love every drop
anglianwater

Revised Draft WRMP24
Technical Document

# Water Resource Zone summaries

August 2023

# 1. Introduction

## 1.1 About our company

Anglian Water is the largest water and wastewater company in England and Wales geographically, covering 20% of the land area. We operate in the East of England, the driest region in the UK, receiving two-thirds of the national average rainfall each year; that's approximately 600mm.
Our region has over 3,300km of rivers and is home to the UK's only wetland national park, the Norfolk Broads. Between 2011 and 2021, our region experienced the highest population increase in England. Despite this, we are still putting less water into our network than we did in 1989.

## 1.2 Planning for the long term

Our company Purpose is ***"to bring environmental and social prosperity to the region we serve through our commitment to Love Every Drop"***.
This purpose is at the heart of our business, having been enshrined in our Articles of Association in 2019. Central to delivering this purpose is planning for the long term; one of the strategic planning frameworks we use to achieve this is the Water Resources Management Plan (WRMP), which details how we will ensure resilient water supplies to our customers over the next 25 years. A WRMP looks for low regret investments for our region, giving flexibility to adapt to future challenges and opportunities such as technological advances, climate change, demand variations, and abstraction reductions.

## 1.3 What is a Water Resources Management Plan

We produce a WRMP every five years. It is a statutory document that sets out how a sustainable and secure supply of clean drinking water will be maintained for our customers. Crucially it takes a long-term view over 25 years, allowing us to plan an affordable, sustainable pathway that provides benefit to our customers, society and the environment.
Our previous WRMP, WRMP19, had an ambitious twin track strategy, combining an industry leading smart meter roll out and leakage ambition with a strategic pipeline across our region, bringing water from areas of surplus to areas of deficit.
This WRMP focusses on the period 2025 to 2050, and is known as WRMP24. We have developed it by following the Water Resources Planning Guideline (WRPG), as well as other relevant guidance, in order to meet statutory requirements.

## 1.4 Developing our WRMP

Our WRMP24 has been progressed following processes detailed in the WRPG. We start by determining the extent of the challenges we face between 2025 and 2050.
We achieve this by developing forecasts to establish the amount of water available to use (supply forecast) and the amount of water needed (demand forecast) in our region.
When these forecasts are combined, a baseline supply-demand balance is created. This tells us whether we have a surplus of water or a deficit, establishing our water needs for the planning period. An appraisal for both demand management options and supply-side options is undertaken.
We environmentally assess both demand management and supply-side options so we can understand their potential environmental impacts and what could be put in place to mitigate them.
The next step is for the water savings associated with the chosen demand management options to be added into our baseline supply-demand balance to determine if our region's water needs are met. If the demand management options savings do not solve the need, supply-side options are added into the modelling process and solution development.

## 1.5 Best value plan

To ensure we developed the right solution for our region's water needs, we have focussed on 'best value'. To us, best value is looking beyond cost and seeking to deliver a benefit to customers and society, as well as the environment, whilst listening and acting on the views of our customers and stakeholders.

## 1.6 Our revised draft WRMP24

Our best value plan, the revised draft WRMP24, has been produced following a public consultation on our draft WRMP24. This consultation ran from December 2022 to March 2023.

## 1.7 Strategic context of the revised draft WRMP24

Our revised draft WRMP24 aligns with our Purpose, as well as internal and external strategic plans and initiatives. We have worked collaboratively with internal and external stakeholders, regulators and other water abstractors to achieve this.

## 1.8 Guide to our draft WRMP24 submission

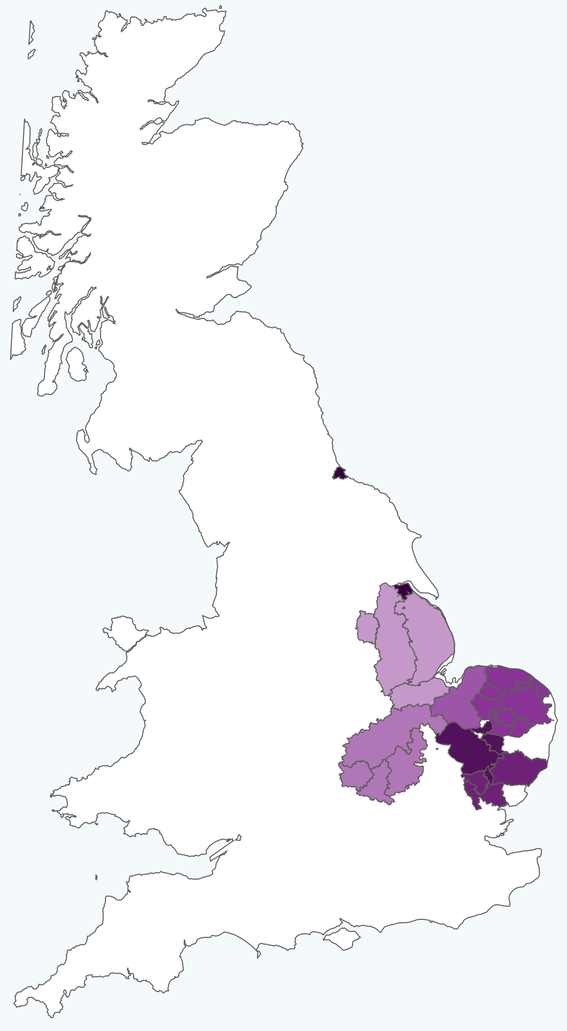
Our final submission comprises a non-technical customer and stakeholder summary, our main report and nine technical supporting documents and non-technical supporting documents.

# Introduction

**1.9** This report is concerned with the WRMP24 water resource zone summaries non-technical supporting document. The report summarises key supply and demand data for the 27 Water Resource Zones (WRZs) characterised in the WRMP24.
These WRZs have been grouped by region according to our problem characterisation analysis.

| Resource Zone | Area |
|---|---|
| Suffolk Ixworth | Cambridgshire & West Suffolk |
| Suffolk Sudbury | Cambridgshire & West Suffolk |
| Suffolk Thetford | Cambridgshire & West Suffolk |
| Suffolk West & Cambs | Cambridgshire & West Suffolk |
| Essex Central | East Suffolk & Essex |
| Essex South | East Suffolk & Essex |
| Suffolk East | East Suffolk & Essex |
| Fenland | Fenland |
| Hartlepool | Hartlepool |
| Lincolnshire Bourne | Lincolnshire & Nottinghamshire |
| Lincolnshire Central | Lincolnshire & Nottinghamshire |
| Lincolnshire East | Lincolnshire & Nottinghamshire |
| Lincolnshire Retford and Gainsborough | Lincolnshire & Nottinghamshire |
| Norfolk Aylsham | Norfolk |
| Norfolk Bradenham | Norfolk |
| Norfolk East Dereham | Norfolk |
| Norfolk East Harling | Norfolk |
| Norfolk Happisburgh | Norfolk |
| Norfolk Harleston | Norfolk |
| Norfolk North Coast | Norfolk |
| Norfolk Norwich & the Broads | Norfolk |
| Norfolk Wymondham | Norfolk |
| Ruthamford Central | Ruthamford |
| Ruthamford North | Ruthamford |
| Ruthamford South | Ruthamford |
| Ruthamford West | Ruthamford |

Anglian Water WRMP24 water resource zones



# 2. Strategic Overview

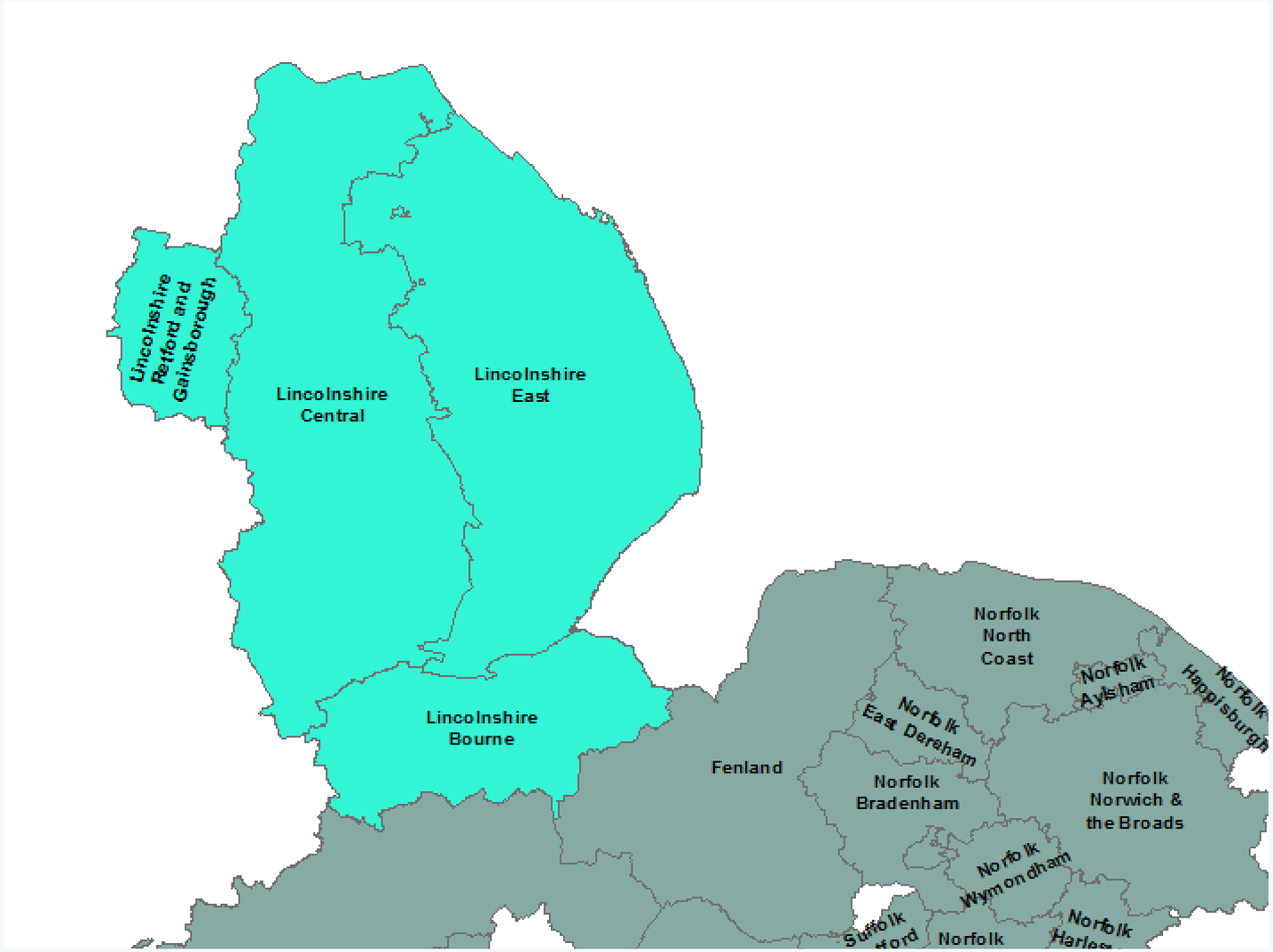
Lincolnshire & Nottinghamshire

## 2.1Strategic risk and issues

Lincolnshire and Nottinghamshire benefit from additional connectivity provided by our AMP7 strategic grid and associated investments. Without mitigation, there is potential for future sustainability reductions to cause large deficits in Environmental Destination scenarios. Vulnerable catchments include:

- Idle and Torne
- Louth, Grimsby and Ancholme
- Lower Trent & Erewash
- Steeping Great Eau and Long Eau
- Welland
- Witham

Figure 1 Problem Characterisation Area




Choose area

| | | | |
|---|---|---|---|
| Cambridgshire & West Suffolk | Fenland | Lincolnshire & Nottinghamshire | Ruthamford |
| East Suffolk & Essex | Hartlepool | Norfolk | |

# 3. Deployable Output summary
## DYAA

### Lincolnshire Bourne

**3.1 Resource Zone geography: Lincolnshire Bourne:**
The Bourne WRZ covers an area of 1087 sq. km and lies to the south west of the Wash. It is based on the supply systems for Bourne, Spalding and Stamford. Water is abstracted from groundwater sources in the Lincolnshire Limestone aquifer.

**3.2**
Baseline deployable output (including 1:500 drought): *42.5 Ml/d*

Deployable output reductions

Restoring sustainable abstraction (recent actual average): *-2.6* Ml/d

Reductions to achieve environmental destination (BAU+): *-20.7 Ml/d* by 2040.

Climate change: 0.0 Ml/d by 2050.

Baseline deployable output reduces by a total of *-23.3* Ml/d by 2050 a reduction of 54.8%.

**Table 3: supply characteristics (all values are Ml/d)**

| | 2029-30 (end of AMP8) | 2034-35 (end of AMP9) | 2039-40 (end of AMP10) | 2044-45 (end of AMP11) | 2049-50 (end of AMP12) |
|---|---|---|---|---|---|
| DO pre forecast changes | 42.5 | 42.5 | 42.5 | 42.5 | 42.5 |
| Change in DO due to climate change | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DO reductions to restore sustainable abstraction | -2.2 | -2.6 | -2.6 | -2.6 | -2.6 |
| DO reductions for Environmental Destination | 0.0 | 0.0 | 0.0 | -20.7 | -20.7 |
| Change in DO from drought measures | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Final DO | 40.3 | 39.9 | 39.9 | 19.2 | 19.2 |
| Raw water losses (-ve) | -0.8 | -0.8 | -0.8 | -0.8 | -0.8 |
| Outage Allowance (-ve) | -0.3 | -0.3 | -0.3 | -0.3 | -0.3 |
| WAFU (own sources) | 39.2 | 38.8 | 38.8 | 18.1 | 18.1 |
| Net Transfers | 4.3 | 6.6 | 4.1 | 24.3 | 24.0 |
| Other benefits | 2.17 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Water Available for Use | 45.7 | 45.4 | 42.9 | 42.4 | 42.1 |

**3.3** The baseline Deployable Output data presented in this section represents the Environment Agency's preferred sustainability reduction licence cap scenario. This includes recent actual average caps to time limited licences in 2022-24 and caps to all other permanent licences by 2030. The impact of 1:500 drought resilience has also been applied from 2025 rather than the preferred scenario of 2039/2040. These factors apply to the baseline forecast only. For the final plan forecast we have applied our best value scenario for licence caps, which was developed following an iterative process to deliver licence caps as early as possible. The transition to 1:500 drought resilience occurs in 2039/40 in the final plan forecast.
Further information is available in the WRMP24 Decision Making technical supporting document, section 6.

Data source: revised draft WRMP24 Tables submitted to the EA autumn 2023

# 4. Population & Housing

## Lincolnshire Bourne

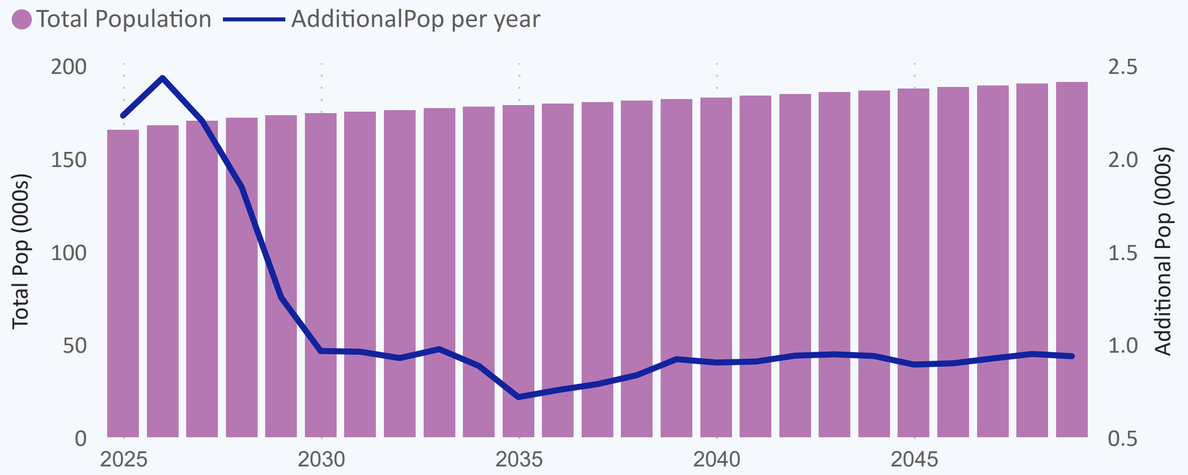
Lincolnshire Bourne

**4.1** Over the WRMP period, population in **Lincolnshire Bourne** is set to increase from **165331** in 2025 to **190985** in 2049-50 - this is an increase of **15.5 %** over the 25 years.

**Table 4a: Population totals (cumulative) by AMP**

| Year | Total Population (000s) |
|---|---|
| 2029-30 (end of AMP8) | 173.059 |
| 2034-35 (end of AMP9) | 177.762 |
| 2039-40 (end of AMP10) | 181.767 |
| 2044-45 (end of AMP11) | 186.393 |
| 2049-50 (end of AMP12) | 190.985 |

**Figure 2: Total Resource Zone Population**

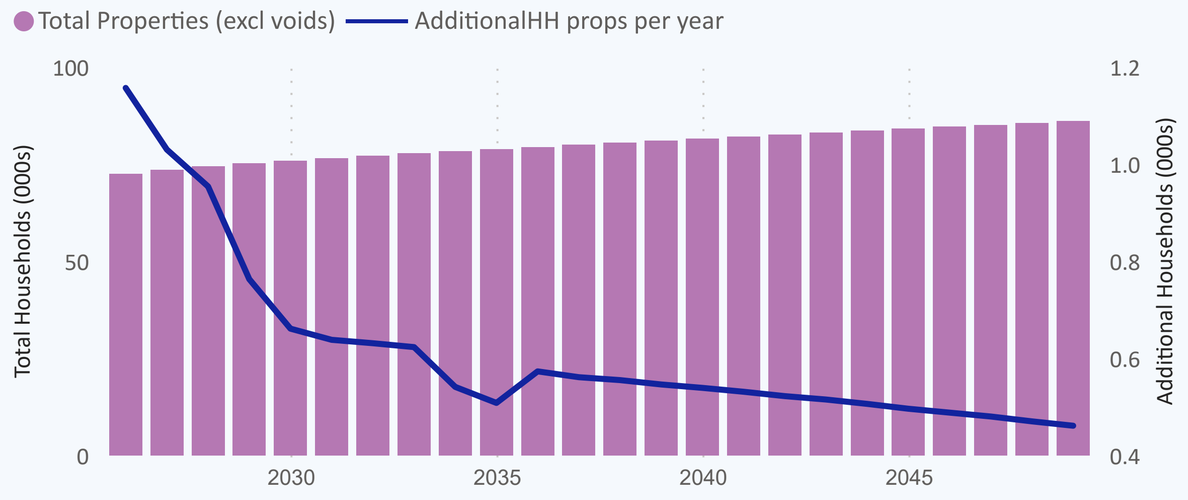



**4.2** Over the WRMP period, property numbers in **Lincolnshire Bourne** are set to increase from **71332** in 2025 to **86081** in 2049-50 - this is an increase of **20.7 %** over the 25 years.

**Table 4b: Property totals (cumulative) by AMP**

| Year | Total Properties- excl voids (000s) |
|---|---|
| 2029-30 (end of AMP8) | 75.236 |
| 2034-35 (end of AMP9) | 78.330 |
| 2039-40 (end of AMP10) | 81.073 |
| 2044-45 (end of AMP11) | 83.686 |
| 2049-50 (end of AMP12) | 86.081 |

**Figure 3: Total Resource Zone Properties (excl. voids)**



# 5. Baseline Supply Demand Balance
# DYAA

## Lincolnshire Bourne

Lincolnshire Bourne

**Figure 4: Lincolnshire Bourne baseline supply demand balance to 2050 for Dry Year Annual Average conditions**

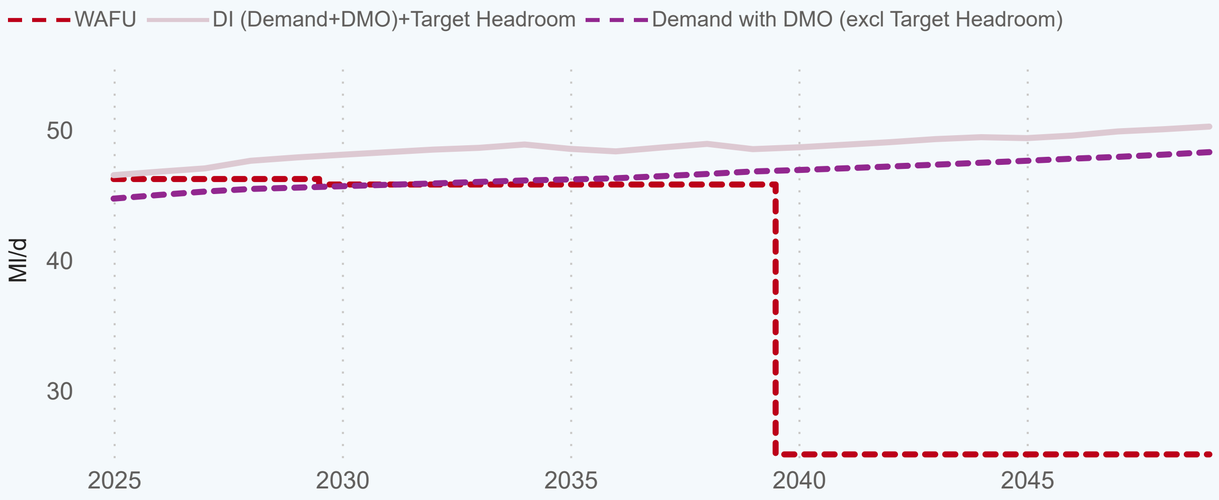



**Table 5a: Baseline supply demand balance 2025 - 2050 for DYAA conditions**

| | 2025-26 (start of AMP8) | 2029-30 (end of AMP8) | 2034-35 (end of AMP9) | 2039-40 (end of AMP10) | 2044-45 (end of AMP11) | 2049-50 (end of AMP12) |
|---|---|---|---|---|---|---|
| Water Available For Use | 39.2 | 39.2 | 38.8 | 38.8 | 18.1 | 18.1 |
| Net Transfers | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| Total Water Available For Use | 46.2 | 46.2 | 45.8 | 45.8 | 25.1 | 25.1 |
| Distribution Input | 44.7 | 45.6 | 46.1 | 46.8 | 47.5 | 48.3 |
| Target Headroom | 1.8 | 2.3 | 2.8 | 1.7 | 2.0 | 2.0 |
| Supply Demand Balance | -0.3 | -1.7 | -3.1 | -2.7 | -24.3 | -25.1 |

**Table 5b: Baseline demand forecast (without preferred demand management options)**

| | 2025-26 (start of AMP8) | 2029-30 (end of AMP8) | 2034-35 (end of AMP9) | 2039-40 (end of AMP10) | 2044-45 (end of AMP11) | 2049-50 (end of AMP12) |
|---|---|---|---|---|---|---|
| Water delivered measured household | 19.4 | 20.6 | 21.7 | 22.8 | 23.8 | 24.5 |
| Water delivered unmeasured household | 4.0 | 3.4 | 2.9 | 2.5 | 2.1 | 2.1 |
| Total Leakage | 6.2 | 6.3 | 6.3 | 6.3 | 6.3 | 6.4 |
| Water delivered measured non-household | 15.1 | 15.2 | 15.2 | 15.2 | 15.2 | 15.4 |
| Water delivered unmeasured non-household | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Distribution Input | 44.7 | 45.6 | 46.1 | 46.8 | 47.5 | 48.3 |

### 5.1 DYAA BL supply demand summary: Lincolnshire Bourne

Baseline Supply Demand Balance: This zone is expected to go into deficit by 2025 (under the preferred baseline scenario - as described in section 3.3).

- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 23.3 Ml/d in 2025 to 26.5 Ml/d in 2050, a percentage change of 13.8 %.
- Baseline Leakage: is forecast to change from 6.2 Ml/d in 2025 to 6.4 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 15.1 Ml/d to 15.4 Ml/d.
- Baseline Distribution Input: is expected to change from 44.7 Ml/d to 48.3 Ml/d by 2050.

**Nb.** 'Deficit' is one outcome of the calculation WAFU minus Distribution Input (including Target Headroom).

# 6. Baseline Supply Demand Balance DYCP

## Lincolnshire Bourne

Lincolnshire Bourne

**Figure 5: Lincolnshire Bourne baseline supply demand balance to 2050 for Dry Year Critical Period conditions**

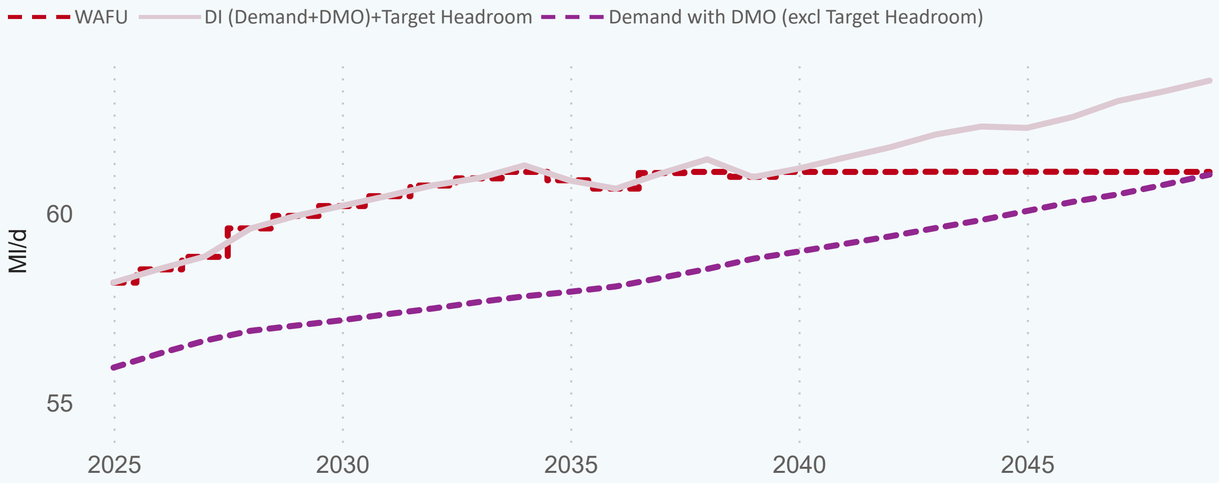



**Table 6a: Baseline supply demand balance 2025 - 2050 for DYCP conditions**

| | 2025-26 (start of AMP8) | 2029-30 (end of AMP8) | 2034-35 (end of AMP9) | 2039-40 (end of AMP10) | 2044-45 (end of AMP11) | 2049-50 (end of AMP12) |
|---|---|---|---|---|---|---|
| Water Available For Use | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 |
| Net Transfers | 4.1 | 5.8 | 7.0 | 6.9 | 7.0 | 7.0 |
| Total Water Available For Use | 58.2 | 59.9 | 61.1 | 61.0 | 61.1 | 61.1 |
| Distribution Input | 55.9 | 57.0 | 57.8 | 58.8 | 59.8 | 61.0 |
| Target Headroom | 2.2 | 2.9 | 3.5 | 2.2 | 2.5 | 2.5 |
| Supply Demand Balance | 0.0 | 0.0 | -0.2 | 0.0 | -1.2 | -2.4 |

**Table 6b: Baseline demand forecast with DYCP conditions (without preferred demand management options)**

| | 2025-26 (start of AMP8) | 2029-30 (end of AMP8) | 2034-35 (end of AMP9) | 2039-40 (end of AMP10) | 2044-45 (end of AMP11) | 2049-50 (end of AMP12) |
|---|---|---|---|---|---|---|
| Water delivered measured household | 25.5 | 27.2 | 28.6 | 30.2 | 31.6 | 32.7 |
| Water delivered unmeasured household | 5.4 | 4.7 | 4.0 | 3.4 | 3.0 | 2.9 |
| Total Leakage | 6.2 | 6.3 | 6.3 | 6.3 | 6.3 | 6.4 |
| Water delivered measured non-household | 18.7 | 18.9 | 18.9 | 18.8 | 18.9 | 19.1 |
| Water delivered unmeasured non-household | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Distribution Input | 55.9 | 57.0 | 57.8 | 58.8 | 59.8 | 61.0 |

### 6.1 DYCP BL supply demand summary: Lincolnshire Bourne

Baseline Supply Demand balance: This zone will go into deficit immediately

- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 30.9 Ml/d in 2025 to 35.6 Ml/d in 2050, a percentage change of 15.1 %.
- Baseline Leakage: is forecast to change from 6.2 Ml/d in 2025 to 6.4 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 18.7 Ml/d to 19.1 Ml/d.
- Baseline Distribution Input: is expected to change from 55.9 Ml/d to 61.0 Ml/d by 2050.

**Nb.** 'Deficit' is one outcome of the calculation WAFU minus Distribution Input (including Target Headroom).

# 7. Demand forecast and PCC

## Lincolnshire Bourne

Lincolnshire Bourne

**Figure 6: Lincolnshire Bourne DYAA DI with and without demand management strategy**

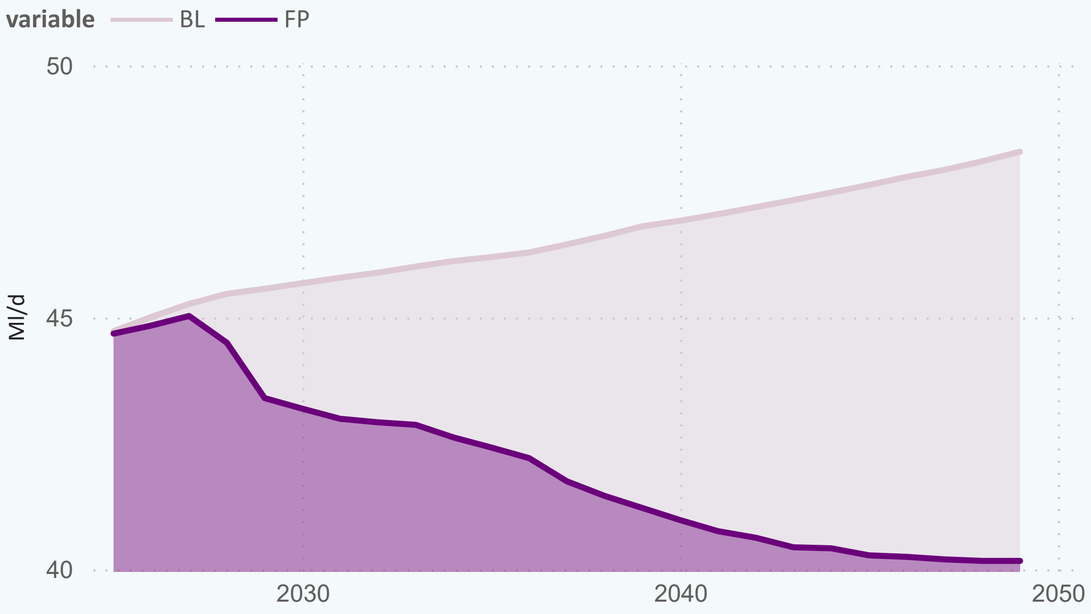



**Table 7a: Demand - baseline and final plan**

| variable | 2029-30 (end of AMP8) | 2034-35 (end of AMP9) | 2039-40 (end of AMP10) | 2044-45 (end of AMP11) | 2049-50 (end of AMP12) |
|---|---|---|---|---|---|
| BL | 45.6 | 46.1 | 46.8 | 47.5 | 48.3 |
| FP | 43.4 | 42.6 | 41.2 | 40.4 | 40.2 |

**7.2 Demand Lincolnshire Bourne** (see Table 7a)

Baseline demand is expected to increase from 44.7 (Ml/d) in 2025 to 48.3 (Ml/d) in 2050. With demand management options in place, demand is expected to be 40.2 (Ml/d).

**7.1 PCC Lincolnshire Bourne** (see Table 7b)

Per Capita Consumption (PCC) in the base year 2025/26 is 125.9 (l/h/d) measured and 200.7 (l/h/d) unmeasured.

The weighted average PCC (l/h/d) comes in at 134.1 (l/h/d) in 2025/26. This is forecast to fall to 108.0 (l/h/d) in the Final Plan forecast as demand management option savings are realised and customers switch from unmeasured to measured status

**Table 7b: DMO strategy Final Plan**

| | 2029-30 (end of AMP8) | 2034-35 (end of AMP9) | 2039-40 (end of AMP10) | 2044-45 (end of AMP11) | 2049-50 (end of AMP12) |
|---|---|---|---|---|---|
| BL demand forecast(DYAA) | 132.1 | 131.6 | 132.5 | 132.4 | 132.4 |
| FP demand forecast(DYAA) | 123.1 | 118.4 | 113.7 | 109.9 | 108.0 |
| % change BL to FP | -6.8% | -10.0% | -14.2% | -17.0% | -18.4% |

# 8. Demand management options

## Lincolnshire Bourne

Lincolnshire Bourne

### 8.1 Regional overview:

Across the entirety of the Anglian Water region our demand management strategy will comprise three strongly interlinked programs:

**Water metering program:**

- We intend to complete our current smart meter rollout which will replace our entire meter stock over 10 years (2 AMPs), noting that 1.1M smart meters will be installed across Anglian Water by 2025. The information resulting from 'smart metering' will help inform our customers regarding their water usage and will assist in our ability to influence this behaviour. It will also help with our ability to detect leakage, significantly reducing plumbing losses and customer supply pipe leaks.

**Leakage reduction**

- Our aim is to reduce leakage by more than 45Ml/d from 2025 to 2050 across the whole Anglian Water area, building upon our ambitious program of leakage reduction in AMP7 (14% reduction of more than 27Ml/d across the region by 2025).

**Water efficiency measures**

- New technologies and interventions will help promote the careful use of water. Additional water efficiency programs will include: the promotion of 'Smart' devices; further development of our Multi-utility web-portal; garden advice; support for vulnerable customers with plumbing loss and cspl; Community reward schemes. As part of our revised draft WRMP24 we have developed and included 'water efficiency visits' and leakage reduction measures for our Non-Household customers.

**Figure 7: DMO strategy Final Plan for Lincolnshire Bourne**

**For full chart key see table below**

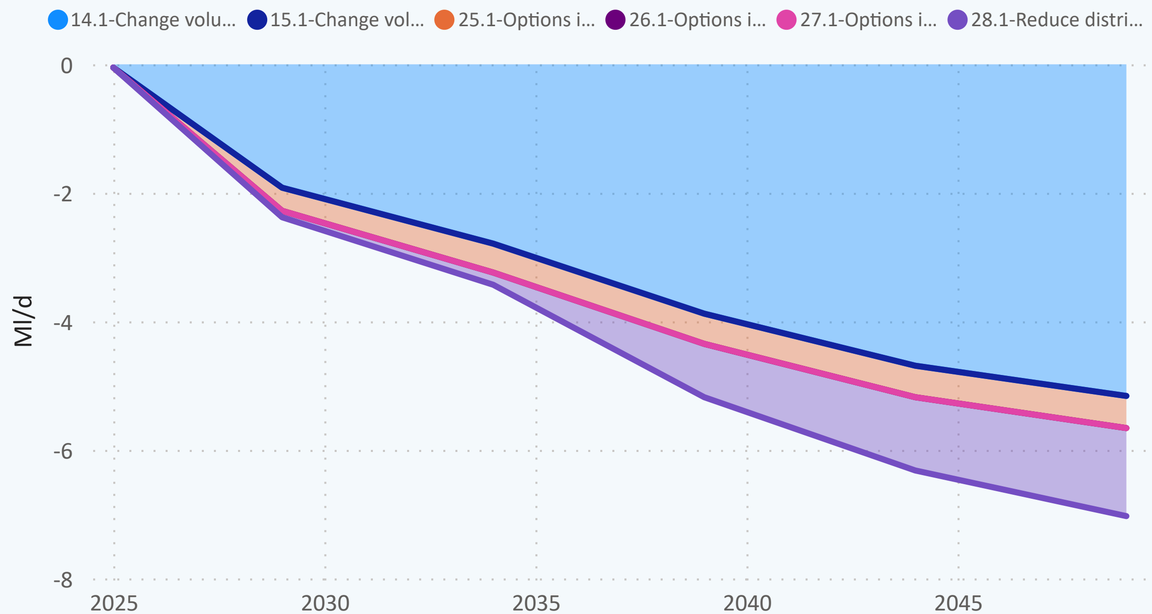



**Table 8: DMO strategy Final Plan for Lincolnshire Bourne**

| | 2029-30 (end of AMP8) | 2034-35 (end of AMP9) | 2039-40 (end of AMP10) | 2044-45 (end of AMP11) | 2049-50 (end of AMP12) |
|---|---|---|---|---|---|
| 14.1-Change volume delivered to measured households( -ve) | -1.9 | -2.8 | -3.9 | -4.7 | -5.2 |
| 15.1-Change volume delivered to unmeasured households( -ve) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25.1-Options impacting on measured Household - USPL ( -ve) | -0.4 | -0.5 | -0.5 | -0.5 | -0.5 |
| 26.1-Options impacting on unmeasured Household - USPL (-ve) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.1-Options impacting on Void properties - USPL (-ve) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28.1-Reduce distribution losses (-ve) | -0.1 | -0.2 | -0.8 | -1.1 | -1.4 |

# 9. Final Plan Supply Demand Balance
## DYAA

### Lincolnshire Bourne

Lincolnshire Bourne

**Figure 8: Lincolnshire Bourne final plan SDB to 2050 for Dry Year Annual Average conditions**

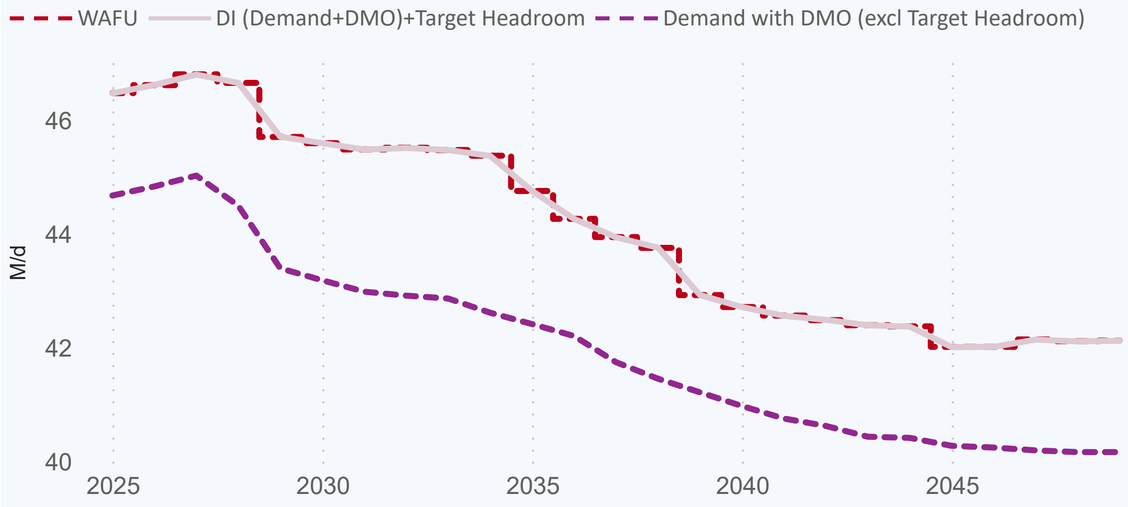



**Table 9a: final plan SDB to 2050 for Dry Year conditions**

| | 2025-26 (start of AMP8) | 2029-30 (end of AMP8) | 2034-35 (end of AMP9) | 2039-40 (end of AMP10) | 2044-45 (end of AMP11) | 2049-50 (end of AMP12) |
|---|---|---|---|---|---|---|
| Water Available For Use | 41.4 | 41.4 | 38.8 | 38.8 | 18.1 | 18.1 |
| Net Transfers | 5.1 | 4.3 | 6.6 | 4.1 | 24.3 | 24.0 |
| Total Water Available For Use | 46.5 | 45.7 | 45.4 | 42.9 | 42.4 | 42.1 |
| Distribution Input | 44.7 | 43.4 | 42.6 | 41.2 | 40.4 | 40.2 |
| Target Headroom | 1.8 | 2.3 | 2.8 | 1.7 | 2.0 | 2.0 |
| Supply Demand Balance | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

**Table 9b: Final Plan demand forecast for DYAA conditions (with preferred demand management options)**

| | 2025-26 (start of AMP8) | 2029-30 (end of AMP8) | 2034-35 (end of AMP9) | 2039-40 (end of AMP10) | 2044-45 (end of AMP11) | 2049-50 (end of AMP12) |
|---|---|---|---|---|---|---|
| Water delivered measured household | 19.3 | 18.7 | 18.9 | 18.9 | 19.1 | 19.3 |
| Water delivered unmeasured household | 4.0 | 3.4 | 2.9 | 2.5 | 2.1 | 2.1 |
| Total Leakage | 6.2 | 5.8 | 5.7 | 5.0 | 4.7 | 4.5 |
| Water delivered measured non-household | 15.1 | 15.0 | 14.7 | 14.3 | 14.0 | 13.8 |
| Water delivered unmeasured non-household | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Distribution Input | 44.7 | 43.4 | 42.6 | 41.2 | 40.4 | 40.2 |

**9.1 DYAA FP supply demand summary: Lincolnshire Bourne**

The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 23.3 Ml/d in 2025 to 21.4 Ml/d in 2050, a percentage change of -8.2 %.
- Final Plan Leakage is forecast to change from 6.2 Ml/d in 2025 to 4.5 Ml/d by 2050.
- Final Plan Non-Household demand is expected to change from 15.1 Ml/d to 13.8 Ml/d.
- Final Plan Distribution Input is expected to change from 44.7 Ml/d to 40.2 Ml/d by 2050.

# 10. Final Plan Supply Demand Balance DYCP

## Lincolnshire Bourne

Lincolnshire Bourne

**Figure 9: Lincolnshire Bourne baseline supply demand balance to 2050 for Dry Year Critical Period conditions**

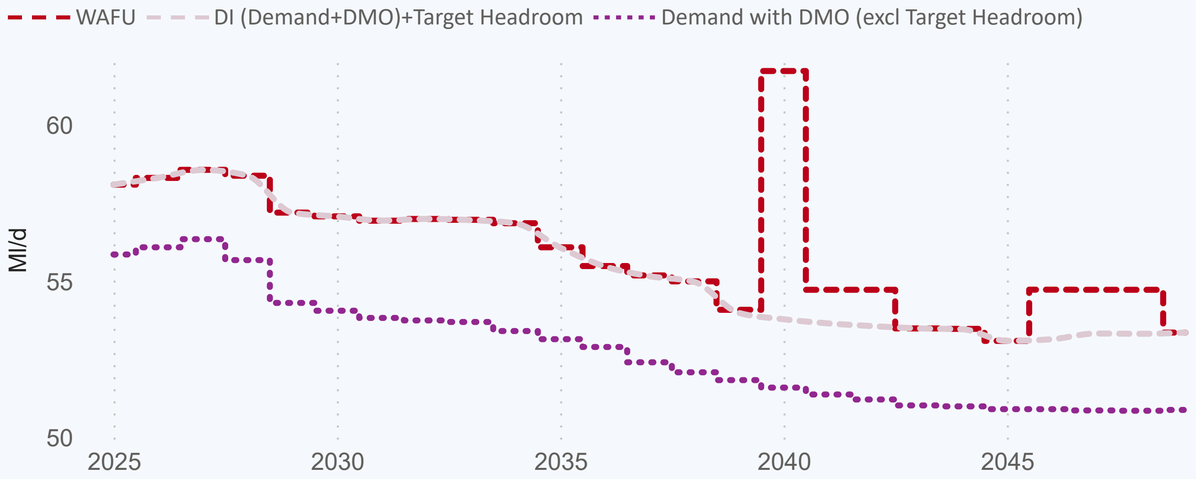



**Table 10a: Final Plan supply demand balance 2025 - 2050 for DYCP conditions**

| | 2025-26 (start of AMP8) | 2029-30 (end of AMP8) | 2034-35 (end of AMP9) | 2039-40 (end of AMP10) | 2044-45 (end of AMP11) | 2049-50 (end of AMP12) |
|---|---|---|---|---|---|---|
| Water Available For Use | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 |
| Net Transfers | 4.0 | 3.1 | 2.8 | 0.0 | -0.6 | -0.7 |
| Total Water Available For Use | 58.1 | 57.2 | 56.9 | 54.1 | 53.5 | 53.4 |
| Distribution Input | 55.9 | 54.3 | 53.4 | 51.8 | 51.0 | 50.9 |
| Target Headroom | 2.2 | 2.9 | 3.4 | 2.2 | 2.5 | 2.5 |
| Supply Demand Balance | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 |

**Table 10b: Final Plan demand forecast for DYCP conditions (with preferred demand management options)**

| | 2025-26 (start of AMP8) | 2029-30 (end of AMP8) | 2034-35 (end of AMP9) | 2039-40 (end of AMP10) | 2044-45 (end of AMP11) | 2049-50 (end of AMP12) |
|---|---|---|---|---|---|---|
| Water delivered measured household | 25.4 | 24.7 | 25.1 | 25.2 | 25.5 | 25.9 |
| Water delivered unmeasured household | 5.4 | 4.7 | 4.0 | 3.4 | 3.0 | 2.9 |
| Total Leakage | 6.2 | 5.8 | 5.7 | 5.0 | 4.7 | 4.5 |
| Water delivered measured non-household | 18.7 | 18.7 | 18.2 | 17.7 | 17.4 | 17.2 |
| Water delivered unmeasured non-household | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Distribution Input | 55.9 | 54.3 | 53.4 | 51.8 | 51.0 | 50.9 |

### 10.1 DYCP BL supply demand summary: Lincolnshire Bourne

The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 30.8 Ml/d in 2025 to 28.8 Ml/d in 2050, a percentage change of -6.7 %.
- Final Plan Leakage: is forecast to change from 6.2 Ml/d in 2025 to 4.5 Ml/d by 2050
- Final Plan Non-Household demand: is expected to change from 18.7 Ml/d to 17.2 Ml/d.
- Final Plan Distribution Input: is expected to change from 55.9 Ml/d to 50.9 Ml/d by 2050.

# 11. Supply Side Strategy

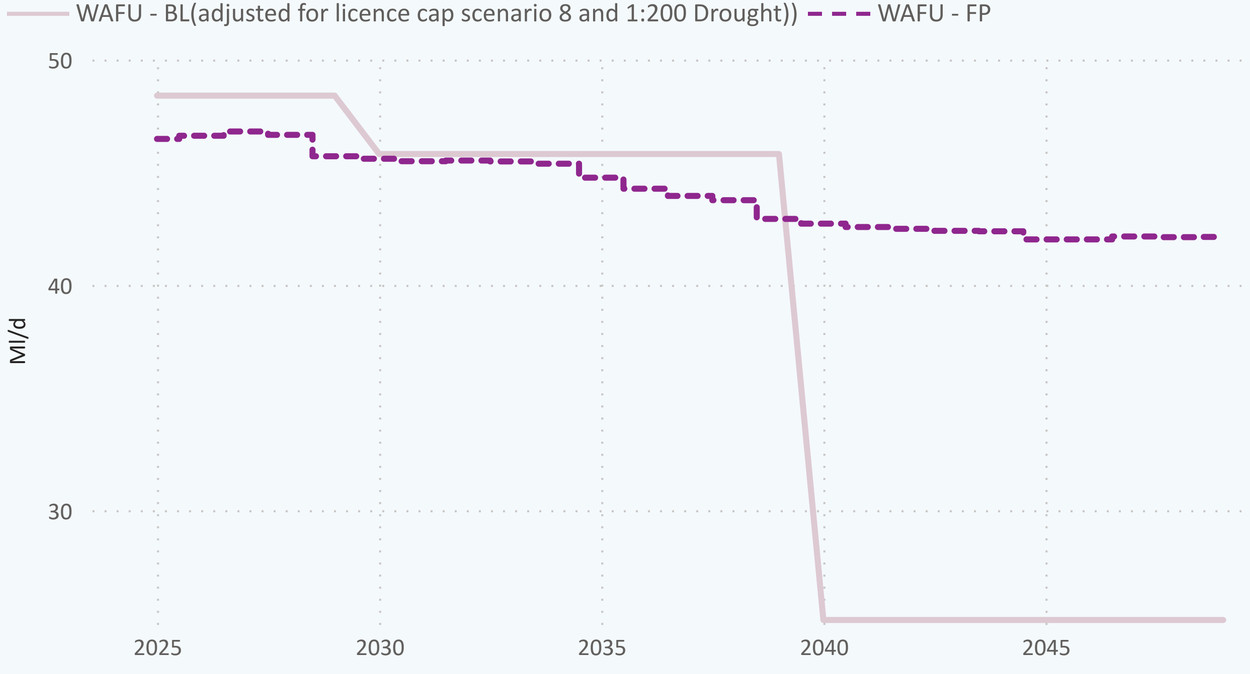
## Lincolnshire Bourne

Lincolnshire Bourne

**Table 11a: Total Water Available for use Baseline and Final Plan**

| | 2029-30 (end of AMP8) | 2034-35 (end of AMP9) | 2039-40 (end of AMP10) | 2044-45 (end of AMP11) | 2049-50 (end of AMP12) |
|---|---|---|---|---|---|
| WAFU - BL | 48.4 | 45.8 | 45.8 | 25.1 | 25.1 |
| WAFU - FP | 45.7 | 45.4 | 42.9 | 42.4 | 42.1 |

**Figure 10 Water Available for Use (WAFU) - baseline (BL) and final plan (FP)**




**11.1 Supply side strategy options.**

For details on the feasible options list for Lincolnshire Bourne WRZ please refer to the Supply-Side Option Development technical supporting document.

**Table11b: Preferred supply side options**

| Option ID | First Option Name |
|---|---|
| EE03 | Adjustment to existing potable water export |
| EI04 | Adjustment to existing potable water import |
| LC04 | Adjustment for Licence cap scenario 8 |
| LNB1 | Ruthamford North to Bourne potable transfer (20 Ml/d) |

# 12. Non-Household consumption

## Lincolnshire Bourne

Lincolnshire Bourne

### 12.1 Non-Household demand  Lincolnshire Bourne

In 2025, 15.1 Ml/d of Non-Household demand (measured and unmeasured) is expected. In 2049 it is expected to be 13.8 Ml/d, which is a -8.72% change between the years.

**Figure 11: Non-Household demand forecast 2025-2050**

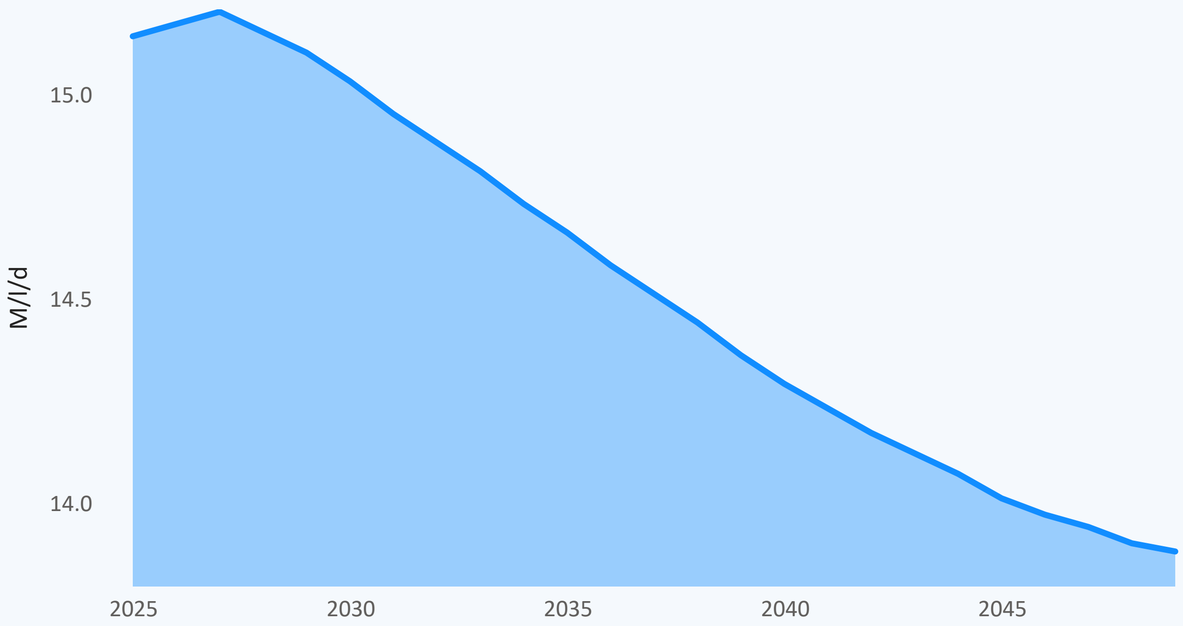



**Figure 12: % Non-Household modelled sectors within resource zone**