

**Section: E      Operating Costs and Efficiency**

**Table: E4      Water resource and treatment**

<b>E4.0</b>	<b>Area Name</b>	<b>Text</b>	<b>-</b>
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**Data Definition:** Name of Area.

**Processing Rule:** Input field

**Field Type:** Input

**Previous References:** Ofwat 07 Ref:       WICS 06 Ref:

<b>E4.1</b>	<b>Impounding reservoirs</b>	<b>nr, MI/d</b>	<b>0dp, 3dp</b>
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**Data Definition:** Number of sources and distribution input derived from impounding reservoirs.

**Processing Rule:** Column 'Total sources' is the sum of the number of sources and column 'Total source outputs' is the sum of all source outputs.

**Field Type:** Input

**Previous References:** Ofwat 07 Ref:       WICS 06 Ref:

<b>E4.2</b>	<b>Lochs</b>	<b>nr, MI/d</b>	<b>Odp, 3dp</b>
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**Data Definition:** Number of sources and distribution input derived from lochs.

**Processing Rule:** Column 'Total sources' is the sum of the number of sources and column 'Total source outputs' is the sum of all source outputs.

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.3</b>	<b>River and burn abstractions</b>	<b>nr, MI/d</b>	<b>Odp, 3dp</b>
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**Data Definition:** Number of sources and distribution input derived from river and burn (including via bankside storage) abstractions.

**Processing Rule:** Column 'Total sources' is the sum of the number of sources and column 'Total source outputs' is the sum of all source outputs.

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.4</b>	<b>Boreholes</b>	<b>nr, MI/d</b>	<b>Odp, 3dp</b>
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**Data Definition:** Number of sources and distribution input derived from boreholes (including springs).

**Processing Rule:** Column 'Total sources' is the sum of the number of sources and column 'Total source outputs' is the sum of all source outputs .

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.5</b>	<b>Total</b>	<b>nr, MI/d</b>	<b>0dp, 3dp</b>
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**Data Definition:** Total number of sources and distribution input.

**Processing Rule:** Sum of E4.1 to E4.4

**Field Type:** Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.6</b>	<b>Bulk water exports</b>	<b>nr, MI/d</b>	<b>0dp, 3dp</b>
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**Data Definition:** The number and volume of raw water exports provided by SW from its own sources outwith SW's service area.

**Processing Rule:** Column 'Total sources' is the sum of the number of sources and column 'Total source outputs' is the sum of all source outputs.

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.7</b>	<b>Bulk water imports</b>	<b>nr, MI/d</b>	<b>0dp, 3dp</b>
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**Data Definition:** The number and volume of raw water imports imported from resource areas out with those of SW.

**Processing Rule:** Column 'Total sources' is the sum of the number of sources and column 'Total source outputs' is the sum of all source outputs.

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.8</b>	<b>Impounding reservoirs</b>	<b>nr</b>	<b>-</b>
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**Data Definition:** The proportion of Distribution Input derived from impounding reservoirs for each area.

**Processing Rule:** Daily output per area (line E4.1) divided by the total daily output of all areas and own sources.

**Field Type:** Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.9</b>	<b>Lochs</b>	<b>nr</b>	<b>-</b>
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**Data Definition:** The proportion of Distribution Input derived from lochs for each area.

**Processing Rule:** Daily output per area (line E4.3) divided by the total daily output of all areas and own sources.

**Field Type:** Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.10</b>	<b>River and burn abstractions</b>	<b>nr</b>	<b>-</b>
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**Data Definition:** The proportion of Distribution Input derived from River and Burn Abstractions (including via bankside storage) for each area.

**Processing Rule:** Daily output per area (line E4.3) divided by the total daily output of all areas and own sources.

**Field Type:** Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.11</b>	<b>Boreholes</b>	<b>nr</b>	<b>-</b>
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**Data Definition:** The proportion of Distribution Input derived from boreholes (including springs) for each area.

**Processing Rule:** Daily output per area (line E4.4) divided by the total daily output of all areas and own sources.

**Field Type:** Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.12</b>	<b>Total</b>	<b>nr</b>	<b>-</b>
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**Data Definition:** The proportion of Total Distribution Input produced in each area.

**Processing Rule:** Sum of E4.8 to E4.11

**Field Type:** Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.13</b>	<b>Peak demand - peak to average ratio</b>	<b>nr</b>	<b>Odp</b>
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**Data Definition:** Average daily volume put into supply in peak seven day period in year (peak year of preceding five years)/average daily volume of water put into supply in that year.

**Processing Rule:** Input field

**Field Type:** Input

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.14</b>	<b>Average pumping head - resources and treatment</b>	<b>m</b>	<b>1dp</b>
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**Data Definition:** Average pumping head for resource and treatment. See guidance on how pumping head is calculated.

**Processing Rule:** Input field

**Field Type:** Input

**Previous References:** Ofwat 07 Ref: 

T12,L5
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 WICS 06 Ref: 

E4.14
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<b>E4.15</b>	<b>Power</b>	<b>£m</b>	<b>3dp</b>
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**Data Definition:** Energy costs as defined in M18W.2 but only including 'Resources and Treatment' and split by operational areas.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: 

T21,L2
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 WICS 06 Ref: 

E1.2
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<b>E4.16</b>	<b>Service charges by SEPA</b>	<b>£m</b>	<b>3dp</b>
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**Data Definition:** Service charges as defined in M18W.5 but only including 'Resources and Treatment' and split by operational areas.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: 

T21,L7
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 WICS 06 Ref: 

E1.6
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<b>E4.17</b>	<b>Total direct costs</b>	<b>£m</b>	<b>3dp</b>
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**Data Definition:** Direct costs as defined in M18W.32 but only including 'Resources and Treatment' and split by operational areas.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: 

T21,L10
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 WICS 06 Ref: 

E1.9
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<b>E4.18</b>	<b>General and support costs</b>	<b>£m</b>	<b>3dp</b>
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**Data Definition:** General and support costs as defined in M18W.33 but only including 'Resources and Treatment' and split by operational areas.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: 

T21, L11
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 WICS 06 Ref: 

E1.10 + E1.11
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<b>E4.19</b>	<b>Functional expenditure</b>	<b>£m</b>	<b>3dp</b>
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**Data Definition:** Functional expenditure as described in M18W.34 but only including 'Resources and Treatment' and split by operational areas.

**Processing Rule:** Sum of E4.17 and E4.18

**Field Type:** Calculated

**Previous References:** Ofwat 07 Ref: 

T21, L12
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 WICS 06 Ref: 

E1.12
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<b>E4.20</b>	<b>Simple Disinfection</b>	<b>nr, Ml/d, £m</b>	<b>0dp, 3dp, 3dp</b>
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**Data Definition:** Number of treatment works, average distribution input and direct costs derived from works with simple disinfection.

**Processing Rule:** Column 'Total Proportion of D.I.' divides distribution input from 'simple treatment' works by the total distribution input (calculated in E4.26)

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: 

T12, L6
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 WICS 06 Ref: 

E4.17
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<b>E4.21</b>	<b>W1</b>	<b>nr, Ml/d, £m</b>	<b>0dp, 3dp, 3dp</b>
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**Data Definition:** Number of works, average distribution input and operating costs (direct and general & support) for works in category W1.

**Processing Rule:** Column 'Total Proportion of D.I.' divides distribution input from W1 treatment works by the total distribution input (calculated in E4.26)

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: 

T12, L7
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 WICS 06 Ref: 

E4.18
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<b>E4.22</b>	<b>W2</b>	<b>nr, Ml/d, £m</b>	<b>0dp, 3dp, 3dp</b>
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**Data Definition:** Number of works and average distribution input and operating costs (direct and general & support) for works in category W2.

**Processing Rule:** Column 'Total Proportion of D.I.' divides distribution input from W2 treatment works by the total distribution input (calculated in E4.26)

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: 

T12, L8
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 WICS 06 Ref: 

E4.19
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<b>E4.23</b>	<b>W3</b>	<b>nr, Ml/d, £m</b>	<b>0dp, 3dp, 3dp</b>
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**Data Definition:** Number of works and average distribution input and operating costs (direct and general & support) for works in category W3.

**Processing Rule:** Column 'Total Proportion of D.I.' divides distribution input from W3 treatment works by the total distribution input (calculated in E4.26)

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: 

T12, L9
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 WICS 06 Ref: 

E4.20
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<b>E4.24</b>	<b>W4</b>	<b>nr, Ml/d, £m</b>	<b>0dp, 3dp, 3dp</b>
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**Data Definition:** Number of works and average distribution input and operating costs (direct and general & support) for works in category W4.

**Processing Rule:** Column 'Total Proportion of D.I.' divides distribution input from W4 treatment works by the total distribution input (calculated in E4.26)

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: 

T12, L10
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 WICS 06 Ref: 

E4.21
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<b>E4.25</b>	<b>Total numbers of works</b>	<b>nr</b>	<b>0dp</b>
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**Data Definition:** Total number of treatment works.

**Processing Rule:** Sum of E4.20 to E4.24

**Field Type:** Calculated

**Previous References:** Ofwat 07 Ref: 

T12, L12
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 WICS 06 Ref: 

E4.22
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<b>E4.26</b>	<b>Total distribution input</b>	<b>MI/d</b>	<b>-</b>
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**Data Definition:** The distribution input for all treatment categories.

**Processing Rule:** Sum of E4.20 to E4.24

**Field Type:** Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.27</b>	<b>Total Operating costs</b>	<b>£m</b>	<b>3dp</b>
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**Data Definition:** Total operating costs (direct and general & support) associated with water treatment works.

**Processing Rule:** Sum of E4.20 to E4.24

**Field Type:** Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.28</b>	<b>Size band &lt;=1 MI/d</b>	<b>nr, 0/1, £m</b>	<b>0dp, 0/1, 3dp</b>
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**Data Definition:** Total number of works and proportion of distribution input derived from works falling into size band <=1 M/l. The total direct costs and general and support costs, as defined in RAR 4 for Table M18W, for works falling into size band <=1 M/l.

**Processing Rule:** Input field

**Field Type:** Input

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.29</b>	<b>Size band &gt;1 - &lt;=2.5 Ml/d</b>	<b>nr, 0/1, £m</b>	<b>Odp, 0/1, 3dp</b>
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**Data Definition:** Total number of works and proportion of distribution input derived from works falling into size band >1 -<=2.5 M/d. The total direct costs and general and support costs, as defined in RAR 4 for Table M18W, for treatment works size band >1 Ml/d to <= 2.5 Ml/d.

**Processing Rule:** Input field

**Field Type:** Input

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.30</b>	<b>Size band &gt;2.5 - &lt;=5 Ml/d</b>	<b>nr, 0/1, £m</b>	<b>Odp, 0/1, 3dp</b>
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**Data Definition:** Total number of works and proportion of distribution input derived from works falling into size band >2.5 -<= 5 M/d. The total direct costs and general and support costs, as defined in RAR 4 for Table M18W, for treatment works size band >2.5 Ml/d to <= 5 Ml/d.

**Processing Rule:** Input field

**Field Type:** Input

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.31</b>	<b>Size band &gt;5 - &lt;=10 Ml/d</b>	<b>nr, 0/1, £m</b>	<b>Odp, 0/1, 3dp</b>
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**Data Definition:** Total number of works and proportion of distribution input derived from works falling into size band >5 - <= 10 M/d. The total direct costs and general and support costs, as defined in RAR 4 for Table M18 W, for treatment works size band 5 Ml/d to <= 10 Ml/d.

**Processing Rule:** Input field

**Field Type:** Input

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.32</b>	<b>Size band &gt;10 - &lt;=25 Ml/d</b>	<b>nr, 0/1, £m</b>	<b>Odp, 0/1, 3dp</b>
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**Data Definition:** Total number of works and proportion of distribution input derived from works falling into size band >10 -<=25 M/d. The total direct costs and general and support costs, as defined in RAR 4 for Table M18 W, for treatment works size band >10 Ml/d to <= 25 Ml/d.

**Processing Rule:** Input field

**Field Type:** Input

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.33</b>	<b>Size band &gt;25 - &lt;=50 Ml/d</b>	<b>nr, 0/1, £m</b>	<b>0dp, 0/1, 3dp</b>
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**Data Definition:** Total number and proportion of distribution input derived from works falling into size band >50 -<=100 M/d. The total direct costs and general and support costs, as defined in RAR 4 for Table M18 W, for treatment works size band >50 Ml/d to <= 100 Ml/d.

**Processing Rule:** Input field

**Field Type:** Input

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.34</b>	<b>Size band &gt;50 - &lt;=100 Ml/d</b>	<b>nr, 0/1, £m</b>	<b>0dp, 0/1, 3dp</b>
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**Data Definition:** Total number and proportion of distribution input derived from works falling into size band >50 -<=100 M/d. The total direct costs and general and support costs, as defined in RAR 4 for Table M18 W, for treatment works size band >50 Ml/d to <= 100 Ml/d.

**Processing Rule:** Input field

**Field Type:** Input

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.35</b>	<b>Size band &gt;100 - &lt;=175 Ml/d</b>	<b>nr, 0/1, £m</b>	<b>Odp, 0/1, 3dp</b>
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**Data Definition:** Total number of works and proportion of distribution input derived from works falling into size band >100 - <=175 M/d. The total direct costs and general and support costs, as defined in RAR 4 for Table M18 W, for treatment works size band >100 Ml/d to <= 175 Ml/d.

**Processing Rule:** Input field

**Field Type:** Input

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.36</b>	<b>Size band &gt;175 Ml/d</b>	<b>nr, 0/1, £m</b>	<b>Odp, 0/1, 3dp</b>
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**Data Definition:** Total number of works and proportion of distribution input derived from works falling into size band > 175 M/d. The total direct costs and general and support costs, as defined in RAR 4 for Table M18 W, for treatment works size band >175 Ml/d.

**Processing Rule:** Input field

**Field Type:** Input

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.37</b>	<b>Total number of works</b>	<b>nr</b>	<b>Odp</b>
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**Data Definition:** Total number of treatment works for all size bands.

**Processing Rule:** The sum of lines E4.28 to E4.36

**Field Type:** Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.38</b>	<b>Proportion of distribution input - total</b>	<b>nr</b>	<b>-</b>
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**Data Definition:** Total proportion of distribution input by all size bands.

**Processing Rule:** The sum of lines E4.28 to E4.36

**Field Type:** Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

<b>E4.39</b>	<b>Total operating costs</b>	<b>£m</b>	<b>3dp</b>
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**Data Definition:** The total direct costs and general and support costs, as defined in RAR 4 for Table M18 W for treatment works.

**Processing Rule:** The sum of lines E4.28 to E4.36

**Field Type:** Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref: