

Release Notes

Release Date: 7/1/2014

Identifying Owner/Ownership Types

Washington DNR (Uplands)

ArcMap SQL Filter

```
DataProviderID = 640 AND PrimaryDataSource = 1 AND PolyID IN (SELECT PolyID FROM PublicOwnership WHERE PublicOwnership.GeneralDescription LIKE '%<PARCEL_TYPE>UPLAND</PARCEL_TYPE>%' AND PolyID = PublicOwnership.PolyID)
```

Notes

Riparian Open Space, Forest Riparian Easements and Future Acquisitions are mapped to generic county polygons and can be identified as below:

Riparian Open Space: DataProviderID = 640 AND PolyID IN (SELECT PolyID FROM PublicOwnership WHERE OwnershipType = 2 AND PolyID = PublicOwnership.PolyID)

Forest Riparian Easement: DataProviderID = 640 AND PolyID IN (SELECT PolyID FROM PublicOwnership WHERE OwnershipType = 4 AND PolyID = PublicOwnership.PolyID)

Future Acquisitions: DataProviderID = 640 AND PolyID IN (SELECT PolyID FROM PublicOwnership WHERE OwnershipType = 6 AND PolyID = PublicOwnership.PolyID)

Washington DNR (Aquatic)

ArcMap SQL Filter

```
DataProviderID = 640 AND PrimaryDataSource = 1 AND PolyID IN (SELECT PolyID FROM PublicOwnership WHERE PublicOwnership.GeneralDescription LIKE '%<PARCEL_TYPE>AQUATIC</PARCEL_TYPE>%' AND PolyID = PublicOwnership.PolyID)
```

Washington State Parks

ArcMap SQL Filter

```
DataProviderID = 605 AND PrimaryDataSource = 1
```

Notes

Future Acquisitions are mapped to generic county polygons and can be identified with: DataProviderID = 605 AND PolyID IN (SELECT PolyID FROM PublicOwnership WHERE OwnershipType = 6 AND PolyID = PublicOwnership.PolyID)

Washington Department of Fish & Wildlife

ArcMap SQL Filter

```
Parcel.DataProviderID = 641 AND Parcel.PrimaryDataSource = 1
```

Notes

Future Acquisitions are mapped to generic county polygons and can be identified with: `DataProviderID = 641 AND PolyID IN (SELECT PolyID FROM PublicOwnership WHERE OwnershipType = 6 AND PolyID = PublicOwnership.PolyID)`

Federal Lands

ArcMap SQL Filter

`Parcel.DataProviderType = 8 AND Parcel.PrimaryDataSource = 1`

Notes

All federal lands can be identified with `Parcel.DataProviderType = 8`. Individual agencies can be identified with `Parcel.DataProviderID` and `PublicOwnership.OwnerType`.

Bureau of Land Management

ArcMap SQL Filter

`DataProviderID = 843 AND PrimaryDataSource = 1 AND PolyID IN (SELECT PolyID FROM PublicOwnership O WHERE OwnerName = 'Bureau of Land Management' AND PolyID = O.PolyID)`

Tribal Lands

ArcMap SQL Filter

From BLM: `DataProviderID = 843 AND PolyID IN (SELECT PolyID FROM PublicOwnership O WHERE OwnerType = 2 AND PolyID = O.PolyID)`

From Census Bureau: `DataProviderID = 801 AND PolyID IN (SELECT PolyID FROM PublicOwnership O WHERE OwnerType = 2 AND O.PolyID = PolyID)`

From Tribes (only Lummi Nation provided data): `DataProviderType = 5`

Notes

The Bureau of Land Management has the original ceded reservation boundaries but does not appear to have any recent updates to those boundaries or tribal lands held in trust. The Census data appears to have more recent boundary changes and lands held in trust therefore the Census tribal boundaries were flagged with `PrimaryDataSource = 1`.

Department of Defense

ArcMap SQL Filter

`((DataProviderID = 802) OR (DataProviderID = 843 AND PolyID IN (SELECT PolyID FROM PublicOwnership O WHERE OwnerName = 'United States Department of Defense' AND PolyID = O.PolyID))) AND (PrimaryDataSource = 1)`

Notes

Data for the Department of Defense came from the Defense Installations Spatial Data Infrastructure (DISDI) except for the Hanford ownership which is managed by the Department of Energy and supplied by BLM.

Forest Service

ArcMap SQL Filter

Parcel.DataProviderID = 803 AND Parcel.PrimaryDataSource = 1

Fish & Wildlife Service

ArcMap SQL Filter

Parcel.DataProviderID = 804 AND Parcel.PrimaryDataSource = 1

National Parks

ArcMap SQL Filter

((DataProviderID = 805) OR (DataProviderID = 843 AND PolyID IN (SELECT PolyID FROM PublicOwnership O WHERE OwnerName = 'United States National Park Service' AND O.PolyID = PolyID))) AND PrimaryDataSource = 1

Note

National Parks data came from both the National Parks Service and the Bureau of Land Management.

Bonneville Power Administration

ArcMap SQL Filter

DataProviderID = 843 AND PrimaryDataSource = 1 AND PolyID IN(SELECT PolyID FROM PublicOwnership O WHERE OwnerName = 'Bonneville Power Administration' AND PolyID = O.PolyID)

Notes

Data provided by BLM

Bureau of Reclamation

ArcMap SQL Filter

DataProviderID = 843 AND PrimaryDataSource = 1 AND PolyID IN(SELECT PolyID FROM PublicOwnership O WHERE OwnerName = 'Bureau of Reclamation' AND PolyID = O.PolyID)

Notes

Data provided by BLM

United States Coast Guard

ArcMap SQL Filter

DataProviderID = 843 AND PrimaryDataSource = 1 AND PolyID IN(SELECT PolyID FROM PublicOwnership O WHERE OwnerName = 'United States Coast Guard' AND PolyID = O.PolyID)

Notes

Data provided by BLM

United States Department of Energy

ArcMap SQL Filter

DataProviderID = 843 AND PrimaryDataSource = 1 AND PolyID IN(SELECT PolyID FROM PublicOwnership O WHERE OwnerName = 'United States Department of Energy' AND PolyID = O.PolyID)

Notes

Data provided by BLM

Local Government

Known Local Public Lands

ArcMap SQL Filter

DataProviderType = 4 AND PrimaryDataSource = 1 AND PolyID IN (SELECT PolyID FROM PublicOwnership O WHERE OwnerType = 1 AND O.PolyID = PolyID)

Possible Other Public Lands with an "Unknown" owner

ArcMap SQL Filter

DataProviderType = 4 AND PolyID IN (SELECT PolyID FROM PublicOwnership O WHERE OwnerType = 0 AND O.PolyID = PolyID)

Notes

County and local data quality varies widely across the state. While county assessors are statutorily responsible for maintaining land records and tax rolls for their counties the reality is that when it comes to non-taxable lands assessors have little interest and resources to maintain quality data. Many counties don't maintain information on public land at all. They simply mark the parcel as non-taxable leaving every other attribute of the land blank in their systems. For these reasons the data used for local lands comes directly from the 2012 Washington State Parcel Database. Based on previous work done by UW-SEFS automated routines were used to identify public lands using land use codes and an extensive list of owner names and abbreviations. In the data provided by counties there are over 7.5 million acres of land with an "unknown" or blank owner. Many of those lands are public but the land use is unknown. There are also many private lands with unknown or blank ownership information.

Processing

Parks

Ownership Worksheet

There were multiple records in Ownership worksheet with same KeyLink value as described below. In order to not insert duplicate records in the database, the following actions were taken for Ownership records with each KeyLink.

KeyLink	Action
6650013	Keep record for Grant, ignore record for Douglas
716011C	Keep record for Whitman, ignore record for Adams
716011D	Keep record for Lincoln, ignore record for Whitman
8850112	Keep record for Kittitas, ignore record for King
5400002B	Keep record for Skagit, ignore record for Whatcom
5400021A	Keep record for Whatcom, ignore record for Skagit
5400021B	Keep record for Skagit, ignore record for Whatcom
625111	Remove county field, sum acres field, keep acquisition cost field
830005	Remove county field, sum acres field, keep acquisition cost field

Values in the OwnershipType field were mapped to our Domain as follows:

Source Value	Domain Value	Domain Value Description
NULL	0	Unknown
Fee Simple	1	Fee Simple

WDFW

Parcels sold in their entirety (records in RCO PROVISIO DEEDS AND CEs, with an Agency Control # that matches another record and whose acres match another record with Ownership Type value: SOLD) were not included in the database.

Caveats

- Where parcel geometry is missing land records were mapped to county GIS polygons;
- Washington DNR Forest Riparian Easements were mapped to county GIS polygons;
- Washington DNR Riparian Open Space were mapped to county GIS polygons;
- Future acquisitions were mapped to county GIS polygons;

County Data

- Due to time and budget limitations, with the exception of Asotin County, new county data was not acquired for this project. County data was obtained from the 2012 Washington State Parcel Database (<http://depts.washington.edu/wagis/projects/parcels/>). Counties did not actively participate in identifying publically owned lands for this project.
- Publicly owned parcels were identified through extensive processing of the owner names. There are county parcels with no owner information; these were included in the Public Land Inventory database because there is no way to determine if they are publically owned or not. The owner type was set to unknown for these parcels.

United States Census Bureau

- Census data was used as the primary data source for Tribal lands. These are the boundaries of both reservations and usual and accustomed places.

United States Bureau of Land Management

- It was originally intended that the BLM would be the primary data source for federally owned lands. The BLM data was not current or accurate enough to be used for this purpose. Federal lands were acquired from multiple sources. The BLM remains the primary source for BLM ownerships.

Known Issues

- Whitman County does not have GIS and parcels are represented as “Pseudo Parcels”;
- Many locally owned public lands have no owner listed and while they may be public it is impossible to deduce with certainty and therefore are indicated with PublicOwnership.OwnerType = 0:Unknown;
- The sum of PublicInvestments.FundingAmount for Washington State Parks acquisitions do not always add up to PublicOwnership.AcquisitionCost;

- Not all spatial conflicts between ownership layers have been resolved;

Change Log

R1.0

- Corrected DataProviderID for US NPS and US FWS which were switched in the Release Notes;

R1.2

- Flagged pseudo county parcels as PrimaryDataSource = 1 where appropriate
- Fixed WDFW sold acres in the PublicOwnership table

R1.3

- Fixed WDFW sold acres in the PublicLandUse table

De-Normalized SQL Server View for State and Federal Lands

```
ALTER VIEW SV_PublicLandsForWebApplication AS
SELECT Q.PolyID, Q.DataProviderID, Q.DataProviderType AS DataProviderTypeCD,
Y.DataProviderType, DP.Abbreviation AS DataProviderAbbreviation, N.Owner, Q.GISAcres,
Q.PseudoParcelFlag, Q.PrimaryLandUse AS PrimaryLandUseCD, L.PublicLandUse
AS PrimaryLandUse, Q.SHAPE,
AcresOwnershipTypeUnknown, AcresFeeSimple, AcresConservationEasement,
AcresRightOfWay, AcresOtherEasement, AcresSold, AcresProposedFutureAcquisition,
FirstAcquisitionYear, TabularAcres, AcquisitionCost, FundingAmount,
AcresLandUseUnknown, AcresDevelopedRecreationLand,
AcresHabitatAndPassiveRecreationLand AS AcresHabitatAndPassiveRecLand,
AcresRevenueGeneration, AcresConservation, AcresOtherPublic,
AcresAcquiredSince2003
FROM (
SELECT P.PolyID, COUNT(O.PublicOwnershipID) AS CountOwnership,
SUM(O.Acres) AS TabularAcres, MIN(O.AcquisitionYear) AS
FirstAcquisitionYear, SUM(O.AcquisitionCost) AS AcquisitionCost,
SUM(ISNULL(I.FundingAmount, 0)) AS FundingAmount,
SUM(AcresOwnershipTypeUnknown) AS AcresOwnershipTypeUnknown,
SUM(AcresFeeSimple) AS AcresFeeSimple, SUM(AcresConservationEasement) AS
AcresConservationEasement,
SUM(AcresRightOfWay) AS AcresRightOfWay,
SUM(AcresOtherEasement) AS AcresOtherEasement,
SUM(AcresSold) AS AcresSold,
SUM(AcresProposedFutureAcquisition) AS AcresProposedFutureAcquisition,
SUM(AcresLandUseUnknown) AS AcresLandUseUnknown,
SUM(AcresDevelopedRecreationLand) AS AcresDevelopedRecreationLand,
SUM(AcresHabitatAndPassiveRecreationLand) AS
AcresHabitatAndPassiveRecreationLand, SUM(AcresRevenueGeneration) AS
AcresRevenueGeneration,
SUM(AcresConservation) AS AcresConservation,
SUM(AcresOtherPublic) AS AcresOtherPublic, SUM(A.AcresAcquiredSince2003) AS
AcresAcquiredSince2003
FROM Parcel P
LEFT JOIN PublicOwnership O ON P.PolyID = O.PolyID
LEFT JOIN (
-- Public Investment
SELECT PublicOwnershipID,
SUM(FundingAmount) AS FundingAmount
```

```

FROM PublicInvestment
GROUP BY PublicOwnershipID
) I ON O.PublicOwnershipID =

I.PublicOwnershipID
LEFT JOIN (
-- Land Use
SELECT PublicOwnershipID, [0] AS
AcresLandUseUnknown, [1] AS AcresDevelopedRecreationLand, [2] AS
AcresHabitatAndPassiveRecreationLand,
[3] AS
AcresRevenueGeneration, [4] AS AcresConservation, [5] AS AcresOtherPublic
FROM (
SELECT PublicOwnershipID,
LandUse, Acres
FROM PublicLandUse
WHERE LandUseType = 1
) AS LandUseSourceTable
PIVOT (
SUM(Acres) FOR LandUse IN
([0], [1], [2], [3], [4], [5])
) AS LandUsePivotTable
) AS LU ON O.PublicOwnershipID =

LU.PublicOwnershipID
LEFT JOIN (
-- Public Ownership Type
SELECT PublicOwnershipID, [0] AS
AcresOwnershipTypeUnknown, [1] AS AcresFeeSimple, [2] AS AcresConservationEasement,
[3] AS AcresRightOfWay, [4]
AS AcresOtherEasement, [5] AS AcresSold, [6] AS AcresProposedFutureAcquisition
FROM (
SELECT PublicOwnershipID,
OwnershipType, Acres
FROM PublicOwnership
) AS
OwnershipTypeSourceTable
PIVOT (
SUM(Acres) FOR
OwnershipType IN ([0], [1], [2], [3], [4], [5], [6])
) AS
OwnershipTypePivotTable
) AS POT ON O.PublicOwnershipID =

POT.PublicOwnershipID
LEFT JOIN (
SELECT PublicOwnershipID, SUM(Acres) AS
AcresAcquiredSince2003
FROM PublicOwnership
WHERE AcquisitionYear >= 2003
GROUP BY PublicOwnershipID
) AS A ON O.PublicOwnershipID =

A.PublicOwnershipID
WHERE P.PrimaryDataSource = 1
AND O.OwnerType <> 2 -- Exclude tribal lands
GROUP BY P.PolyID
) S
RIGHT JOIN Parcel Q ON S.PolyID = Q.PolyID
LEFT JOIN DataProvider DP ON Q.DataProviderID = DP.DataProviderID
LEFT JOIN DOMAIN_PUBLICLANDUSE L ON Q.PrimaryLandUse = L.PublicLandUseCode

```

```

LEFT JOIN DOMAIN_DATAPROVIDERTYPE Y ON Q.DataProviderType =
Y.DataProviderTypeCode
LEFT JOIN (
    -- Major owners for web application
    SELECT DISTINCT P.PolyID,
        CASE
            WHEN (P.DataProviderID = 640 AND
(O.GeneralDescription LIKE '%<PARCEL_TYPE>UPLAND</PARCEL_TYPE>%' OR O.OwnershipType
IN(2,4,6))) THEN 'DNR Uplands'
            WHEN (P.DataProviderID = 640 AND
O.GeneralDescription LIKE '%<PARCEL_TYPE>AQUATIC</PARCEL_TYPE>%') THEN 'DNR Aquatic'
            WHEN (P.DataProviderID = 605) THEN
'Parks'
            WHEN (P.DataProviderID = 641) THEN
'DFW'
            WHEN (P.DataProviderID IN
(802,803,804,805,843)) THEN 'Federal'
            ELSE 'Other'
        END AS Owner
    FROM Parcel P
        INNER JOIN PublicOwnership O
        ON P.PolyID = O.PolyID
    WHERE P.PrimaryDataSource = 1
        AND O.OwnerType <> 2
        AND P.DataProviderType IN(6,8)
    ) AS N ON Q.PolyID = N.PolyID
WHERE Q.PrimaryDataSource = 1
    AND Q.DataProviderType IN (6,8) -- Only state and federal
lands

```