

Lakes and Reservoirs of Wales

Card set 1

Lake Vyrnwy		Llyn Brianne	
Surface area	$4.54 \times 10^6 \text{ m}^2$	Surface area	518 acres
Water Volume	1.31×10^{10} gallons	Water Volume	64 billion litres
Use	Water supply	Use	Water supply/ hydroelectricity
Location	Powys	Location	Carmarthenshire
Llyn Clywedog		Llyn Trawsfynydd	
Surface area	2.49 km ²	Surface area	$4.8 \times 10^6 \text{ m}^2$
Water Volume	$4.99 \times 10^7 \text{ m}^3$	Water Volume	7.3×10^9 gallons
Use	Water supply	Use	Nuclear and hydroelectricity
Location	Powys	Location	Gwynedd
Claerwen Reservoir		Llyn Cefni	
Surface area	6.64×10^2 acres	Surface area	0.86 km ²
Water Volume	1.06×10^{10} gallons	Water Volume	400 million gallons
Use	Water supply	Use	Water supply
Location	Powys	Location	Anglesey
Llyn Alaw (Lily Lake)		Cronfa Ddŵr Llanisien (Llanishen Reservoir)	
Surface area	3.6 km ²	Surface area	23.8 ha
Water Volume	1.64×10^9 gallons	Water Volume	1 440 909 m ³
Use	Water supply	Use	Water supply/ leisure
Location	Anglesey	Location	Cardiff

Llyn Celyn		Ystradfellte	
Surface area	330 ha	Surface area	0.81 km ²
Water Volume	8.09 × 10 ⁷ m ³	Water Volume	180 000 m ³
Use	Water supply	Use	Water supply
Location	Gwynedd	Location	Powys
Llyn Brenig		Nant y Moch	
Surface area	3 723 000 m ²	Surface area	525 acres
Water Volume	6.15 × 10 ⁷ m ³	Water Volume	3.3 × 10 ⁷ m ³
Use	Flow regulation	Use	Hydroelectricity
Location	Conwy/ Denbighshire	Location	Ceredigion
Caban Coch		Llandegfedd	
Surface area	2.02 km ²	Surface area	434 acres
Water Volume	7.8 billion gallons	Water Volume	5.4 × 10 ⁹ gallons
Use	Water supply	Use	Water supply
Location	Powys	Location	Monmouthshire
Pontsticill Reservoir		Alwen Reservoir	
Surface area	1.412 × 10 ⁶ m ²	Surface area	1 490 000 m ²
Water Volume	1.6 × 10 ¹⁰ litres	Water Volume	3.2 billion gallons
Use	Water supply	Use	Water supply
Location	Powys	Location	Conwy
Usk Reservoir		Talybont Reservoir	
Surface area	1.16 × 10 ² ha	Surface area	3.18 × 10 ² acres
Water Volume	2.70 × 10 ⁹ gallons	Water Volume	1.17 × 10 ¹⁰ litres
Use	Water supply	Use	Water supply
Location	Carmarthenshire	Location	Powys

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You will probably need the following information about conversions between units of measure:

$$1 \text{ m}^3 = 219.97 \text{ Imperial Gallons}$$

$$1 \text{ Acre} = 4,046.86 \text{ m}^2$$

$$1 \text{ hectare} = 10,000 \text{ m}^2$$

$$1 \text{ km}^2 = 1,000,000 \text{ m}^2$$