

Levels of certainty associated with estimates of properties for WA Soil Groups

The data in the Soil_Group_Attribution table is based on average values (real or estimated) for each soil group for each attribute, as set out in the table below.

Soil property	Level of certainty	Basis for estimate
A-horizon texture	H	<ul style="list-style-type: none"> • Site data from Soil Profile database by looking at the average A and B texture for each Soil Group • Soil Groups definition in publication • Expert knowledge.
B-horizon texture	M	
A-horizon clay %	M	<ul style="list-style-type: none"> • Average clay % using lab particle size data from Soil Profile database for each Soil Group. • Average clay % for each texture group for all available records in Soil Profile database • Expert knowledge.
B-horizon clay %	M	
A-horizon thickness	M	<ul style="list-style-type: none"> • Profile data for Soil Groups in the Soil Profile database • Soil Groups definition in publication • Expert knowledge
B-horizon thickness	L	
A- and B-horizon bulk density	L	<ul style="list-style-type: none"> • Available lab data from the Soil Profiles database for each Soil Group • Expert knowledge where data lacking • Interpolation of McKenzie et al (2000) PPF attribution.
A- and B-horizon saturated hydraulic conductivity	M	<ul style="list-style-type: none"> • Expert knowledge of Ksat for different horizons based primarily on texture and structure • Interpolation of McKenzie et al (2000) PPF attribution.
Soil Reaction Trend	M	Interpretation of the properties of each soil group, based on the soil group definitions.
A- and B-horizon AWC	M	Rules of thumb for AWC for different horizons from Soilguide based primarily on texture and structure

where

H High certainty : Estimate based on good data and data likely to be in a narrow range. Result likely to be fairly accurate

M Moderate certainty: Result based on data plus significant expert judgement.

L Low certainty: A best guess based on limited data and experience