAL ADVANCED FIRE AND RESOURCE INSTITUTE	
	<i>TRAVEL DAY TO NAFRI</i>	
1000-1100	Steering Committee Meeting	Steering Committee
1100-1200	Faculty Meeting	Faculty
1200-1300	LUNCH	
1300-1400	NAFRI Details Welcome and Introduction Connectivity and Computer Setup Review of Pre-Course Work	Tim Peterson Clint Cross Kai Olsen Stephaney Church
1400-1500	Lesson 1— Introduction of Fire Danger Rating Operating Plan Exercise	Brian Goff Russ Gripp
1500-1630	Lesson 2 – Lab 1 GIS/ARCMaP tutorial	Katie Madrid-Hipke
1630-1700	Groups meet with coaches	Coaches
1700	Daily Wrap-Up	Clint Cross

<b>Wednesday</b> <b>February 18, 2009</b>	<b>NATIONAL ADVANCED FIRE AND RESOURCE INSTITUTE</b>	
	Daily Review	<b>Clint Cross</b>
0800-0900	Lesson 3 - History, Perspective, and Principles of National Fire Danger Rating System	Russ Gripp
0900-1000	Lesson 4 - Fire Danger Rating, Planning and Operations	Brian Goff
1000-1200	Lesson 5 - Framing the Fire Problem	Dave Christenson Jeff Kline
1200-1300	LUNCH	
1300-1400	Exercise 1 – Identification of Fire Problem	Bryan Schieber Brian Goff
1400-1530	Lesson 6 - Component / Indicies (Matching Tasks and Sensitivity)	Jeff Kline
1530-1700	Exercise 2 - Matching of NFDRS Indicies and Components	Chris Waters Brian Goff
1700	Daily Wrap-Up	<b>Clint Cross</b>
1800	Ice Breaker	

<b>Thursday</b> <b>February 19, 2009</b>	<b>NATIONAL ADVANCED FIRE AND RESOURCE INSTITUTE</b>	
	Daily Review	<b>Shari Miller</b>
0800-0930	Lesson 7 - Climatology and Fire Danger Rating	Tim Brown
0930-1030	Lesson 8 - Meteorologist input to the Fire Danger Rating Operating Plan	Ed Delgado
1030-1130	Lesson 9 - Classification of Geographic Areas for Fire Danger Rating	Jeff Kline
1130-1230	LUNCH	
1230-1400	Exercise 3 - Characterization of Vegetation, Topography and Climate	Chuck Maxwell Andrew Thompson Brian Goff
1400 - 1500	Lesson 10 - Data Sets & Quality Assurance	Dave Christensen Kai Olsen
1500 - 1700	Lesson 11 - Statistics used in FireFamily Plus	Larry Bradshaw
1700	Daily Wrap -Up	<b>Shari Miller</b>

Friday February 20, 2009	NATIONAL ADVANCED FIRE AND RESOURCE INSTITUTE	
	Daily Review	<b>Deb Roy</b>
0800-1000	Lesson 12 – Lab 2 Advanced Fuel Moisture Concepts	Matt Jolly
1000-1030	Review of Exercises 1, 2, & 3	Brian Goff Russ Gripp
1030-1200	Exercise 4 - Developing Fire Danger Rating Areas	Dennis Perilli Kim Kelly Brian Goff
1200-1300	LUNCH	
1300-1430	Lesson 13 Lab 3 - Evaluating Weather Stations for Fire Danger Rating Areas	Tim Brown
1430-1530	Lesson 14 - Developing and Managing Your Fire Danger Network	Gary Curcio
1530-1700	Exercise 5 - Validating Fire Weather Stations	Shelby Sharples Brian Goff
1700	Daily Wrap-Up	<b>Deb Roy</b>

Monday February 23, 2009	NATIONAL ADVANCED FIRE AND RESOURCE INSTITUTE	
	Daily Review	
0800-0830	Review of Exercises 4 & 5	Brian Goff Russ Gripp
0830-1000	Lesson 15 - Fuel Moisture, Fuel Transfer Concepts and KBDI Matt Jolly	
1000-1130	Lesson 16 - Advanced Features of FireFamily Plus Larry Bradshaw	
1130-1230	LUNCH	
1230-1400	Lesson 17 - Lab 4 Advanced Features of FireFamily Plus Larry Bradshaw	
1400-1530	Lesson 18 - Managing the Model Clint Cross Russ Gripp	
1530-1700	Exercise 6 - Assigning Slope Class, Climate Class, and Herbaceous Type Jessica Wade Brian Goff	
1700	Daily Wrap-Up	

Tuesday February 24, 2009	NATIONAL ADVANCED FIRE AND RESOURCE INSTITUTE	
	Daily Review	<b>Shelby Sharples</b>
0800-0900	Lesson 19 - Risk and Decision Making in Fire Management	John Swanson
0900-0930	Lesson 20 - Fire Weather Innovations	Linnea Keating
0930-1030	Lesson 21 - Defining Decision Thresholds	Matt Jolly Jon Wallace
1030-1130	Lesson 22 - Lab 5 Fire Business Thresholds	Larry Bradshaw
1130-1230	LUNCH	
1230-1500	Lesson 22 - Lab 5 Fire Business Thresholds (Cont'd)	Larry Bradshaw
1500-1700	Lesson 23 - Lab 6 Creating a Unique Fire Data Set	Kai Olsen Deb Roy Sue Petersen
1700	Daily Wrap-Up	<b>Shelby Sharples</b>
1800	Social at Residence Inn	



<b>Wednesday</b> <b>February 25, 2009</b>	<b>NATIONAL ADVANCED FIRE AND RESOURCE INSTITUTE</b>	
	Daily Review	<b>Jessica Wade</b>
0800-0900	Lesson 24 - Applications of Breakpoints and Thresholds	Tobin Kelly
0900-1100	Lesson 25 - Fire Management Officer Perspective and Local Application	Brian Goff
1100-1200	LUNCH	
1200-1700	Exercise 7 - Matching NFDRS Outputs to Fire Business	Jon Wallace Brian Goff
1700	Daily Wrap-Up	<b>Jessica Wade</b>

<b>Thursday</b> <b>February 26, 2009</b>	<b>NATIONAL ADVANCED FIRE AND RESOURCE INSTITUTE</b>	
	<b>Daily Review</b>	<b>Stephaney Church</b>
0800-0900	Lesson 26 - National Level Perspective of Current Issues & Future Direction of NFDRS	Paul Schlobohm Dan Olsen
0900-1030	Lesson 27 - National and Geographic Area Coordination Center Applications	Tom Wordell Heath Hockenberry
1030-1100	Lesson 28 - My Fire Community	Paula Nasiatka
1100-1200	LUNCH	
1200-1730	Exercise 8 - Preparation of NFDRS Operating Plan	Brian Goff
1730	Daily Wrap-Up	<b>Stephaney Church</b>
1800	Plans Due	Brian Goff

Friday February 27, 2009	NATIONAL ADVANCED FIRE AND RESOURCE INSTITUTE	
0730-1030	Presentation - 15 minutes per group	Brian Goff Russ Gripp
1030-1130	Faculty Feedback on Operating Plan	Coaches
1130-1200	Close out and evaluations	Clint Cross
	<i>TRAVEL DAY</i> FROM NAFRI	

# 2009 NFDRS Participant Roster

**Achziger Brian**  
Bureau of Land Management  
Phoenix District BLM  
Phoenix AZ

**Ainslie Peggy**  
National Park Service  
New River Gorge National River  
Beaver WV

**Albertson Clint**  
US Forest Service  
Fremont NF - Lakeview Dist  
Lakeview OR

**Baird Cathy**  
US Forest Service  
Boise National Forest  
Boise ID

**Bulock Kristi**  
Bureau of Land Management  
Casper FO / Interagency Dispatch  
Casper WY

**Busse Kathryn**  
US Forest Service  
Okanogan and Wenatchee  
Wenatchee WA

**Cowan Kyle**  
Bureau of Land Management  
Rock Springs Field Office  
Rock Springs WY

**Giacoletto Mark**  
US Forest Service  
Shoshone National Forest  
Cody WY

**Gibson Glenn**  
US Fish and Wildlife Service  
Desert NWRC  
Las Vegas NV

**Hill Alan**  
NC Division of Forest Resources  
District 1  
Asheville NC

**Hinker Angie**  
US Forest Service  
Great Plains Dispatch  
Rapid City SD

**Hislop Leigh Ann**  
US Forest Service  
Boise National Forest  
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Cedar City UT

**Lenihan David Michael**  
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**Maple Lynn**  
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**Marshall Robert**  
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**Ortiz Juan R.**  
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Gila NF Supervisors Office  
Silver City NM

**Parks Jacquie**  
US Forest Service  
Darby Ranger District  
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**Rankin Todd**  
National Park Service  
Olympic National Park  
Port Angeles WA

**Reed Valerie**  
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**Roose Melanie**  
US Forest Service  
Caribou-Targhee Headquarters  
Idaho Falls ID

**Schmid Richard**  
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Pogue River Siskiyou NF  
Medford OR

**Smith Shauna**  
US Forest Service  
Lolo National Forest  
Missoula MT

**Snart Rocco**  
Jefferson County Sheriff's Office  
Jefferson County  
Golden CO

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**Vonn Teresa**  
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National Weather Service  
Monterey CA

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**ADVANCED NATIONAL FIRE DANGER RATING SYSTEM  
2009**

**Tucson, Arizona**

**STEERING ROSTER**

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# NATIONAL FIRE DANGER RATING SYSTEM

February 17-27, 2009

Tucson, Arizona

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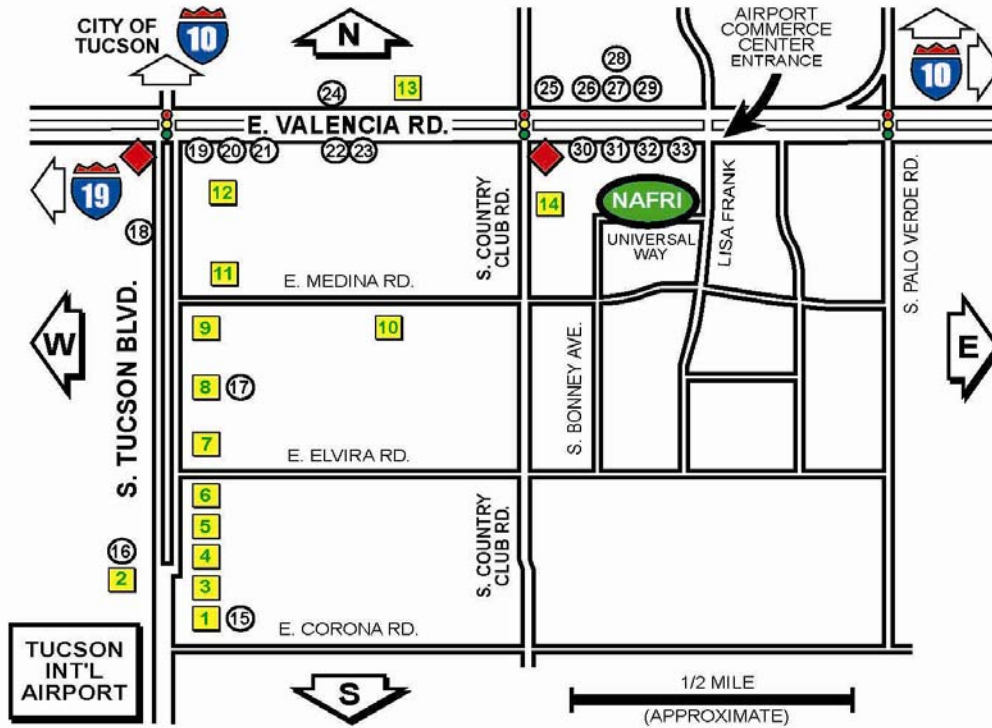
3265 East Universal Way, Tucson, AZ 85706



## Area Map

# NATIONAL ADVANCED FIRE & RESOURCE INSTITUTE

3265 East Universal Way • Tucson, Arizona 85706



<span style="color: yellow;">■</span> HOTELS	<span style="color: white;">○</span> RESTAURANTS	<span style="color: red;">◆</span> CONVENIENCE & GAS	<span style="color: green;">⬆</span> TRAFFIC LIGHTS
1 Tucson Airport Hotel & Suites 2 Best Western Las Brisas 3 La Quinta Inn 4 Hampton Inn	5 Fairfield Inn 6 Comfort Ste. 7 Hyatt Place 8 Clarion Hotel	9 Holiday Inn Exp. 10 Country Inn 11 Courtyard Marriott 12 Quality Inn	13 Residence Inn Marriott 14 Hilton Garden Inn
15 Finnegan's 16 The Inn Place & Las Brisas Bar/Grill 17 Morgan's 18 Subway 19 Burger King	20 Kyoto Bowl 21 Denny's 22 Jerry Bob's 23 Quiznos 24 Waffle House	25 McDonald's 26 Wendy's 27 Baggins 28 Cafe Nation 29 Carl's Jr.	30 Sachiko Sushi 31 Los Betos 32 Eegee's 33 Schlotzky's

REVISED 9/11/07

## Nearby Hotels

<b>Best Western Las Brisas</b> ....	7060 S. Tucson Blvd .....	520-746-0271/800-780-7234
	Fax 520-889-7391 .....	<a href="http://www.bestwestern.com">www.bestwestern.com</a>
<b>Clarion Hotel</b> .....	6801 S. Tucson Blvd .....	520-746-3932/877-424-6423
	Fax 520-889-9934 .....	<a href="http://www.choicehotels.com">www.choicehotels.com</a>
<b>Comfort Suites</b> .....	6935 S. Tucson Blvd .....	520-295-4400/877-424-6423
	Fax 520-295-4497 .....	<a href="http://www.choicehotels.com">www.choicehotels.com</a>
<b>Country Inn &amp; Suites</b> .....	6681 S. Tucson Blvd .....	520-741-9000/888-201-1746
	Fax 520-741-9100 .....	<a href="http://www.countryinns.com">www.countryinns.com</a>
<b>Courtyard by Marriott</b> .....	2505 E. Executive Drive .....	520-573-0000/800-321-2211
	Fax 520-573-0470 .....	<a href="http://www.courtyard.com">www.courtyard.com</a>
<b>Fairfield Inn by Marriott</b> .....	6955 S. Tucson Blvd .....	520-295-8800/800-228-2800
	Fax 520-295-8898 .....	<a href="http://www.fairfieldinn.com">www.fairfieldinn.com</a>
<b>Hampton Inn</b> .....	6971 S. Tucson Blvd .....	520-918-9000/800-426-7866
	Fax 520-889-4002 .....	<a href="http://www.hamptoninn.com">www.hamptoninn.com</a>
<b>Hilton Garden Inn</b> .....	6575 S. Country Club Road	
	Scheduled to open early 2008	
<b>Holiday Inn Express</b> .....	2548 E. Median Road .....	520-899-6600/888-465-4329
	Fax 520-889-6168 .....	<a href="http://www.ichotelsgroup.com">www.ichotelsgroup.com</a>
<b>Hyatt Place</b> .....	6885 S Tucson Blvd .....	520-295-0405/888-HYATT HP
	Fax 520-295-9140 .....	<a href="http://www.tucsonairport.place.hyatt.com">www.tucsonairport.place.hyatt.com</a>
<b>La Quinta Inn &amp; Suites</b> .....	7001 S. Tucson Blvd .....	520-573-3333/866-725-1661
	Fax 520-573-7710 .....	<a href="http://www.laquinta.com">www.laquinta.com</a>
	Enter NAFRI in promotion/corporate field	
<b>Quality Inn Airport</b> .....	2803 E. Valencia .....	520-294-2500/866-725-1661
	Fax 520-741-0851 .....	<a href="http://www.qualityinn.com">www.qualityinn.com</a>
<b>Residence Inn by Marriott</b> ..	2660 E. Medina Road .....	520-294-5522/888-236-2427
	Fax 520-294-5542 .....	<a href="http://www.marriott.com">http://www.marriott.com</a>
	Scheduled to open early 2008	
<b>Tucson Airport Hotel</b> .....	7051 S. Tucson Blvd .....	520-573-0700
<b>&amp; Suites</b>	Fax 520-741-9645 .....	<a href="http://www.tucsonairportsuiteshotel.com">www.tucsonairportsuiteshotel.com</a>

### Specify TUCSON AIRPORT Location

All hotels provide shuttle service to and from the airport, as well as daily shuttle to and from the Institute. All hotels provide a free continental breakfast. Please mention you are with NAFRI. Other amenities are provided on a hotel by hotel basis. Be sure to confirm with the hotel when making your reservations.

# Tucson Facts and Recreation

Tucson is located in the Sonoran Desert approximately 100 miles south of Phoenix and 60 miles north of the Mexico border. It is 2,389 feet above sea level. You can expect typical Sonoran Desert climate during your stay. Temperature highs and lows from November to March are usually in the seventies during the day and forties at night. Late spring and summer daytime temperatures can run into the one-hundreds, with fifty to seventy degrees at night. Tucson receives an average of 350 days of sunshine annually.

Arizona is located in the Mountain Standard Time Zone (MST), however, AZ does not adjust to Daylight Savings Time, and therefore, during the months of April through October, AZ time mirrors Pacific Daylight Time.

Tucson is an ideal area for recreational and cultural activities, if the length of your stay allows time for exploration. Tucson has the flavor of a metropolitan area without forgetting the cultural amenities of its pioneer past. The area abounds with art museums, theaters, restaurants, resorts, and shopping areas.

Tucson metropolitan area covers 500 square miles and the valley is surrounded by five mountain ranges:

- Santa Catalinas – rugged range north and northeast
- Rincon – rolling mountains to the east
- Santa Rita – flanking the distant south & southeast
- Tucson Mountains – shorter, jagged mountains to the west
- Tortolita – closing the ring on the northwest side.

Tucson is the home of the Saguaro National Park, Arizona-Sonora Desert Museum and Coronado National Forest. All these areas provide an excellent interpretation of desert life. The Desert Museum features living examples of typical plants and animals.

Did you know that a Saguaro cactus doesn't start to grow its traditional arms until it is seventy-plus years old? You can learn this and more at the Saguaro National Park operated by the National Park Service. The Coronado National Forest is a study in contrasts. A two-hour drive can take you from desert to alpine lands where Mt. Lemmon features skiing in winter (weather permitting). More than thirty campgrounds are located throughout the Forest. Sabino Canyon east of Tucson is a popular spot known for its cool waters.

Other points of interest include Mission San Xavier del Bac south of Tucson; the frontier town of Tombstone where the famous OK Corral gun battle took place; Nogales, Sonora, Mexico for south-of-the-border shopping and sightseeing; and Tucson's many fine shopping areas including the Foothills, Tucson, Park Place, and El Con Malls.

Make sure you bring clothing suited to the time of your visit. You may want to pack athletic clothes, as the wide-open space provides many jogging and hiking areas.

For free visitor information, call or write:  
Tucson Convention and Visitors Bureau  
130 S. Scott Avenue  
Tucson, Arizona 85701  
(520) 624-1817  
[www.visittucson.org](http://www.visittucson.org)

# DINING

## **Finnegan's**

Located in Tucson Airport Hotel & Suites  
Food & Beverages served until 11:00 pm

## **Morgan's**

Located in the Clarion Hotel  
Food & Beverages served until 11:00 pm

## **The Inn Place**

Located in the Best Western Las Brisas  
Food & Beverages served in the evening from 7:00 am to 10:00 pm

## **Las Brisas Bar & Grill**

Located in the Best Western Las Brisas  
Food & Beverages served in the evening from 11:00 am to 10:00 pm

## **Sachiko Sushi**

Japanese cuisine, sushi bar and evening karaoke  
Food & Beverages served 10:30 am to 11:00 pm

## **Denny's**

24-hour restaurant

## **Jerry Bob's Family Restaurant**

Home-cooked food, Breakfast and lunch menu  
Food & Beverages served 5:00 am to 2:00 pm

## **Waffle House**

Breakfast anytime  
24 hour restaurant

## **Kyoto Bowl**

Japanese Cuisine  
Open 10:30 am to 9:00 pm

## **Los Betos Mexican Restaurant**

Drive-thru  
Open 4:30 am to 12 Midnight

## **Caffe Nation**

Coffee, espresso, bagels, baked goods and specialty lunch menu  
Free wireless internet available. Food & Beverages served 6:00 am to 6:00 pm

## **Fast Food in Area**

Burger King  
Baggins Gourmet Sandwiches  
Carl's Jr.  
Eegee's  
McDonald's

Quiznos  
Schlotzky's Deli  
Subway  
Wendy's