

Chapter 10a Non financial measures Security of supply index



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Guidance

The security of supply index describes company planned and reference levels of service in table 10 lines 31 and 32 respectively for average demand in a dry year. The company should submit the index using dry year average demand in the table.

If the company believes that critical period conditions are a key aspect of the security of supply we also expect it to complete the information based on critical period conditions.

Company commentary

Calculation of the security of supply index should follow the approach adopted by the companies in England and Wales. The company should therefore follow the guidance for calculating the security of supply index as set out in Ofwat's RD 03/02 (Annex A provides calculation guidance).

There are many elements of the security of supply index calculation that should be common to water resource plan updates and there should be consistency for the following:

Water resource zones, water available for use and target headroom.

If an operational company water resource plan exists it should be attached as an Annex to the commentary.

The company should follow the definitions set out in the Environment Agency's Water Resource Planning Guidelines (http://www.environment-agency.gov.uk/subjects/waterres/981441/408371/) for the following: water available for use and reporting year distribution input.

Bulk supply imports and exports should be based on a dry year, and should be the maximum amounts that the company may request under its contracts or be obliged to supply.

Water available for use should be calculated to a common reference level of service used in the Environment Agency's '1997 Reassessment of Water Company Yields' and as detailed in Annex A of Ofwat's RD 03/02. If the company is not able to precisely replicate the reference level of service, it should estimate yields as closely in line with the reference level of service as possible and should set out any assumptions clearly in the commentary.

The company should:

- confirm that it has applied a dry year adjustment factor to reported distribution input to derive dry year distribution input, and explain the basis of that factor; and
- reconcile actual scores for the SBP period to forecasts making reference to the delivery of schemes.



Guidance for Reporters

The reporter shall check that the company has followed the guidance for calculating the security of supply index as set out in Ofwat's RD 03/02. Where the company has not followed the guidance, the reporter shall explain why and comment on the validity of the company's reasoning.

There are many elements of the security of supply index calculation that should be common to a company's water resource plan updates.

The reporter shall check and comment on whether the company has an appropriate operational water resource plan, and if so, check that there has been consistency for the following:

- Water resource zones,
- water available for use,
- · reporting year distribution input; and
- target headroom.

Where there is a difference between the figures used in the water resource plan updates and those used to calculate the index, the reporter shall ask the company to explain why and comment on the company's justification.

The reporter shall confirm whether the company has followed the definitions set out in the Environment Agency's Water Resource Planning Guidelines for the following: water available for use and reporting year distribution input. Where these elements are not consistent with the Agency's definitions, the reporter shall ask the company to explain why and comment on its explanation.

Where best practice methodology has been established for assessing components of the supply/demand balance, the reporter shall establish whether the company has followed best practice, challenging and commenting on the company's reasoning if it has not.

Bulk supply imports and exports should be based on a dry year (or critical period if relevant), and should be the maximum amounts that the company may request under its contracts or be obliged to supply. The reporter should confirm whether the company has followed this definition and comment on its reasoning if it has not.

Water available for use should be calculated to a common reference level of service used in the Environment Agency's '1997 Reassessment of Water Company Yields'. It is recognised that in some circumstances, the company may not be able to precisely replicate the reference level of service. The reporter should comment on the consistency between the reference level of service used to calculate the index and that used in the '1997 Reassessment of Water Company Yields', explaining any discrepancy.

We have asked the company to explain the basis of its dry year adjustment – the reporter should comment on the robustness of the company's approach. If the company uses a different ratio to adjust the report year to a dry year than it uses in its resource plan, the reporter should comment on the company's explanation.

The reporter should also comment on the appropriateness of the company's reconciliation of actual scores to forecasts for the SBP period.



Table 10a column definitions SECURITY OF SUPPLY INDEX

1	Water resource zone	text
Definition	Company to enter zonal name	
Primary Purpose	Checking compliance with statutory and Licence requ	uirements.
Processing rule	Input	
Responsibility	Network Regulation Team	

2	WAFU (EA definition)	MI/d	2dp
Definition	Water available for use is defined as deployable outp sustainability reductions and reductions made for out allowance in a resource zone.		
Primary Purpose	Checking compliance with statutory and Licence requ	uiremen	ts.
Processing rule	Input		
Responsibility	Network Regulation Team		

3	Bulk imports	MI/d	2dp
Definition	Volume of water imported in bulk supplies by the app business. Include treated imports and untreated imported treated by the appointed business, but exclude non-p supplies. Bulk imports should be based on a dry year and be continued the those assumed in the company's water resource plar appropriate operational plan exists). These should be maximum amounts requested under contract.	orts which ootable onsister o (if an	
Primary Purpose	Checking compliance with statutory and Licence requ	uiremen	ts.
Processing rule	Input		
Responsibility	Network Regulation Team	•	•

4	Bulk exports	MI/d	2dp
Definition	Volume of water exported in bulk supplies by the app business. Include treated exports and untreated exported treated by the appointed business, but exclude non-pusupplies. Bulk exports should be based on a dry year and be on those assumed in the company's water resource plar appropriate operational plan exists). These should be maximum amounts that the appointed business may supply.	orts which otable onsister or (if an or the	nt with
Primary Purpose	Checking compliance with statutory and Licence requ	uiremen	ts.
Processing rule	Input		
Responsibility	Network Regulation Team		

5	Dry year distribution input	MI/d	2dp
Definition	Distribution input recorded during the year adjusted by factor. The dry year factor should be based on a comen the relationship between normal and dry year distrocasts assumed in the company's water resour an appropriate operational plan exists); and any difference between the report year conditions that underlie your normal year distribution input for	bination tribution rce plan and th	of: n input n (if
Primary Purpose	Checking compliance with statutory and Licence requ	uiremen	ts.
Processing rule	Input		
Responsibility	Network Regulation Team		



6	Reporting year distribution input	MI/d	2dp
Definition			
Definition	The average amount of portable water entering the distribution system at the point of production.		
Drime and Drive and		!	4
Primary Purpose	Checking compliance with statutory and Licence rec	uiremen	its.
Processing rule	Input		
Responsibility	Network Regulation Team		
7	Dry year available headroom	MI/d	2dp
Definition	The difference between water available for use (incl	uding bu	lk
	imports and exports) and dry year annual average d	lemand	
	(expressed as distribution input) at any given point i	n time.	
Primary Purpose	Checking compliance with statutory and Licence rec	quiremen	its.
Processing rule	Calculated: the sum of columns 2 and 3, minus colu	mns 4 aı	nd 5.
Responsibility	Network Regulation Team		
	· ·		
8	Target headroom	MI/d	2dp
Definition	The threshold or minimum acceptable headroom wh		
Deminion	conditions assumed for the forecast of dry year anni		
	demand, would trigger the need for the introduction		
	management activities (from source to end use) that		
	in an increase in water available for use or a decrea		
	Target headroom should be consistent with that use		
	company's water resource plan to maintain the bala		veen
	supply and demand (if an appropriate operational pl		
Primary Purpose	Checking compliance with statutory and Licence rec		
Processing rule	Input		
Responsibility	Network Regulation Team		
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9	Surplus/deficit	MI/d	2dp
Definition	The amount of water available after meeting deman	d and tai	rget
	headroom (i.e. the difference between available hea		
	target headroom).		
Primary Purpose	Checking compliance with statutory and Licence red	quiremen	ıts.
Processing rule	Calculated: column 7 minus column 8.		
Responsibility	Network Regulation Team		
10	Percentage surplus/deficit	%	2dp
Definition	The percentage of water available after meeting der		
	target headroom.	a.ia aii	∽
Primary Purpose	Checking compliance with statutory and Licence red	uiremen	ıts
Processing rule	Calculated: column 9 divided by the sum of columns 5 and 8.		
Responsibility	Network Regulation Team	<i>y</i> 0 and 0	•
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11	Zonal population	000	245
	Zonal population		3dp
Definition	The total average resident population in the water re		
Primary Purpose	Checking compliance with statutory and Licence red	uiremen	ıs.
Processing rule	Input Transfer Transf		
Responsibility	Network Regulation Team		



12	Percentage of total population with headroom deficit	%	0dp
Definition	The proportion of the company's customers that a headroom deficit.	are exposed	l to a
Primary Purpose	Checking compliance with statutory and Licence r	equiremen	ts
Processing rule	Calculated: if column 9 is less than 0, then divide the total sum of column 11.	column 11	by
Responsibility	Network Regulation Team		

13	Zonal Index (percentage deficit ² x % population affected x 100)	nr	3dp
Definition	The Security of Supply index score for each indiviresource zone. The index is a function of the squaso that large deficits affecting small zones weigh index.	are of the d	
Primary Purpose	Checking compliance with statutory and Licence r	equiremen	ts
Processing rule	Calculated: column 10 squared, multiplied by columultiplied by 100.	ımn 12, the	n
Responsibility	Network Regulation Team		·

14	Security of Supply Index	nr	0dp
Definition	The overall Security of Supply index score for the company.		
	This should be consistent with line 31 of table 10 levels of service and line 32 of table 10 for referer service.		
Primary Purpose	Checking compliance with statutory and Licence r	requiremen	ts.
Processing rule	Calculated: 1 minus the total sum of column 13, n rounded down to the nearest whole number	nultiplied by	/ 100
Responsibility	Network Regulation Team		



CHANGE CONTROL SHEET CHAPTER 10a

2008/1.0	First issue of chapter for the SBP period
2009/1.0	Second issue of chapter for the SBP period
	- No amendments
2010/1.0	Third issue of chapter for SBP period.
	 Minor change to guidance relating to SoSI profiles