

Oregon Cadastral Data Content Standard

Mapping Control Points and PLSS:

Control points may represent government corners or other identifiable points on an assessor's map base. These points may be located with GPS but other methodologies exist for determining control point locations. They can be calculated off subdivisions, survey and right-of way maps that reference and tie to government corners. They can be derived by relating subdivision, survey and right-of way maps to the National Geodetic Survey (NGS) triangulation stations. Control points can be shared or duplicated between adjacent maps. In areas where larger scale maps are expected, it may be necessary to develop improved control beyond the scale the area is currently mapped (e.g. An Urban Growth Boundary area planning for development). Decisions about whether maps are urban, rural or resource are up to the cartographer and will be stated in the metadata. Urban maps could be 1"=100' and mapped on 1"=200' as well. The same situation can occur with rural and resource lands being mapped on 1"=400' or 1"=2000' scale maps. The number of control points recommended per map, so it meets ORMAP Goal 4 accuracy, is outlined in the chart below:

Typical Map Type or Scale	ORMAP Taxlot Accuracy (Relative to Control)	<u>Recommended</u> Control Quality	<u>Recommended</u> Control points per Map (Points may be used for more than one map)	PLSS Corners Needed (If found, corners meet accuracy) (Calculated or Surveyed)
Urban (1"=100' or 1"=200')	+/- 2'	+/- 1 Foot or better	4	1/16 Section or 1/4 Section
Rural (1"=400' & sometimes 1"=200')	+/- 20'	+/- 10 Feet or better or matching GLO record	Up to 4 or GLO	Section
Resource (1"=400' and 1"=2000')	+/- 40'	+/- 20 Feet or better or matching GLO record	Up to 4 or GLO	Township

There is also a hierarchy of usefulness for control points. Any control point acquired that is a government corner is the “first choice” since it can be used to refine the PLSS as well as provide corner ties for subdivision, survey and right-of way maps. “Second choice” points are still useful but time must be taken to work back through subdivision, survey and right-of way maps to determine a government corner location. The PLSS cannot be refined until that process is complete. Below are examples of “first choice” and “second choice” control points. Metadata should accompany each control point. This will be developed as a part of a surveyor’s duties in collecting data. In some cases control collected or determined before modern methods. In these cases the cartographer will make an estimate of its suitability for ORMAP purposes. If the cartographer believes the control used to make the taxlot base meets these standards no additional confirmation is needed.

OREGON DEPARTMENT OF REVENUE ORTHO ½ METER DATA STANDARDS

Imagery shall be compiled to meet the appropriate NAIP standards: +/- 6 meters to true ground.

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