



98 JUN 11 AM 8 48

Barbara Middleton

BARBARA MIDDLETON
COUNTY CLERK POLK CO

**NOTICE OF EMERGENCY MEETING OF THE
COMMISSIONERS COURT OF POLK COUNTY, TEXAS # 62**

Notice is hereby given that an Emergency meeting of the above named Commissioners' Court will be held on Friday, June 12, 1998 at 9 00 a m in the County Courthouse, Livingston, Texas, at which time the following subjects will be discussed, to wit

CONSIDER PROPOSED BAN OF AERIAL FIREWORKS

Dated Thursday, June 11, 1998

Commissioners' Court of Polk County, Texas

By *John P. Thompson*

John P. Thompson, County Judge

I, the undersigned County Clerk, do hereby certify that the above Notice of Meeting of Polk County Commissioners Court, is a true and correct copy of said Notice, and that I posted a true and correct copy of said notice at the door of the County Courthouse of Polk County, Texas, at a place readily accessible to the general public at all times on Thursday, June 11, 1998, and said notice remained so posted continuously for at least 24 hours preceding the scheduled time of said meeting

Notice filed, Thursday, June 11, 1998

Barbara Middleton, County Clerk

By *Barbara Middleton*

STATE OF TEXAS }

DATE JUNE 12, 1998

COUNTY OF POLK }

"EMERGENCY" CALLED MEETING

BOBBY SMITH ABSENT
JAMES J "Buddy" PURVIS-ABSENT
KAREN REMMERT ABSENT

BE IT REMEMBERED ON THIS THE 12th DAY OF JUNE, 1998
THE HONORABLE COMMISSIONERS COURT MET IN "EMERGENCY" CALLED
MEETING WITH THE FOLLOWING OFFICERS AND MEMBERS PRESENT, TO WIT
JOHN P THOMPSON COUNTY JUDGE, PRESIDING
B E "SLIM" SPEIGHTS COUNTY COMMISSIONER PCT#1, R R "DICK" HUBERT,
COUNTY COMMISSIONER PCT#4, AND BARBARA MIDDLETON, COUNTY CLERK,
THE FOLLOWING AGENDA ITEMS, ORDERS, AND DECREES WERE DULY HAD,
CONSIDERED, & PASSED

- 1 WELCOME & CALLED TO ORDER BY JUDGE JOHN P THOMPSON AT 9 00 AM
JOHN McDOWELL, EMERGENCY MANAGEMENT COORDINATOR, FOR
POLK COUNTY, PURPOSE OF THE MEETING WAS STATED & DISCUSSION
WAS HELD, WITH THE TEXAS FOREST SERVICE REPRESENTATIVE
- 2 MOTIONED BY R R "Dick" HUBERT, SECONDED BY B E "Slim" SLEIGHTS
TO APPROVE "ORDER" TO BAN THE USE OF CERTAIN (AERIAL) FIREWORKS,
IN UNINCORPORATED AREAS OF THE COUNTY (uness such use meets provisions
stated within said "Order"), AND ALLOWING FOR THE PROVISION FOR JUDGE
THOMPSON TO LIFT THE BAN IF SUFFICIENT RAINFALL OCCURS BEFORE
JULY FOURTH (4th) HOLIDAY
ALL VOTING YES (SEE ATTACHED ORDER)
- 3 MOTIONED BY R R "Dick" HUBERT, SECONDED BY B E "Slim" SLEIGHTS
TO ADJOURN COURT THIS 12th DAY OF JUNE 1998 AT 9 20 AM
ALL VOTING YES



JOHN P THOMPSON, COUNTY JUDGE

ATTEST



BARBARA MIDDLETON, COUNTY CLERK



**ORDER RESTRICTING USE OF FIREWORKS
IN UNINCORPORATED AREAS OF POLK COUNTY**

On June 12, 1998, first having determined that the normal danger of fire in the unincorporated areas of Polk County is greatly enhanced by the extremely dry conditions now existing, and upon the recommendation of the Texas Forest Service that the Keetch-Buram Drought Index is 658, indicating extreme fire conditions The Commissioners Court adopted the following order effective immediately

I

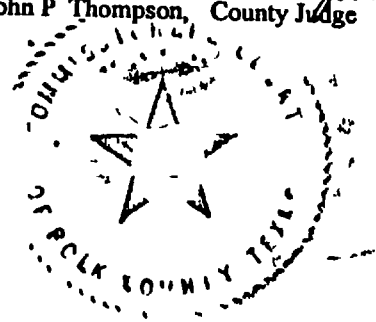
- A. No person may detonate, ignite, or in any way use certain aerial fireworks in any portion of the unincorporated area of Polk County, except for the location listed below
- B. A person commits an offense if the person knowingly or intentionally violates a prohibition established by this order. An offense under this order is a Class C Misdemeanor
- C. Fireworks means only those items classified under 49 CFR, PAR 173 100 (r) (2) (10-1-86 addition), as "skyrockets with sticks and other pyrotechnic devices that have fins or rudder for the purpose of achieving aerodynamic flight, including devices that would be considered a missile or a rocket"

II

- A. A person commits an offense if he or she intentionally, knowingly, or recklessly detonates, ignites, or in any way uses fireworks on a county road or in the right-of-way on a county road
- B. If the landowner's permission is obtained prior thereto, persons may detonate, ignite or use fireworks on private property in unincorporated areas of the county, as long as
 - 1. The person using the fireworks is not intoxicated as defined in Vernon's Ann. Civ St Art. 67011-1(a)(2),
 - 2. Reasonable precautions are taken concerning proximity to structures and flammable vegetation,
 - 3. Children are adequately supervised by adults,
 - 4. Water is readily available for extinguishing fires
- C. An offense under this Order is a Class C Misdemeanor punishable by a fine up to \$500 00
 - 1. As soon as possible, a duly commissioned peace officer shall be sent to the scene to investigate the nature of the violation
 - 2. If in the opinion of the officer at the scene and/or the Fire Chief, the goal of the order can be attained by informing the responsible party about the prohibitions established by this order, the officer may, at his/her discretion, notify the party about the provisions of this order and request compliance with it. In such instances, an entry of this notification shall be made into the dispatcher's log containing the time, date, and place of the warning, and the name of the person receiving the warning

**APPROVED THIS THE 12th DAY OF JUNE, 1998, BY A SPECIAL HELD MEETING OF THE
POLK COUNTY COMMISSIONERS COURT**

John P. Thompson
John P. Thompson, County Judge



Filed in the Office of the County Clerk

Barbara Middleton
Barbara Middleton, County Clerk

June 12, 1998
Date

Mallon

Drought Index

VOL

44 PAGE 469

KBDI Projection for July 4, 1998

| Station Location | Initial KBDI | Reference | Previous | Adjustment | | | New KBDI |
|--------------------|--------------|-----------|----------|------------|----------|--------|----------|
| | 5/23/98 | Table | KBDI | High Temp | Rainfall | Factor | |
| North Texas | | | | | | | |
| Abilene | 416 | 2 | 363 | 93 | | 96 | 459 |
| Corsicana | 424 | 3 | 473 | 94 | | 120 | 593 |
| DFW Airport | 424 | 3 | 316 | 94 | | 144 | 460 |
| Denton | 424 | 3 | 497 | 95 | | 120 | 617 |
| Longview | 432 | 4 | 577 | 93 | | 98 | 673 |
| Lufkin | 432 | 3 | 531 | 91 | | 144 | 675 |
| Mineral Wells | 424 | 3 | 329 | 93 | | 188 | 497 |
| Pans | 424 | 4 | 535 | 90 | | 96 | 631 |
| Terrell | 424 | 3 | 472 | 93 | | 120 | 592 |
| Texarkana | 432 | 4 | 467 | 87 | | 120 | 587 |
| Tyler | 432 | 4 | 453 | 92 | | 144 | 597 |
| Waco | 424 | 3 | 467 | 95 | | 144 | 611 |
| Wichita Falls | 416 | 2 | 391 | 94 | | 188 | 559 |
| West Texas | | | | | | | |
| Amarillo | 520 | 2 | 587 | 91 | | 48 | 635 |
| Childress | 416 | 2 | 514 | 102 | | 144 | 658 |
| Dalhart | 520 | 1 | 564 | 87 | | 48 | 612 |
| El Paso | 800 | 1 | 800 | 91 | | 0 | 800 |
| Lubbock | 520 | 1 | 559 | 95 | | 72 | 631 |
| Fort Stockton | 800 | 1 | 774 | 101 | | 25 | 799 |
| Marfa | 800 | 1 | 800 | 88 | | 0 | 800 |
| Midland | 520 | 1 | 587 | 98 | | 72 | 659 |
| San Angelo | 656 | 2 | 555 | 98 | | 98 | 651 |
| Wink | 800 | 1 | 800 | 97 | | 0 | 800 |
| South Texas | | | | | | | |
| Alice | 712 | 2 | 738 | 100 | | 24 | 762 |
| Austin | 512 | 3 | 528 | 97 | | 120 | 648 |
| Beaumont | 512 | 4 | 644 | 90 | | 72 | 716 |
| Brownsville | 696 | 2 | 716 | 93 | | 24 | 740 |
| Burnet | 656 | 3 | 573 | 95 | | 72 | 645 |
| College Station | 432 | 3 | 574 | 95 | | 72 | 646 |
| Conroe | 432 | 4 | 638 | 91 | | 72 | 710 |
| Corpus Christi | 512 | 3 | 606 | 92 | | 72 | 678 |
| Cotulla | 712 | 2 | 717 | 105 | | 24 | 741 |
| Del Rio | 656 | 1 | 579 | 101 | | 48 | 627 |
| Galveston | 512 | 4 | 500 | 88 | | 120 | 620 |
| Hondo | 512 | 2 | 610 | 102 | | 72 | 682 |
| Houston | 512 | 4 | 586 | 92 | | 120 | 706 |
| Huntsville | 432 | 4 | 654 | 94 | | 72 | 726 |
| Junction | 656 | 2 | 648 | 98 | | 72 | 720 |
| Kingsville | 712 | 2 | 735 | 98 | | 24 | 759 |
| Laredo | 712 | 2 | 750 | 104 | | 24 | 774 |
| McAllen | 656 | 2 | 728 | 97 | | 24 | 752 |
| New Braunfels | 512 | 3 | 599 | 96 | | 72 | 671 |
| Palacios | 512 | 4 | 625 | 90 | | 72 | 697 |
| Rockport | 512 | 3 | 593 | 90 | | 72 | 665 |
| San Antonio | 512 | 3 | 614 | 97 | | 72 | 686 |
| Victoria | 512 | 3 | 620 | 92 | | 72 | 692 |

TEXAS FOREST SERVICE
WEATHER OBSERVATION FORM

| Date | 6/11 | 6/12 | 6/13 | 6/14 | 6/15 | 6/16 | 6/17 |
|--------------------|-------|------|------|------|------|------|------|
| State of weather | 2 | | | | | | |
| Temperature | 95.5 | | | | | | |
| Humidity | 45 | | | | | | |
| 0-hour sticks | 3.7 | | | | | | |
| Wind direction | 180 | | | | | | |
| Wind speed | 18.6 | | | | | | |
| Human-caused risk | | | | | | | |
| Maximum temp | 97.0 | | | | | | |
| Minimum temp | 76.8 | | | | | | |
| Maximum humidity | 100 | | | | | | |
| Minimum humidity | 42 | | | | | | |
| Rain duration | 0 | | | | | | |
| Rain amount | 0 | | | | | | |
| Morning LAL | | | | | | | |
| Yesterday's LAL | | | | | | | |
| Verb. green factor | 6.5 | | | | | | |
| Body green factor | 131.0 | | | | | | |
| Season code | | | | | | | |
| WVI | 658.1 | | | | | | |
| IGNITION COMPONENT | 41.9 | | | | | | |
| SPREAD COMPONENT | 24.0 | | | | | | |
| BURNING INDEX | 47.9 | | | | | | |
| CLASS DAY | IV | | | | | | |

TEXAS FOREST SERVICE
WEATHER OBSERVATION FORM

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| Date | 6/4 | 6/5 | 6/6 | 6/7 | 6/8 | 6/9 | 6/10 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|
| State of weather | 2 | 2 | 1 | 0 | 2 | 2 | 1 |
| Temperature | 95.9 | 92.1 | 73.2 | 83.1 | 91.6 | 92.8 | 95.7 |
| Humidity | 48 | 72 | 100 | 88 | 91 | 77 | 62 |
| 0-hour sticks | 45 | 8.9 | 13.2 | 4.0 | 4.2 | 3.0 | 1.9 |
| Wind direction | 180 | 135 | 0 | 90 | 180 | 180 | 180 |
| Wind speed | 16.8 | 6.8 | 10.0 | 6.6 | 18.6 | 13.6 | 17.2 |
| Human-caused risk | | | | | | | |
| Max min temp | 98.4 | 97.7 | 95.5 | 83.5 | 92.7 | 95.7 | 97.2 |
| Minimum temp | 79.2 | 78.8 | 67.3 | 60.8 | 70.0 | 76.6 | 77.9 |
| Maximum humidity | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Minimum humidity | 42 | 45 | 51 | 86 | 78 | 71 | 45 |
| Rain duration | 0 | 1 | 4 | 0 | 0 | 0 | 0 |
| Rain amount | 0 | .02 | 1.32 | 0 | 0 | 0 | 0 |
| Morning LAL | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Yesterday's LAL | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Verb green factor | 7.0 | 10.5 | 19.0 | 11.1 | 13.8 | 10.2 | 7.5 |
| Codey green factor | 122.6 | 123.5 | 127.6 | 129.8 | 131.2 | 131.8 | 131.0 |
| Season code | | | | | | | |
| KDI | 724.1 | 728 | 623 | 627 | 634 | 642 | 650 |
| IGNITION COMPONENT | 36.5 | 10.6 | 0.6 | 9.2 | 9.6 | 17.0 | 34.6 |
| SPREAD COMPONENT | 21.3 | 6.3 | 1.7 | 5.9 | 18.8 | 14.1 | 20.9 |
| BURNING INDEX | 44.0 | 20.2 | 6.1 | 21.8 | 33.9 | 34.4 | 45.6 |
| CLASS DAY | IV | II | I | II | II | III | IV |

June 8, 1998

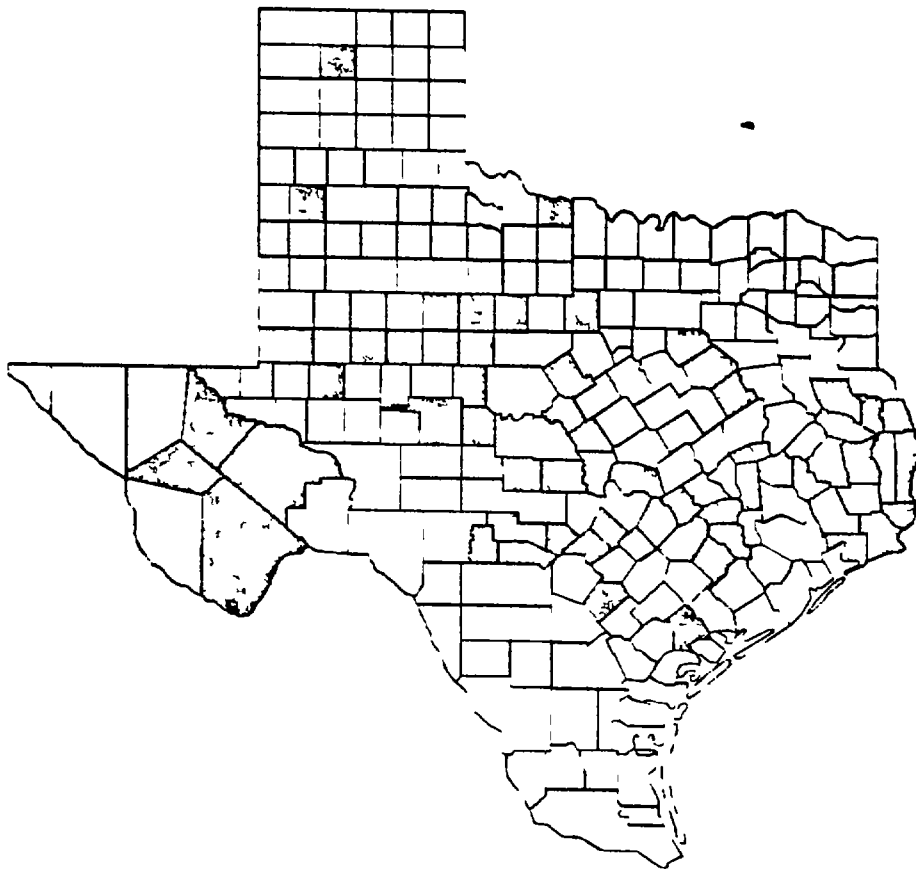
TEXAS FOREST SERVICE

The Texas A&M University System

Contact Mahlon Hammett 409-639-8100

Outdoor burning bans by county

County burning bans are established by County Judges and/or County Commissioners Courts. The Texas Forest Service is tracking the bans as a public service.



- Andrews
- Angelina
- Austin
- Bandera
- Bastrop
- Brewster
- Burnet
- Caldwell
- Chambers
- Colorado
- Comal
- Comanche
- Concho
- Ellis
- Fayette
- Fisher
- Freestone
- Grimes
- Hardin
- Haskell
- Hays
- Howard
- Jeff Davis
- Jefferson
- Jones
- Kendall
- Kerr
- Lamb
- Lampasas
- Lee
- Liberty
- Llano
- Madison
- Maven
- Midland
- Mills
- Mitchell
- Moore
- Nacogdoches
- Navarro
- Newton
- Nolan
- Orange
- Palo Pinto
- Pecos
- Polk
- Real
- Reeves
- Rummels
- San Augustine
- San Jacinto
- San Saba
- Shackelford
- Taylor
- Tom Green
- Tyler
- Victoria
- Walker
- Washington
- Wichita
- Williamson
- Wilson

Keetch - Byram Drought Index - KBDI

The Keetch-Byram Drought Index (KBDI) is basically a mathematical system for relating current and recent weather conditions to potential or expected fire behavior. This system was originally developed for the southeastern United States and is based primarily on recent rainfall patterns.

The KBDI is the most widely used drought index system by fire managers in the south. It is also one of the only drought index systems specifically developed to equate the effects of drought with potential fire activities.

The result of this system is a drought index number ranging from 0 to 800 that accurately describes the amount of moisture that is missing. A rating of zero defines the point where there is no moisture deficiency and 800 is the maximum drought possible.

These numbers correlate with potential fire behavior as follows:

- 0 - 200** Soil and fuel moisture are high. Most fuels will not readily ignite or burn. However, with sufficient sunlight and wind, cured grasses and some light surface fuels will burn in spots and patches.
- 200 - 400** Fires more readily burn and will carry across an area with no "gaps". Heavier fuels will still not readily ignite and burn. Also, expect smoldering and the resulting smoke to carry into and possibly through the night.
- 400 - 600** Fire intensity begins to significantly increase. Fires will readily burn in all directions exposing mineral soils in some locations. Larger fuels may burn or smolder for several days creating possible smoke and control problems.
- 600 - 800** Fires will burn to mineral soil. Stumps will burn to the end of underground roots and spotting will be a major problem. Fires will burn thorough the night and heavier fuels will actively burn and contribute to fire intensity.

Relative Terms

Available Fuels - That portion of the total fuel that actually burns

Burning Index - A numerical measurement of the difficulty of fire containment Based on spread component and fire intensity

Drought Index - A number representing the net effect of evaporation, transpiration, and precipitation in producing cumulative moisture depletion.

Fire Danger Rating - The process of evaluating fire danger that integrates the effects of selected factors into one or more qualitative or numerical indices to express current danger or protection needs

Fire Intensity - The rate of heat release from an entire fire at a specific point in time

Fuel Moisture - The amount of water in a fuel, expressed as a percent of the oven-dried weight of that fuel

Fuel Type - An identifiable association of fuel elements of distinctive species, form, size, arrangement, or other characteristics General fuel types are grass, brush, timber, and slash

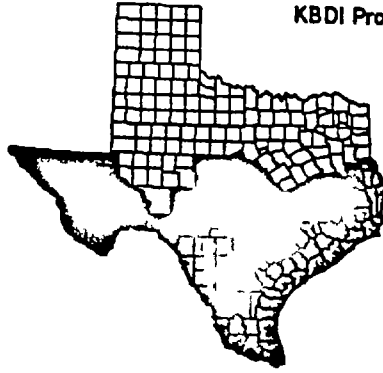
Ignition Component - A rating of the probability that a firebrand will cause a fire requiring suppression action. It is calculated using air temperature, shading, fuel moisture, fuel temperature, wind, slope, and fuel type

Man Caused Risk - A numerical rating of the potential occurrence of a person-caused fire requiring suppression action per million acres

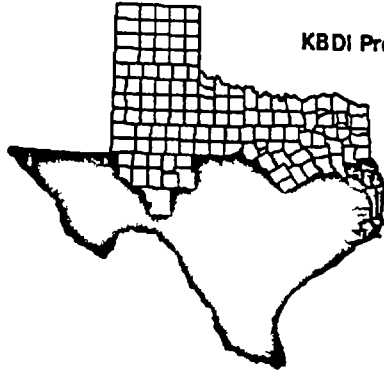
Rate of Spread - The relative activity of a fire in extending its horizontal dimensions It can be expressed as a rate of increase for the total perimeter of the fire, as a rate of forward-spread for the fire front, or as a rate of increase in area It is usually expressed as a rate in chains or acres per hour

Spread Component - A rating of the forward spread of a fire front expressed in feet per minute

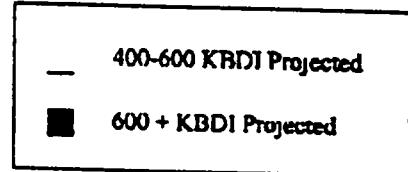
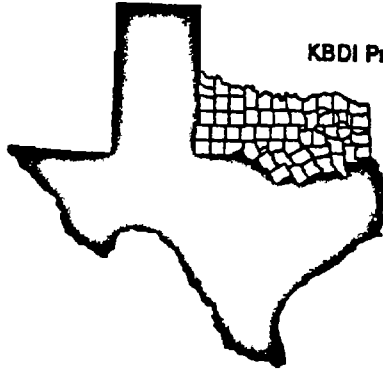
KBDI Projection for June 3, 1998



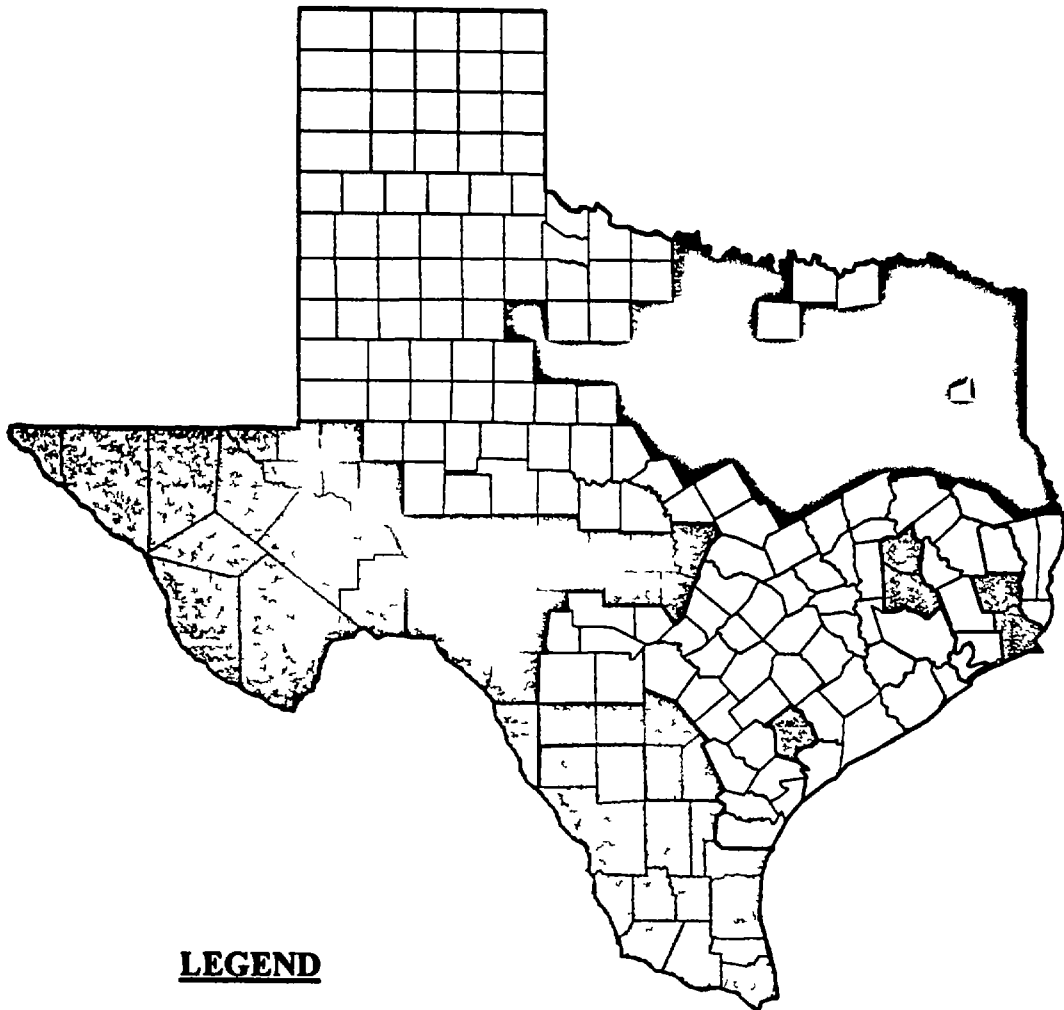
KBDI Projection for June 8, 1998





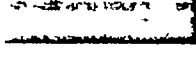




KBDI Projection for June 13, 1998



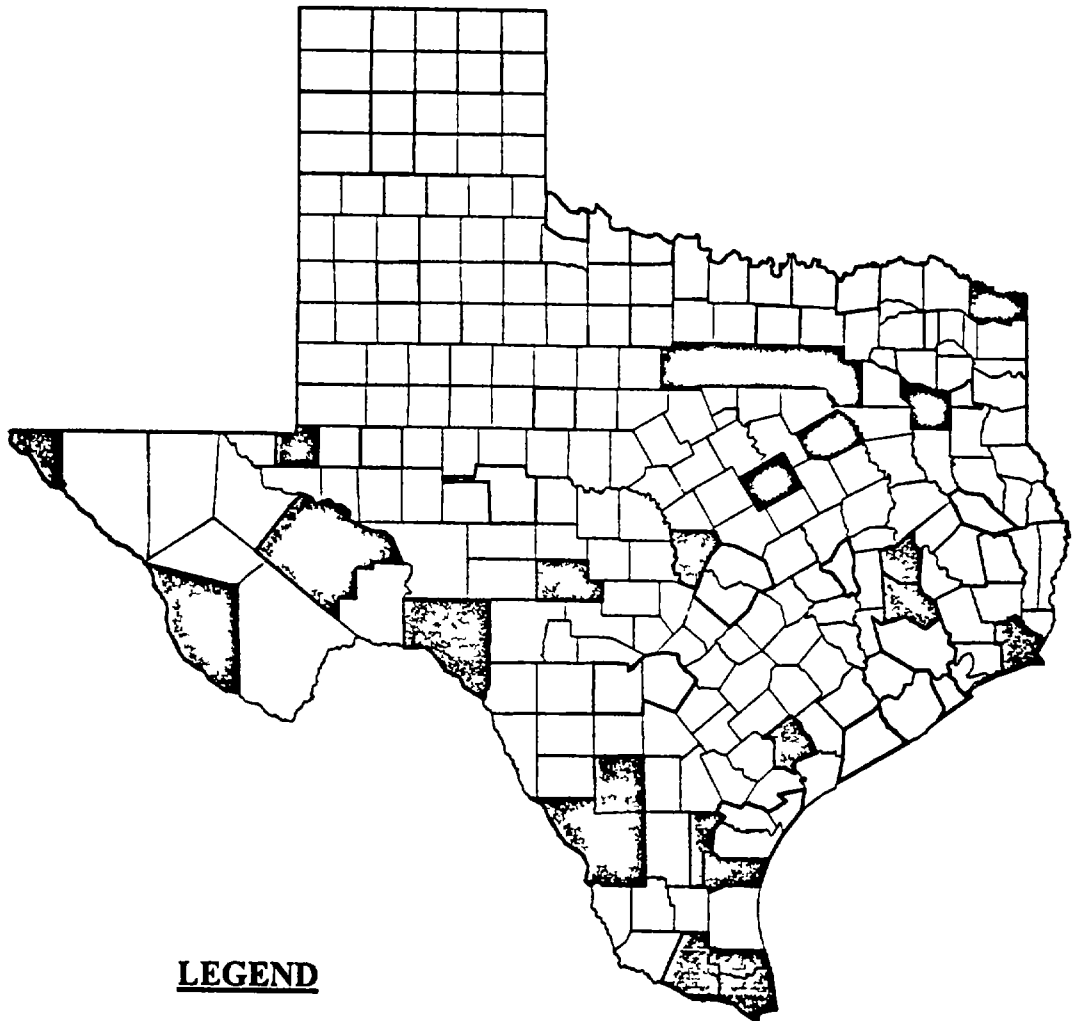
**Keetch-Byram Drought Index Summary
June 7, 1998**





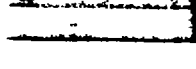




LEGEND

| <u>Map Color</u> | <u>KBDI</u> |
|---|--------------------|
|  | > 700 |
|  | > 600 |
|  | > 500 |
|  | > 400 |
|  | > 300 |
|  | > 200 |
|  | < 200 |

Keetch-Byram Drought Index Readings June 7, 1998



LEGEND

| <u>Map Color</u> | <u>KBDI</u> |
|---|-------------|
|  | > 700 |
|  | > 600 |
|  | > 500 |
|  | > 400 |
|  | > 300 |
|  | > 200 |
|  | < 200 |

III FIRE BEHAVIOR ANALYSIS

Fire Behavior

Fire behavior characterizations are generally site specific. Observed or calculated information about topography, fuels, weather and fuel moisture are needed to make the most accurate assessments. Assumptions for each of these factors are described below.

Topography

The Initial Fire Risk Assessment Area (IFRAA) is dominated by rolling hills with interspersed valleys. Elevations range from approximately 600 feet mean sea level (msl) to 2400 feet msl. For purposes of fire behavior calculations we have assumed a 20 percent slope. Several rivers including the Colorado, Llano Pedernales, Guadalupe, Frio, Sabinal, Blanco, Cibola, and Medina bisect this area. All aspects are represented within this area.

Fuels

Fuel models utilized in making these predictions are as described by Hal E. Anderson in the publication "Aids to Determining Fuel Models for Estimating Fire Behavior" (General Technical Report INT-122, April 1982). Calculations were made utilizing a combination of Fuel Model 6 (brush) and Fuel Model 3 (grass). Fuel Model 6 may over predict at winds less than 20 miles per hour but provides the best fit at this time.

Fuel Moisture

In order to best characterize the fuel moisture conditions throughout the IFRAA it was necessary to average fuel moistures from various fire weather stations. Moisture estimates were made for 1 hour (< 25" diameter), 10 hour (25" diameter) and 100 hour (1.3" diameter) time lag fuels. The Balcones automated weather station was utilized as a verification site for these calculations.

Keetch-Byram Drought Index

The Keetch-Byram Drought Index (KBDI) is a soil/duff drought index that ranges from 0 (no drought) to 300 (extreme drought) and is based on a soil capacity of 8 inches of water. Factors in the index are maximum daily temperature, daily precipitation, antecedent precipitation, and annual precipitation.

KBDI = 0 - 400

Soil moisture and large class fuel moistures are high and do not contribute much to fire intensity. Typical of late spring dormant or early growing season. Lower litter and duff layers are drying and beginning to contribute to fire intensity.

KBDI = 100 - 500

Soil moisture and large class fuel moistures are moderate and contribute to fire intensity and

KBDI = 600 - 800

Often associated with more severe drought with increased wildfire occurrence. Intense deep burning fires with downwind spotting can be expected. Live fuels can also be expected to burn actively at these levels.

Fire Behavior

Calculations for rate-of spread (ROS in chains per hour and feet per minute), flame length (FL in feet), probability of ignition (PI in percent) and spotting distance (SPOT in miles) were made using BEHAVE version 4.3 Direct Spot and Ignite modules. Calculations are made as a worst case scenario and are intended to serve as an indication of difficulty of control for suppression forces and to reinforce safety calculations (10 STANDARD FIRE ORDERS and 18 WATCH OPERATIONS).

Predictions

K BDI 0-100

Unplanned ignitions should be at or near normal. The current level of fire protection will be able to respond to and suppress fires that occur within these parameters. General knowledge of fire behavior will be adequate to assess the situation and develop attack plans. Most fires should be able to be controlled on initial attack. Minimal mop up will be required.

ROS 20-100 chains per hour 22-110 feet per minute
 FL 3-15 feet
 PI <40%
 SPOT Short Range (should not be a factor)

K BDI 400-600

Unplanned ignitions and the difficulty of control will increase through this range. Ignitions that occur at the upper limits of K BDI will quickly exceed local capabilities and may require extended attack. Local suppression forces will be stretched thin and outside resources may be required. As the K BDI approaches the upper limits most ignitions will require indirect attack. Consideration should be given to establishing a "Fire Behavior Service Center" (FBSS). Texas Forest Service personnel that have knowledge of local fuels, weather and topography should staff this center. This center could also serve as a collection point for fire weather information and dissemination. As the K BDI approaches the upper limits it might be advisable to have a Fire Behavior Analyst (FBAN) stationed at the center. Heavier fuels will become involved, increasing intensities and fires will burn deeper into the duff layer. Both of these factors increase the mop up requirements and thus the length of time fire crews will be required to remain on the scene.

ROS 50-150 chains per hour 33-165 feet per minute
 FL 5-20 feet
 PI 40-60%
 SPOT Medium Range (4 to 6 miles with 20 foot winds in excess of 20 mph)

K BDI 600-800

Nearly all unplanned ignitions will require an extended attack. Erratic fire behavior including long range spotting will occur. Local suppression forces will be exhausted and the number of ignitions may exceed their ability to provide adequate initial attack. Nearly all ignitions will require indirect attack. In addition to the FBAN at the FBSS it may be necessary to assign analysts to individual incidents. It may also be appropriate to position a Fire Weather Meteorologist at the FBSS. Aerial fuels will be cured and will easily become involved in the fire spread. For long range spotting, the opportunity for reburn will increase as the stage of the fire pre-heats the aerial fuels. This condition is especially critical in the Texas Hill Country. More extensive mop up will be required to minimize the possibility of a rekindle. Conditions will be such that most fuels will be consumed leaving bare mineral soil.

ROS 50-200 chains per hour 39-220 feet per minute
 FL 7-25 feet
 PI >60%
 SPOT Long Range (6 to >10 miles)

Fire Behavior Conclusion

The K BDI serves as a good indicator of large fuel conditions. As the K BDI increases these larger fuel classes add to the fire intensity, difficulty of control, and mop-up considerations. These heavier fuels may be minimally affected by a rain event. Fuel moistures in the fine fuels (1-hour and 10-hour time lag) will vary daily with environmental conditions (wind, temperature, relative humidity, and solar radiation). Extreme fire behavior can be experienced at any point above 400 K BDI but will become more critical at the upper ranges. When all classes of fuels become critically dry, firefighter and public safety considerations become paramount. Fuel moistures will fall well below that of kiln-dried lumber. Daily fire weather information and fire behavior predictions will be required to help fire managers and suppression forces plan their attack. Information dissemination to agency management staffs, the public, and fire suppression forces must be accurate and delivered in a timely manner. This includes fuel and burning conditions, Fire Weather Watches and Warnings, fire occurrence, fire prevention, and fire suppression activities.

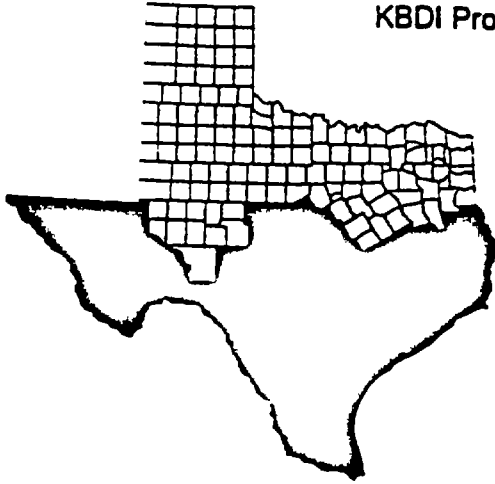
IV PREDICTED FIRE RISK

The following maps showing the projected K BDI indices were calculated from existing data on May 28, 1998. These calculations were based on the presumption that no significant rainfall would occur in the interim period. If significant rainfall does occur, these predictions will change.

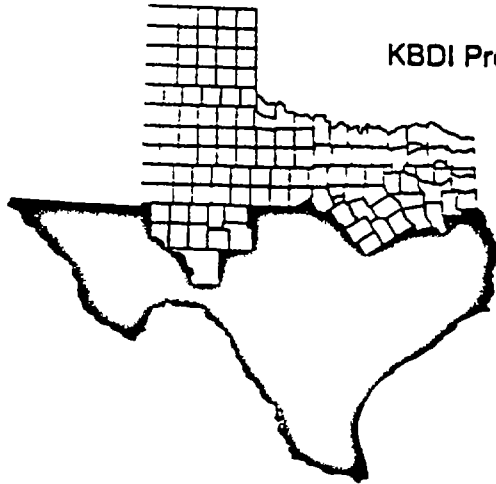
June 3, 1998 - The average range of K BDI is between 400-600 for north and west Texas. The exception to this is west Texas where areas around Wink and El Paso will be at 800. South Texas indices will range from 515 (College Station) to 732 (Laredo).

June 13, 1998 - Although northeast Texas is displayed in the range of 400-600, the index is closer to 600 for most of the locations reporting from this area.

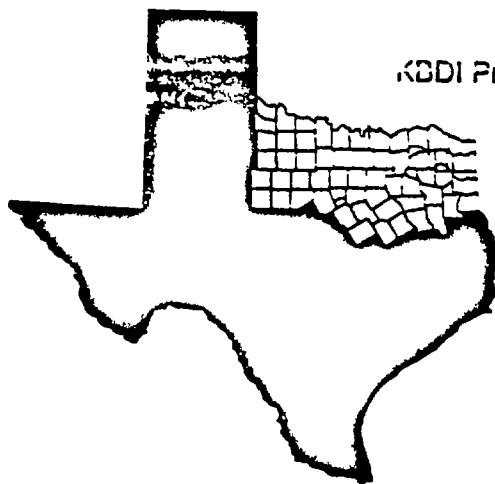
KBDI Projection for June 3, 1998



KBDI Projection for June 8, 1998



KBDI Projection for June 13, 1998



--- 400-600 KBDI Projected

■ 600 - KBDI Projected

V PROPOSED ACTION

Fire activity that exceeds local government's initial response capabilities, along with K BDI categories will be factors to consider when placing additional resource requests

K-BDI 0 - 400 (Low to Moderate Fire Danger)

At these fuel moisture levels the current level of fire protection should be able to function using existing staffing and equipment. Fire intensity and control difficulty would be within the norms expected for the area and time of year. Local resources while they would be stretched more as the K BDI approaches the 400 level should be adequate for the effort needed to suppress most of the wildland fires that would occur.

Most of the wildland fires would be small and suppression efforts would be of short enough duration that existing resources would not be over loaded. Current mutual aid agreements appear to be sufficient to fill in behind fire resources as they are dispatched to ongoing incidents.

Considerations of firefighter and civilian safety would be those normally taken by the fire suppression agencies and would prove adequate for the task at hand.

All these activities could adequately be addressed by the existing fire suppression organization. However as the K BDI increases and approaches the 400 mark fire suppression personnel must be aware of additional safety requirements and potential containment/control problems. Standard fire fighting procedures may not be the norm as the K BDI approaches this level.

K BDI 400 - 600 (High Fire Danger) & K BDI 600+ (Extreme Fire Danger)

With K BDI at these levels and/or fire activity that exceeds the area's initial response capabilities the following items may be considered or acted upon:

It is important to remember that there is a time lag between when an order is placed for state resources and when the ordered resources arrive on the incident. This must be factored in when making plans to increase the resources available for use. At the K BDI 600+ level the Texas Forest Service, the Division of Emergency Management and other appropriate state agencies should be involved in the planning process.

Consider the need for daily or more frequent fire weather forecasts. These can be made available through the Texas Interagency Coordination Center (TICC), the National Weather Service or through other sources. This information should be distributed to all agencies possibly involved in the wildland fire suppression efforts.

Aerial detection for the fire prone area should be considered. These aerial resources can be used as needed for initial size up of incidents and reconnaissance of ongoing fires.

Staging Areas

As K BDI increases through these two levels and/or fire activity exceeds the area's initial response capabilities it is recommended to delineate and establish Staging Areas to accommodate suppression resources. These areas should be established and operated to facilitate the expedient dispatch of resources to ongoing incidents. The number of these is not as important as the location. However it is not necessary to saturate the entire area with Staging Areas but only locate those where the resources can be best accommodated and where they can be most readily dispatched. In addition the resources in these areas must be supported while they await dispatch. Night operation of these facilities should be contemplated and arrangements made for this eventuality. These areas need to be of sufficient size to safely accommodate the anticipated resources using the area.