Identification_Information:
　Citation:
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　　　Originator: U.S. Geological Survey
　　　Publication_Date: 20060901
　　　Title: Roost A, Roost B and Queen Mary Fires of Whiskeytown National Recreation Area - 2005
　　　Geospatial_Data_Presentation_Form:
　　　　Raster digital data.
　　　　Vector data are also available as ArcView Shape Files.
　　　Publication_Information:
　　　　Publication_Place: Sioux Falls, South Dakota USA
　　　　Publisher: U.S. Geological Survey
　　　Online_Linkage: http://edc.usgs.gov
　Description:
　　Abstract:
　　　The U.S. Geological Survey (USGS) has entered into a cooperative
　　　agreement with the National Park Service (NPS) to deliver satellite
　　　imagery and derivitive products centered on major fires that
　　　impact national parks and other federal lands. This data set was
　　　compiled at the request of a federal land management agency and is
　　　part of a suite of products generated for a specific fire.
　　　See the National Burn Severity Mapping web site at:
　　　http://edc2.usgs.gov/fsp/severity/fire_main.asp
　　Purpose:
　　　The purpose of this project is to develop a robust mapping
　　　methodology and consistent data products that allow federal land
　　　managers and fire ecologists to evaluate and compare burn severity
　　　within individual fires and between fires across various
　　　ecosystems. These products will help land managers to more
　　　effectively plan, implement and monitor fire recovery activities.
　　Supplemental_Information:
　　　Fire Names: Roost A, Roost B, Queen Mary
　　　Agency: National Park Service
　　　Land Management Unit: Whiskeytown National Recreation Area
　　　Dates of Fires: 06/01/2005, 11/18/2005, 10/19/2005
　　　Type of assessment: Extended
　　　Acres within Fire Perimeters: 280, 240, 750
　　　Landsat Path and Row: 45/32
　　　Pre-Fire Landsat Date/Scene ID:
　　　Landsat 5; Aug. 4, 2004/LT5045032000421710
　　　Post-Fire Landsat Date/Scene ID:
　　　Landsat 5; Aug. 10, 2006/LT5045032000622210
　　　Output Dataset Projection: UTM
　　　UTM Zone: 10
　　　Datum Name: NAD27
　　　Spheroid Name: Clarke 1866
　　　Image subset Corner Coordinate (center of upper left pixel, projection meters)
　　　ULX: 514260   LRX: 549810
　　　ULY: 4516980   LRY: 4482360
　　　Image subset size:
　　　#Rows: 1155

#Columns: 1186
Pixel size: 30 meters
Bounding Box:
North Lat: 40 48 16 N
South Lat: 40 29 36 N
East Long: 122 24 42 W
West Long: 122 49 54 W
Latitude and Longitude within Fire Perimeter:
Roost A   Lat: 40 36 06 N   Lon: 122 34 22 W
Roost B   Lat: 40 36 36 N   Lon: 122 34 09 W
Queen_Mary Lat: 40 35 13 N   Lon: 122 41 33 W

Fire Perimeters: Provided by Park personnel.

For further information on NLAPS and Landsat TM data, please refer to the metadata
documentation found on the USGS Clearinghouse website at:
http://www.fgdc.gov/clearinghouse/clearinghouse.html

Product List:

qmro05b_pretm.tif
2004 Post-Fire Landsat data subset (bands 1-5,7 Geo-TIFF format)

qmro05b_postm.tif
2006 Post-Fire Landsat data subset (bands 1-5,7 Geo-TIFF format)

qmro05b_dnbr
Differenced Normalized Burn Ratio (DNBR) subset (16 bit ArcInfo GRID)

qmro05b_pi
Fire Perimeters (shape file)

qmro05b_hist.xls
DNBR pixel count within the fire perimeters (excel file)

d453208040806
Full Scene DNBR (16 bit ArcInfo GRID)

Time_Period_of_Content:
 Time_Period_Information:
  Multiple_Dates/Times:
   Single_Date/Time:
    Calendar_Date: 20040804 (pre-fire image)
   Single_Date/Time:
    Calendar_Date: 20050601 (date Roost A fire began)
   Single_Date/Time:
    Calendar_Date: 20051118 (date Roost B fire began)
   Single_Date/Time:
    Calendar_Date: 20051019 (date Queen Mary fire began)
   Single_Date/Time:
    Calendar_Date: 20060810 (post-fire image)
 Currentness_Reference: ground condition

Status:
  Progress: Complete
  Maintenance_and_Update_Frequency: as needed
Spatial_Domain:
  Bounding_Coordinates:
    West_Bounding_Coordinate: -122.49.54
    East_Bounding_Coordinate: -122.24.42
    North_Bounding_Coordinate: 40.48.16
    South_Bounding_Coordinate: 40.29.36

  Keywords:
   Theme:
    Theme_Keyword_Thesaurus: none
    Theme_Keyword: burn mapping
    Theme_Keyword: imagery
    Theme_Keyword: fire
    Theme_Keyword: Landsat
    Theme_Keyword: National Park Service
   Place:
    Place_Keyword_Thesaurus: none
    Place_Keyword: Whiskeytown National Recreation Area
    Place_Keyword: Roost A
    Place_Keyword: Roost B
    Place_Keyword: Queen Mary
    Place_Keyword: California
  Access_Constraints: FTP data sets are available to any user.
  Use_Constraints: There are no restrictions on use, except for reasonable and proper acknowledgement of information sources.
  Point_of_Contact:
   Contact_Information:
    +001 605-594-6151 or (USA) 800-252-4547
    Contact_Organization_Primary:
      Contact_Organization: U.S. Geological Survey
    Contact_Position: CSR
    Contact_Voice_Telephone: +001 605-594-6151
    Contact_Address:
      Address_Type: physical and mailing address
      Address: 47914 252nd Street
      City: Sioux Falls
      State_or_Province: SD
      Postal_Code: 57198-0001
      Country: USA
    Contact_TDD/TTY_Telephone: +001 605-594-6933
    Contact_Voice_Telephone: +001 605-594-6151
    Contact_Facsimile_Telephone: +001 605-594-6589
    Contact_Electronic_Mail_Address: fsedc@usgs.gov
    Hours_of_Service: 0800 - 1600 CT, M-F, -6 h GMT
    Contact_Instructions: http://edc2.usgs.gov/fsp/severity/contact_us.asp

  Data_Set_Credit: USGS and NASA
  Native_Data_Set_Environment: Oracle, ERDAS Imagine, & ArcInfo
 Data_Quality_Information:
  Attribute_Accuracy:

Attribute_Accuracy_Report:
   Three on-board calibrators (two solar, one internal) provide an absolute
   accuracy of 5 percent, excluding band 6.
Logical_Consistency_Report:
  These Landsat data are collected from a nominal altitude of 705 kilometers
  in a near-polar, near-circular, sun-synchronous orbit at an inclination of
  98.2 degrees, imaging the same 183-km swath of Earth's surface every 16 days.
  The pixels representing the bands for the image are in the data set only once.
Completeness_Report: Fire perimeter was automated, (seed value 425, distance 325) with manual edits.

Positional_Accuracy:
  Horizontal_Positional_Accuracy:
   Horizontal_Positional_Accuracy_Report:
    Energy reflected from Earth's surface passes through a whisk-broom scanning
    system and all-reflective optics before being collected by the solid-state
    detectors at the focal plane.
Lineage:
  Process_Step:
   Process_Description:
    These data products are derived from Landsat Thematic Mapper data.
    A pre-fire scene and a post-fire scene are analyzed to create a
    Differenced Normalized Burn Ratio (DNBR) image. The DNBR image portrays
    the variations of burn severity within the fire.

    The Landsat images are terrain corrected and geometrically rectified
    to an Albers Conical Equal Area map projection using the National
    Landsat Archive Production System (NLAPS). The images are further
    processed to convert bands 1-5 and 7 to at-satellite-reflectance.
    The Normalized Burn Ratio (NBR) is computed for each date of imagery
    using the following formula:
    (Band 4 - Band 7) / (Band 4 + Band 7) = NBR

    The differenced NBR is computed by subtracting the post-fire NBR from
    the pre-fire NBR:
    PreNBR - PostNBR = DNBR

    Higher DNBR values are correlated with more severe burns. The DNBR
    image is evaluated to determine the threshold value between burned and
    unburned areas. The perimeter of the fire is delineated using the DNBR
    image. The DNBR image, the pre-fire and post-fire TM images, and a
    fire perimeter vector file are provided in digital format in the map
    projection used by the National Park Service.
   Source_Used_Citation_Abbreviation: TM
   Process_Date: 20060901
   Source_Produced_Citation_Abbreviation: DNBR
  Cloud_Cover: 10
Distribution_Information:
 Distributor:
  Contact_Information:
   Contact_Organization_Primary:
    Contact_Organization: U.S. Geological Survey
   Contact_Position:

    Principal Scientist
    Land Cover Applications
   Contact_Address:
    Address_Type: mailing and physical address
    Address:
     47914 252nd Street
     USGS EROS
    City: Sioux Falls
    State_or_Province: SD
    Postal_Code: 57198-0001
    Country: USA

    Contact_Voice_Telephone: +001 605-594-6151
    Contact_TDD/TTY_Telephone: +001 605 594-6933
    Contact_Facsimile_Telephone: +001 605 594-6589
    Contact_Electronic_Mail_Address: fsedc@usgs.gov
    Hours_of_Service: 0800 - 1600 CT, M-F, -6 h GMT
    Contact_Instructions: http://edc2.usgs.gov/fsp/severity/contact_us.asp
 Distribution_Liability:
  No warranty expressed or implied is made by the USGS regarding the use
  of the data, nor does the act of distribution constitute any such warranty.
 Standard_Order_Process:
  Digital_Form:
   Digital_Transfer_Information:
    Format_Name: Geo-TIFF
    Format_Version_Number: 1
   Digital_Transfer_Option:
    Online_Option:
     Computer_Contact_Information:
      Network_Address:
       Network_Resource_Name: http://edc2.usgs.gov/fsp/severity/download_data.asp
  Digital_Form:
   Digital_Transfer_Information:
    Format_Name: DNBR ArcInfo GRID

    Format_Version_Number: 1
   Digital_Transfer_Option:
    Online_Option:
     Computer_Contact_Information:
      Network_Address:
       Network_Resource_Name: http://edc2.usgs.gov/fsp/severity/download_data.asp
  Digital_Form:
   Digital_Transfer_Information:
    Format_Name: shape file
    Format_Version_Number: 1
   Digital_Transfer_Option:
    Online_Option:
     Computer_Contact_Information:
      Network_Address:
       Network_Resource_Name: http://edc2.usgs.gov/fsp/severity/download_data.asp
  Fees: No charge
  Ordering_Instructions: http://edc2.usgs.gov/fsp/severity/help.asp#ordering

     Turnaround: same day
 Metadata_Reference_Information:
   Metadata_Date: 20060911
   Metadata_Contact:
    Contact_Information:
      Contact_Organization_Primary:
       Contact_Organization:
         USGS EROS
         Science & Applications Branch
      Contact_Position:
       Principal Scientist
       Land Cover Applications
      Contact_Address:
       Address_Type: mailing and physical address
       Address:
        47914 252nd Street
        USGS EROS
       City: Sioux Falls
       State_or_Province: SD
       Postal_Code: 57198-0001
       Country: USA
      Contact_Voice_Telephone: +001 605-594-6151
      Contact_TDD/TTY_Telephone: +001 605-594-6933
      Contact_Facsimile_Telephone: +001 605-594-6589
      Contact_Electronic_Mail_Address: fsedc@usgs.gov
      Hours_of_Service: 0800 - 1600 CT, M-F, -6 h GMT
      Contact_Instructions: http://edc2.usgs.gov/fsp/severity/contact_us.asp
  Metadata_Standard_Name: Content Standard for Digital Geospatial Metadata
  Metadata_Standard_Version: FGDC-STD-001-1998
  Metadata_Access_Constraints: none
  Metadata_Use_Constraints: none