

**Table B5.3W - Supply forecasts: water service: line definitions**

1	Deployable output	Ml/d (2dp)
<b>Full line title</b>	Average deployable output minus process losses	
<b>Definition</b>	<p>Average deployable output should be consistent with any water resources plan, less any process losses and consistent with any figures agreed with SEPA.</p> <p>For groundwater sources, the deployable output is defined as:</p> <ul style="list-style-type: none"> <li>• The output for specified conditions and demands of a commissioned source or group of sources as constrained by: licensed quantities (if applicable); water quantity; environment (constraints in licence); treatment; raw water mains and/or aquifers pumping plant; and/or well/aquifer properties; transfer and/or output main.</li> </ul> <p>For surface water systems, the deployable output is defined as:</p> <ul style="list-style-type: none"> <li>• The constant rate of supply that can be maintained from the water resources system except during periods of restriction within the following constraints: given level of service; the historic period for which data is available or could be derived; supply without storage entering the emergency storage zone; supply within the defined physical capacities of the existing system adopted for the simulation; source operation in accordance with any licence, or, for specified scenarios, a Drought Order or Permit.</li> </ul>	
<b>Processing rules</b>	Input field	
<b>Reference</b>	New	

2	Reductions in output imposed by SEPA	MI/d (2dp)
<b>Full line title</b>	Reduction in output imposed by the Scottish Environmental Agency	
<b>Definition</b>	Any reduction in deployable output that results from abstraction reductions imposed by SEPA.	
<b>Processing rules</b>	Input field	
<b>Reference</b>	New	

3	Reductions in output to meet other statutory obligations	MI/d (2dp)
<b>Full line title</b>	Reduction in output to meet other statutory obligations	
<b>Definition</b>	The reduction in deployable output that results from the need to meet other statutory obligations, such as a new water quality standard or to deal with deteriorating raw water quality.	
<b>Processing rules</b>	Input field	
<b>Reference</b>	New	

4	Outage allowance	MI/d (2dp)
<b>Full line title</b>	Outage allowance	
<b>Definition</b>	<p>Outage is defined as a temporary loss of deployable output due to planned or unplanned events. Planned events are those such as maintenance of source works; unplanned events are exclusively pollution, turbidity, nitrate, algae, power failure and system failure.</p> <p>Outage allowance should be consistent with any figures agreed with SEPA.</p>	
<b>Processing rules</b>	Input field	
<b>Reference</b>	New	

5	Bulk imports	MI/d (2dp)
<b>Full line title</b>	Water delivered: bulk supply imports.	
<b>Definition</b>	<p>Volume of water imported from other companies in bulk supplies. Include treated imports (and untreated imports, which are treated by Scottish Water), but exclude non potable supplies.</p>	
<b>Processing rules</b>	Input field	
<b>Reference</b>	New	

6	Bulk exports	MI/d (2dp)
<b>Full line title</b>	Water delivered: bulk supply exports.	
<b>Definition</b>	Annual average daily flow of water exported to other companies in bulk supplies. Include treated exports (and untreated exports which are treated by the receiving company), but exclude non-potable supplies.	
<b>Processing rules</b>	Input field	
<b>Reference</b>	New	

7	Water available for use	MI/d (2dp)
<b>Full line title</b>	Water available for use	
<b>Definition</b>	<p>Water available for use is defined as: the deployable output ....</p> <ul style="list-style-type: none"> <li>– less any sustainability reductions</li> <li>– plus any bulk supply imports</li> <li>– less any bulk supply exports</li> <li>– less any reductions made for outage allowance.</li> </ul> <p>Water available for use should be consistent with any figures agreed with SEPA.</p>	
<b>Processing rules</b>	Calculated field: line 1 minus line 2, minus line 3, minus line 4, plus line 5, minus line 6.	
<b>Reference</b>	New	

8	Distribution input (normal year)	MI/d (2dp)
<b>Full line title</b>	Distribution input (normal year)	
<b>Definition</b>	Normal year distribution input is the annual average amount of potable water entering the distribution system within the area of supply in years that do not experience exceptional conditions. It is expected to be equal to metered distribution input.	
<b>Processing rules</b>	Input field	
<b>Reference</b>	New	

9	Distribution input (dry year)	MI/d (2dp)
<b>Full line title</b>	Distribution input (dry year)	
<b>Definition</b>	Dry year distribution input is the annual average amount of potable water entering the distribution system within the area of supply in 'dry' years. Guidance on what constitutes a 'dry year', is contained in water resource guidance on the Environment Agency web site. This line should correspond with any figures agreed with SEPA.	
<b>Processing rules</b>	Input field	
<b>Reference</b>	New	

10	Available headroom (dry year)	MI/d (2dp)
<b>Full line title</b>	Available headroom (dry year)	
<b>Definition</b>	Available headroom (dry year), is the difference between water available for use and dry year distribution input.	
<b>Processing rules</b>	Calculated field: line 7 minus line 9	
<b>Reference</b>	New	

11	Target headroom (dry year)	MI/d (2dp)
<b>Full line title</b>	Target headroom (dry year)	
<b>Definition</b>	<p>The threshold or minimum acceptable headroom which, under the conditions assumed for the forecast of dry year annual average demand, would trigger the need for the introduction of those water management activities (from source to end use) that would result in an increase in water available for use or a decrease in demand.</p> <p>Target headroom should be consistent with that used in any water resource plan and any figures agreed with SEPA. - We recommend that Target headroom be determined having regard to the 'Economics of balancing supply and demand', (published by NERA for UKWIR and NERA ref. 02/WR/13/2) or other demonstrable good practice</p>	
<b>Processing rules</b>	Input field	
<b>Reference</b>	New	

12	Water available for use (critical period)	MI/d (2dp)
<b>Full line title</b>	Water available for use (critical period)	
<b>Definition</b>	<p>Critical period water available for use is defined as the critical period deployable output less sustainability reductions, plus bulk supply imports, less bulk supply exports and less reductions made for outage allowance. Scottish Water should provide details of the conditions that govern the timing and duration of the critical period.</p> <p>Critical period water available for use should be consistent with any figures agreed with SEPA.</p>	
<b>Processing rules</b>	Input field	
<b>Reference</b>	New	

13	Distribution input (critical period)	MI/d (2dp)
<b>Full line title</b>	Distribution input (critical period)	
<b>Definition</b>	<p>The forecast of average distribution input over the critical period. Scottish Water should provide details of the conditions that govern the timing and duration of the critical period. Critical period distribution input should be consistent with any figures agreed with SEPA.</p>	
<b>Processing rules</b>	Input field	
<b>Reference</b>	New	

14	Target headroom (critical period)	MI/d (2dp)
<b>Full line title</b>	Target headroom (critical period)	
<b>Definition</b>	<p>The threshold or minimum acceptable headroom, which under the conditions assumed for the forecast of average demand over a critical period, would trigger the need for the introduction of those water management activities (from source to end use) that would result in an increase in water available for use or a decrease in demand. Target headroom should be consistent with that used in the water resource plan and any figures agreed with SEPA. We recommend that Target headroom be determined having regard to the 'Economics of balancing supply and demand', (published by NERA for UKWIR and NERA ref. 02/WR/13/2), or other demonstrable good practice.</p>	
<b>Processing rules</b>	Input field	
<b>Reference</b>	New	