WARSC LS7 Metadata Template v1.0
Ver 1.0 - 4/16/02

Identification_Information:
  Citation:
    Citation_Information:
      Originator: Washington State Remote Sensing Consortium (WARSC) - Olympia, WA
      Publication_Date: 20020131
      Title: WARSC Landsat 7 - TCL720000927
      Geospatial_Data_Presentation_Form: remote-sensing image
      Online_Linkage: n/a
  Description:
    Abstract: This geometrically terrain-corrected LandSat7 image data set is made available through the Washington State Remote Sensing Consortium (WARSC). The data provided includes bands 1, 2, 3, 4, 5, 6, 7, 8 and 9. See Process Description for additional details.
    Purpose: This specific dataset is one of seventeen scenes purchased and terrain corrected to create a statewide coverage of LandSat7 imagery from the year 2000 inventory.

    Supplemental_Information:
      The Landsat program provides a continuing stream of remote sensing data for monitoring and managing the Earth's resources. The launch of the Landsat-7 satellite on April 15, 1999, marks the addition of the latest satellite to the Landsat satellite series. Landsats 1, 2, and 3 carried the multispectral scanner (MSS) sensor and experimental return beam vidicon cameras. The Landsat-4 satellite carried the MSS and thematic mapper (TM) sensors as does the still currently flying Landsat-5 satellite. The sixth satellite in the Landsat series was unsuccessfully launched and did not achieve orbit. The Landsat-7 satellite carries the enhanced thematic mapper plus (ETM+) sensor. The launch of the Landsat-7 satellite is part of an ongoing mission to provide quality remote sensing data in support of research and applications activities.

  Time_Period_of_Content:
    Time_Period_Information:
      Single_Date/Time:
        Calendar_Date: 20000927
        Time_of_Day: 18:33:47 (hh:mm:ss)
     Currentness_Reference: ground condition
  Status:
    Progress: Complete
    Maintenance_and_Update_Frequency: None Planned
  Spatial_Domain:
    Bounding_Coordinates:
      West_Bounding_Coordinate: -120.31
      East_Bounding_Coordinate: -117.25
      North_Bounding_Coordinate: 48.43
      South_Bounding_Coordinate: 46.46
  Keywords:
    Theme:
      Theme_Keyword: Landsat 7
      Theme_Keyword: Remote Sensing

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      Theme_Keyword: Satellite Images
      Theme_Keyword: Imagery
      Theme_Keyword: Infrared Imagery
      Theme_Keyword: Thematic Mapper+
      Theme_Keyword: TM
      Theme_Keyword: Radiance
      Theme_Keyword: Visible Imagery
      Theme_Keyword: Raster
      Theme_Keyword: ETM+
      Theme_Keyword: Reflectance
      Theme_Keyword: Thermal
      Theme_Keyword: Panchromatic

    Place:
      Place_Keyword: USA
      Place_Keyword: WA
      Place_Keyword: Washington State
      Place_Keyword: Lincoln County
      Place_Keyword: Adams County
      Place_Keyword: Grant County
      Place_Keyword: Douglas County
      Place_Keyword: Swanson Lakes Wildlife Area
      Place_Keyword: Spokane Indian Reservation
      Place_Keyword: Banks Lake
      Place_Keyword: Potholes Reservoir
      Place_Keyword: Sagebrush Flat
      Place_Keyword: Columbia National Wildlife Refuge
      Place_Keyword: Moses Lake
      Place_Keyword: Coulee Dam

  Access_Constraints: No redistribution outside the Washington State Remote
Sensing Consortium without Consortium written permission.
  Point_of_Contact:
    Contact_Information:
      Contact_Person_Primary:
        Contact_Person: Jeff Holm
        Contact_Organization: Washington Department of Information Services
      Contact_Position:
        Washington State Geographic Information Council
        Coordinator
      Contact_Address:
        Address_Type: mailing and physical address
        Address: 1110 SE Jefferson Street
        Address: P.O. Box 42445
        City: Olympia
        State_or_Province: WA
        Postal_Code: 98504-2445
        Country: USA
      Contact_Voice_Telephone: (360) 902.3447
  Data_Set_Credit:
    Washington State Remote Sensing Consortium and EROS Data Center
  Security_Information:
    Security_Classification: Unclassified
  Browse_Graphic:
    Browse_Graphic_File_Name:
http://www.wa.gov/gic/tm7/acq01_images/4427_092700.jpg
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Data_Quality_Information:
  Attribute Accuracy:
    Attribute Accuracy Report: Nominal ground sample distances or pixel sizes include 30 meters each for the six visible, near-infrared, and shortwave infrared bands, 60 meters for the thermal infrared band, and 15 meters for the panchromatic band.
  Logical Consistency Report: Landsat-7 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 the Earth's surface every 16 days.
  Completeness Report: The orbital pattern equates to a 233-orbit cycle with a swath sidelap that varies from approximately 7 percent at the Equator to nearly 84 percent at 81 degrees north or south latitude. The Landsat scenes are mapped to a global notation system called the Worldwide Reference System (WRS), annotating the nominal scene center of Landsat imagery using Path and Row designators.

  Positional Accuracy:
    Horizontal Positional Accuracy:
      Horizontal Positional Accuracy Report:
Number of EROS Geometric QA: Control Points 13; RMS Along Track 8.33; RMS Across Track 5.24; RMS Combined 9.86 - See summary report (often referred to as EROS Work Order Report) in Documentation Directory on CD - See WARSC QA/QC report in CD Documentation Directory

  Lineage:
    Source_Information:
      Source_Citation:
        Citation_Information:
          Originator: USGS/EROS Data Center in Sioux Falls, SD
          Publication_Date: 20000927
          Publication_Time: 18:33:43
          Title: EROS Data Center Landsat 7 Imagery 7044027000027150
      Source_Scale_Denominator: Resolution 30 m
      Type_of_Source_Media: CD-ROM

    Source_Information:
      Source_Citation:
        Citation_Information:
          Originator: Washington State Department of Natural Resources - Olympia, WA
          Publication_Date: 20010206
          Title: Washington State 30 meter DEM (resampled from USGS 10m DEM)
      Source_Scale_Denominator: Resolution 30 m

    Process_Step:
      Process_Description: This geometrically terrain corrected data product was created using EROS Data Center's National Landsat Archives Program L1T processing. Terrain correction utilized WA Department of Natural Resources 30 meter DEM (resampled from USGS 10 meter DEM). Metadata about these 10 meter DEMs can be accessed through <http://edcwww.cr.usgs.gov/webglis/index.html>. Resampling method was cubic convolution. EROS delivered data in NDF/BSQ format, WARSC reformatted for delivery in GEOTIFF. For details regarding the general NLAPS process Please see <http://edcwww.cr.usgs.gov/glis/hyper/guide/nlaps.html> .For specifics about this data product please see summary of processing history report (also referred to as Work Order Report) or full Processing History Report in Documentation Directory on CD

```
      Process_Date: 20011004
      Process_Time: 14:36:24
      Process_Contact:
        Contact_Information:
          Contact_Person_Primary:
            Contact_Person: EROS Data Center Customer Service
            Contact_Organization: EROS Data Center
          Contact_Position:
```
Contact_Voice_Telephone: 605-594-6151

Contact_Electronic_Mail_Address: custserv@usgs.gov

```
Cloud_Cover: <= 10

Spatial_Data_Organization_Information:
  Direct_Spatial_Reference_Method: Raster
  Raster_Object_Information:
    Raster_Object_Type: Pixel
    Row_Count: 7152
    Column_Count: 7521
    Vertical_Count: 9

Spatial_Reference_Information:
  Horizontal_Coordinate_System_Definition:
    Grid_Coordinate_System:
      Grid_Coordinate_System_Name: State Plane Coordinate System 1983
        State_Plane_Coordinate_System:
          SPCS_Zone_Identifier: 4602
    Planar_Coordinate_Information:
      Planar_Coordinate_Encoding_Method:  row and column
      Coordinate_Representation:
        Abscissa_Resolution: 30
        Ordinate_Resolution: 30
      Planar_Distance_Units: meters

  Geodetic_Model:
    Horizontal_Datum_Name: North American Datum of 1983
      Ellipsoid_Name: NAD83




Distribution_Information:
  Distributor:
    Contact_Information:
      Contact_Person_Primary:
        Contact_Person: Jeff Holm
        Contact_Organization: Washington Department of Information Services
      Contact_Position:
        Washington State Geographic Information Council
        Coordinator
      Contact_Address:
        Address_Type: mailing and physical address
        Address: 1110 SE Jefferson Street
        Address: P.O. Box 42445
```

```
        City: Olympia
        State_or_Province: WA
        Postal_Code: 98504-2445
        Country: USA
      Contact_Voice_Telephone: 360.902.3447
 Distribution_Liability: Although these data have been processed successfully on
a computer system at the USGS, no warranty expressed or implied is made by the
USGS or WARSC regarding the use of the data on any other system, nor does the
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replacement CD when the physical medium is delivered in damaged condition.
Requests for adjustment of credit must be made within 30 days from the date of
this shipment from the order site.

  Standard_Order_Process:
    Digital_Form:
      Digital_Transfer_Information:
        Transfer_Size: 260 (approx. in megabytes)



Metadata_Reference_Information:
  Metadata_Date: 20020111
  Metadata_Contact:
    Contact_Information:
      Contact_Organization_Primary:
        Contact_Organization:
          Washington State Remote Sensing Consortium
        Contact_Person: Jeff Holm
      Contact_Position:
      Contact_Address:
      Contact_Voice_Telephone: 360.902.3447
  Metadata_Standard_Name:
    FGDC Content Standards for Digital Geospatial
    Metadata
  Metadata_Standard_Version: FGDC-STD-001-1998
  Metadata_Time_Convention:  local time
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