Revised Draft Water Resources Management Plan 2024

Annex 15: Investment Modelling Results

June 2024
Version 0.1

from Southern Water

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Glossary

AFW	Affinity Water
HAZ	Hampshire Andover Water Resource Zone
HKZ	Hampshire Kingsclere Water Resource Zone
HRZ	Hampshire Rural Water Resource Zone
HSE	Hampshire Southampton East Water Resource Zone
HSW	Hampshire Southampton West Water Resource Zone
HWZ	Hampshire Winchester Water Resource Zone
IOW	Isle of Wight Water Resource Zone
KME	Kent Medway East Water Resource Zone
KMW	Kent Medway West Water Resource Zone
KTZ	Kent Thanet Water Resource Zone
PWC	Portsmouth Water
SBZ	Sussex Brighton Water Resource Zone
SES	SES Water
SEW	South East Water
SHZ	Sussex Hastings Water Resource Zone
SNZ	Sussex North Water Resource Zone
SWZ	Sussex Worthing Water Resource Zone
T2ST	Thames to Southern Transfer
WRZ	Water Resource Zone

1 Introduction

This annex contains the options selected and their maximum Deployable Output benefit for the following two plans.

- Southern Water's Best Value Plan
- Southern Water's Least Cost Plan

2 Preferred Best Value Plan

2.1 Western area

2.1.1 Option selection and utilisation under NYAA scenario

Table 1: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Otterbourne WSW to PWC Source A (45Ml/d)	2041	2069	0	2041	2064	0	2042	0	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Otterbourne WSW (90Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Otterbourne WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HAZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HKZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HKZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HRZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HRZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSE): Candover (22Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSE): Lower Itchen	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	0	0	0	2073	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2036	2036	2036	2036	2036	2036	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	2040	0	0	2040	0	0	2040	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0	0	0	2050	0	0	2074	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (HSE-HWZ): Otterbourne WSW to Yew Hill WSW bi-directional (74Ml/d)	2040	2040	2053	2041	2040	2057	2041	2045	0
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	0	0	0	0	0	0	2040	0	0
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Budds Farm (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 2: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Otterbourne WSW to PWC Source A (45Ml/d)	45.0	1.6	0.0	45.0	2.3	0.0	45.0	0.0	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	1.5	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	14.3	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Otterbourne WSW (90Ml/d)	54.3	46.8	28.1	60.0	47.3	27.8	60.0	32.5	27.8
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Otterbourne WSW (21Ml/d)	1.0	1.0	11.7	1.0	1.1	14.4	1.0	12.8	10.4
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	95.0	18.0	18.0	94.8	18.0	18.0	94.9	18.0	14.3
Demand management (HAZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HKZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HRZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HRZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSE): Candover (22Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSE): Lower Itchen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSW): River Test (80Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	1.5	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	6.8	0.0	0.0	2.1	0.0	0.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HWZ): Otterbourne WSW to Yew Hill WSW bi-directional (74Ml/d)	62.2	8.3	10.8	58.6	8.7	11.9	54.5	3.9	0.0
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.1	4.4	4.4	4.5	4.5	4.5	5.0	4.5	4.5
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	22.5
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	8.7	11.0	8.7	8.7	11.0	8.7	8.5	10.8	8.5
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.9	4.6	4.6	7.4	4.7	4.7	7.3	4.7	4.7
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	26.6	7.3	7.7	24.2	6.9	6.2	28.8	11.2	2.3
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Budds Farm (60Ml/d)	60.0	60.0	28.1	60.0	60.0	27.8	60.0	38.5	27.8
Recycling (IOW): Sandown (8.5Ml/d)	8.5	6.8	1.6	8.5	6.3	1.6	8.5	1.6	1.6

2.1.2 Option selection and utilisation under 1:100 DYAA scenario

Table 3: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Otterbourne WSW to PWC Source A (45Ml/d)	2040	2044	0	2040	2043	0	2042	2069	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Otterbourne WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Otterbourne WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	2037	2037	2037	2037	2037	2037	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	0	0	0	2073	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2036	2036	2036	2036	2036	2036	2048	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0	0	0	2050	0	0	2074	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Otterbourne WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Budds Farm (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 4: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Otterbourne WSW to PWC Source A (45Ml/d)	45.0	14.2	0.0	45.0	14.9	0.0	45.0	4.2	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	1.5	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	13.7	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Otterbourne WSW (90Ml/d)	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Otterbourne WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	95.0	49.5	18.0	89.7	49.8	18.0	83.2	32.8	18.0
Demand management (HAZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HKZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HRZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSE): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (HSW): NEUBs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HWZ): NEUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (IOW): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - supply side (HSE): Candover (22Ml/d)	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
Drought option - supply side (HSE): Lower Itchen	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Drought option - supply side (HSW): River Test (80Ml/d)	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	6.7	0.0	0.0	2.0	0.0	0.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Otterbourne WSW to Yew Hill WSW bi-directional (74Ml/d)	24.4	22.3	22.3	21.5	21.5	21.5	26.6	26.6	26.6
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.8	4.8	4.8	7.2	4.8	4.8	7.1	4.9	4.9
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	60.0	39.7	33.9	57.0	40.5	33.6	54.5	37.7	37.6
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Budds Farm (60Ml/d)	60.0	52.3	23.9	60.0	51.3	20.0	53.9	40.0	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.4

2.1.3 Option selection and utilisation under 1:500 DYAA scenario

Table 5: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Otterbourne WSW to PWC Source A (45Ml/d)	2040	2040	0	2040	2040	0	2042	2063	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Otterbourne WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Otterbourne WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	0	0	0	2073	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2042	2042	2042	2042	2042	2042	2048	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0	0	0	2050	0	0	2074	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Otterbourne WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2042	2042	2042	2042	2042	2042	2042	2042	2042
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2035	2035	2035	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Budds Farm (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 6: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Otterbourne WSW to PWC Source A (45Ml/d)	45.0	18.9	0.0	45.0	21.9	0.0	45.0	17.4	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	6.9	0.0	0.0	5.0	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	8.2	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Otterbourne WSW (90Ml/d)	90.0	90.0	74.5	90.0	90.0	74.8	90.0	90.0	57.3
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Otterbourne WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	74.1	27.7	18.0	64.1	30.3	18.0	57.5	19.5	18.0
Demand management (HAZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HKZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HRZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSE): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (HSW): NEUBs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HWZ): NEUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (IOW): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - supply side (HSE): Candover (22Ml/d)	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
Drought option - supply side (HSE): Lower Itchen	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Drought option - supply side (HSW): River Test (80Ml/d)	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	6.7	0.0	0.0	2.0	0.0	0.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Otterbourne WSW to Yew Hill WSW bi-directional (74Ml/d)	21.8	21.8	21.8	21.8	21.8	21.8	21.8	24.8	21.8
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.6	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	15.4	12.4	9.4	15.5	12.4	9.4	15.2	12.1	9.1
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.8	4.2	3.4	7.2	4.2	3.4	7.1	4.1	3.3
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	58.0	30.1	33.9	47.4	29.6	33.4	37.4	41.0	37.9
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Budds Farm (60Ml/d)	60.0	60.0	32.6	60.0	60.0	21.5	60.0	49.5	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	8.5	1.6	8.5	8.5	1.6	8.5	8.5	1.6

2.1.4 Option selection and utilisation under 1:500 DYCP scenario

Table 7: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Otterbourne WSW to PWC Source A (45Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Otterbourne WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Otterbourne WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	2040	0	0	2040	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	0	0	0	2073	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2042	2042	2042	2042	2042	2042	2048	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0	0	0	2050	0	0	2074	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Otterbourne WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2042	2042	2042	2042	2042	2042	2042	2042	2042
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2040	2042	2042	2040	2042	2042	2040	2042	2042
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Budds Farm (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 8: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYCP planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Otterbourne WSW to PWC Source A (45Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	7.8	0.0	0.0	4.6	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	11.5	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Otterbourne WSW (90Ml/d)	69.0	61.1	58.6	69.0	61.9	59.4	69.0	52.5	46.0
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Otterbourne WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	56.8	16.6	18.0	47.5	15.7	18.0	43.8	18.0	18.0
Demand management (HAZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (HKZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): NEUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - demand side (HRZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): NEUBs	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
Drought option - demand side (HSW): NEUBs	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Drought option - demand side (HWZ): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (IOW): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Drought option - supply side (HSE): Candover (22Ml/d)	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
Drought option - supply side (HSE): Lower Itchen	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Drought option - supply side (HSW): River Test (80Ml/d)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	5.8	0.0	0.0	1.2	0.0	0.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Otterbourne WSW to Yew Hill WSW bi-directional (74Ml/d)	16.9	16.9	16.9	16.9	16.9	16.9	20.0	16.9	16.9
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.4	5.0	5.0	4.9	5.0	5.0	4.9	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	18.0	4.4	4.4	18.0	4.4	4.4	18.0	4.4	4.4
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	10.6	3.2	5.5	9.9	2.1	4.4	9.8	1.3	7.3
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	45.0	27.5	27.5	39.8	27.0	27.0	43.5	30.7	30.6
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Budds Farm (60Ml/d)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	1.6	1.6	8.5	1.6	1.6	8.5	1.6	1.6

2.2 Central area

2.2.1 Option selection and utilisation under NYAA scenario

Table 9: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2046	2071	2041	2052	0	2041	2065	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2040	2040	2041	2040	2041	2051	2040	2041	2070
Bulk import (SNZ): SES re-zoning (4Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2054	0	2040	2040	2041	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2041	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2051	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SBZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SNZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SWZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SWZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2040	2041	2051	2040	2041	2064	2040	2041	0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2041	0	0	2041	0	0	2041	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2040	0	2040	2040	0	2040	2040	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2041	0	0	2041	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	2063	0	0	2073	0	0	2058	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2046	0	0	2046	0	0	2049	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2046	0	0	2041	0	0	2048	0	0

Table 10: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	22.0	16.3	3.2	26.3	15.4	0.0	37.9	6.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	2.2
Bulk import (SNZ): SES re-zoning (4Ml/d)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	0.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	16.7	0.0	0.0	10.9	0.0	0.0	4.6	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	23.7	26.7	0.0	29.7	25.9	0.0	34.9	18.3	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	13.0	10.9	13.0	13.0	12.5	13.0	13.0	12.5
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	17.0	12.5	17.0	17.0	11.9	17.0	17.0	11.9
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	12.8	15.0	15.0	12.1	15.0	15.0	11.2
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	7.2	15.0	15.0	3.0
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	19.5	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

2.2.2 Option selection and utilisation under 1:100 DYAA scenario

Table 11: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (Southern Water Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2040	2069	2041	2042	0	2041	2046	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2034	2034	2034	2034	2034	2034	2034	2034	2034
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2054	0	2040	2040	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2041	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2051	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2051	0	0	0	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2041	0	2040	2041	0	2040	2041	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2062	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	2063	0	0	2073	0	0	2058	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2046	0	0	2046	0	0	2049	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2046	0	0	2041	0	0	2048	0	0

Table 12: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	38.4	32.3	3.9	29.2	31.3	0.0	33.9	20.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Drought option - demand side (SNZ): NEUBs	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Drought option - demand side (SWZ): NEUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	28.6	16.2	0.0	21.8	15.2	0.0	22.2	7.5	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	12.6	5.0	13.0	12.8	5.7	13.0	10.4	3.2
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	16.0	6.4	17.0	15.9	6.4	17.0	9.9	6.4
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	10.0	15.0	15.0	9.8	15.0	15.0	9.8
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	13.7	15.0	15.0	10.7
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	19.5	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

2.2.3 Option selection and utilisation under 1:500 DYAA scenario

Table 13: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	2040	0	0	0	0	0	0	0	0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2041	2042	2041	2042	2069	2041	2042	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2034	2034	2034	2034	2034	2034	2034	2034	2034
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2054	0	2040	2040	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2041	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2051	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2041	0	0	2074	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2040	0	2040	2040	0	2040	2041	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2051	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	2063	0	0	2073	0	0	2058	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2046	0	0	2046	0	0	2049	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2046	0	0	2041	0	0	2048	0	0

Table 14: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	40.0	40.0	12.6	40.0	40.0	1.5	40.0	20.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Drought option - demand side (SNZ): NEUBs	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Drought option - demand side (SWZ): NEUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	6.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	29.2	18.5	0.0	24.0	17.5	0.0	24.6	9.7	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	13.0	6.8	13.0	13.0	6.8	13.0	12.0	7.3
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	17.0	7.3	17.0	17.0	7.3	17.0	12.5	6.0
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	11.3	15.0	15.0	11.0	15.0	15.0	11.0
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	12.3
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	19.5	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

2.2.4 Option selection and utilisation under 1:500 DYCP scenario

Table 15: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2043	0	0	0	0	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2041	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2051	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2036	2036	2036	2036	2036	2036	2036	2036	2036
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2040	2040	2040	2040	2040	0	0	0	0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2051	2042	2042	2074	2042	2070	0	0	0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2042	0	0	2042	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	0	0	0	0	0	0	0	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2066	0	0	0	0	0	0	0	0
Supply-demand balance	2026	2026	2026	2026	2026	2026	2026	2026	2026
Total demand	2026	2026	2026	2026	2026	2026	2026	2026	2026
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0	0	0	0	0	0	0	0	0

Table 16: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYCP planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	2.6	3.1	0.7
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	7.7	0.0	0.0	0.0	0.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	4.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Drought option - demand side (SNZ): NEUBs	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Drought option - demand side (SWZ): NEUBs	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	8.9	2.4	2.3	1.2	1.5	0.0	0.0	0.0	0.0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	0.2	4.0	2.4	0.0	0.0	0.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	6.5	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	9.6	9.8	15.0	10.5	10.8	12.1	11.4	10.8
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	3.0	7.5	7.3	3.0	6.4	3.0	3.0	3.0	3.0
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Supply-demand balance	15.8	17.7	18.6	20.2	17.8	18.7	23.3	23.6	23.6
Total demand	120.4	110.5	110.5	110.4	110.4	110.4	102.9	102.9	101.2
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

2.3 Eastern area

2.3.1 Option selection and utilisation under NYAA scenario

Table 17: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	2075	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2058	0	0	2058	0	0	2057	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SHZ): Rye to SEW RZ8	2058	0	0	2051	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	2050	2050	2051	2051	2050	2051	2050	2050	2065
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (SHZ): SEW RZ8 to Rye	0	0	0	2050	2060	2075	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2046	2041	0	2046	2041	0	2046	2046	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2041	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	0	2070	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KME): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KME): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	2040	2040	0	2040	2040	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2057	0	0	2051	0	0	2059	0	0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	2036	2036	2036	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 18: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	9.4	0.0	0.0	5.4	0.0	0.0	5.8	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	12.1	20.0	20.0	17.9	20.0	20.0	20.0	20.0	8.5
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk export (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	7.0	3.0	5.2	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	10.0	5.1	0.0	8.2	4.8	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	18.0	16.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	6.0	0.0	0.0	9.5	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	20.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	4.0	18.2	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	3.5	15.8	6.6	3.5	15.8	3.9	13.7	14.0	3.5
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	42.5	44.7	26.2	42.9	41.8	23.2	44.7	40.1	22.1
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	6.6	6.6	6.6	7.2	6.6	6.6	8.8	6.6	6.6
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	13.2	14.0	14.0	12.7	14.0	14.0	10.7
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.9	3.3	0.0	2.5	2.8	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.3	0.0	0.0	15.3	0.0	0.0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	5.7	3.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

2.3.2 Option selection and utilisation under 1:100 DYAA scenario

Table 19: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	0	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2045	0	0	2045	0	0	2050	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2050	0	0	0	0	0	0	0	0
Bulk export (SHZ): Rye to SEW RZ8	2058	0	0	2051	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	2050	2051	2051	2050	2051	2050	2050	0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (SHZ): SEW RZ8 to Rye	0	0	0	0	0	2075	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2046	2041	0	2046	2041	0	2046	2046	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2041	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	0	2070	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0	0	0	0	0	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2036	2036	2036	2040	2040	2041	2040	2041	2042
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2057	0	0	2051	0	0	2059	0	0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	2041	2041	2046	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 20: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	10.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	20.0	14.0	5.6	20.0	20.0	13.9	15.9	0.0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk export (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	10.0	2.0	0.0	8.3	2.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	12.0	0.0	20.0	14.7	0.0	14.4	11.6	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	2.2	0.0	0.0	2.3	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	20.0	0.0	20.0	20.0	0.0	19.5	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	4.0	15.2	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (KMW): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (KTZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	1.4	9.3	7.9	1.4	8.8	11.4	3.7	4.5	1.4
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	44.7	44.7	23.3	40.5	42.0	20.2	44.7	37.4	23.7
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	6.6	14.0	14.0	6.5	14.0	14.0	3.8
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	1.5
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	12.9
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.1	0.0	0.0	13.6	0.0	0.0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	5.5	3.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

2.3.3 Option selection and utilisation under 1:500 DYAA scenario

Table 21: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	2075	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2045	0	0	2045	0	0	2050	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2050	0	0	2051	0	0	2052	0	0
Bulk export (SHZ): Rye to SEW RZ8	2058	0	0	2050	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	2050	2051	0	2050	2051	2066	2050	2065
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (SHZ): SEW RZ8 to Rye	0	0	0	0	0	2075	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	2058	2058	2058	2058	2058	2058	2058	2058	2058
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2046	2041	0	2046	2041	0	2046	2046	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2041	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	0	2070	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	2050	2040	0	2040	2040	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2057	0	0	2051	0	0	2059	0	0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	2040	2040	2042	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	2068	0	0	2061	0	0	0	0	0

Table 22: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	7.4	6.8	6.8	7.4	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	2.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	20.0	0.0	0.0	6.1	0.0	0.0	1.8	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	10.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	20.0	9.9	0.0	20.0	20.0	7.7	9.0	4.5
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk export (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	10.0	2.0	0.0	10.0	10.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	16.1	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	10.0	0.0	0.0	9.4	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	20.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	12.1	20.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (KMW): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (KTZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	0.0	11.2	2.5	0.0	10.7	9.9	11.2	8.1	1.0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	44.7	44.7	30.5	42.9	40.0	24.3	44.7	37.3	22.6
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	7.3	7.3	7.3	15.7	7.3	7.3	7.3	7.3	7.3
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	10.1	14.0	14.0	9.6	14.0	14.0	5.8
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	1.6	2.9	0.0	1.0	2.4	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	3.8
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.3	0.0	0.0	15.3	0.0	0.0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	5.7	5.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	3.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0

2.3.4 Option selection and utilisation under 1:500 DYCP scenario

Table 23: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	0	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2067	0	0	2070	0	0	0	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2071	2050	2051	0	2050	2051	0	2050	2065
Bulk export (SHZ): Rye to SEW RZ8	0	0	0	0	2060	0	0	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (SHZ): SEW RZ8 to Rye	0	0	0	0	0	0	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2046	2041	0	2046	2041	0	2046	2046	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2041	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	0	2070	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	0	0	2051	0	0	2053	0	0	0
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	0	0	2054	0	0	2056	0	0	0
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2058	2050	2048	2072	2050	0	0	2059	0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0	0	0	0	0	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	0	0	0	0	0	0	0	0	0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	0	0	0	0	0	0	0	0	0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	0	0	0	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 24: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYCP planning scenario (Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	1.4	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	4.0	20.0	13.9	0.0	20.0	14.3	0.0	20.0	16.0
Bulk export (SHZ): Rye to SEW RZ8	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Bulk export (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2.0	2.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	4.0	4.0	0.0	4.0	4.0	0.0	4.0	4.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d)	4.0	4.0	0.0	4.0	4.0	0.0	4.0	4.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	4.0	4.0	0.0	4.0	4.0	0.0	4.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	4.0	0.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (KMW): NEUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (KTZ): NEUBs	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Drought option - demand side (SHZ): NEUBs	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	0.0	0.0	2.7	0.0	0.0	2.7	0.0	0.0	0.0
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0	0.0
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	7.3	8.8	0.3	1.5	6.7	0.0	0.0	1.3	0.0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	8.8	20.9	17.4	5.7	12.2	14.7	5.7	5.7	8.5
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	12.3	7.0	7.3	9.9	16.8	7.3	7.9	6.3	6.3
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	1.5	14.0	14.0	1.5	14.0	13.7	1.5	14.0	8.6
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Recycling (KMW): Medway to lake (14Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

2.4 Option utilisation profiles (Best Value Plan)

2.4.1 Western area

Utilisation of supply-side options in the Western area is shown in Figure 1 to Figure 22, excluding interzonal transfers.

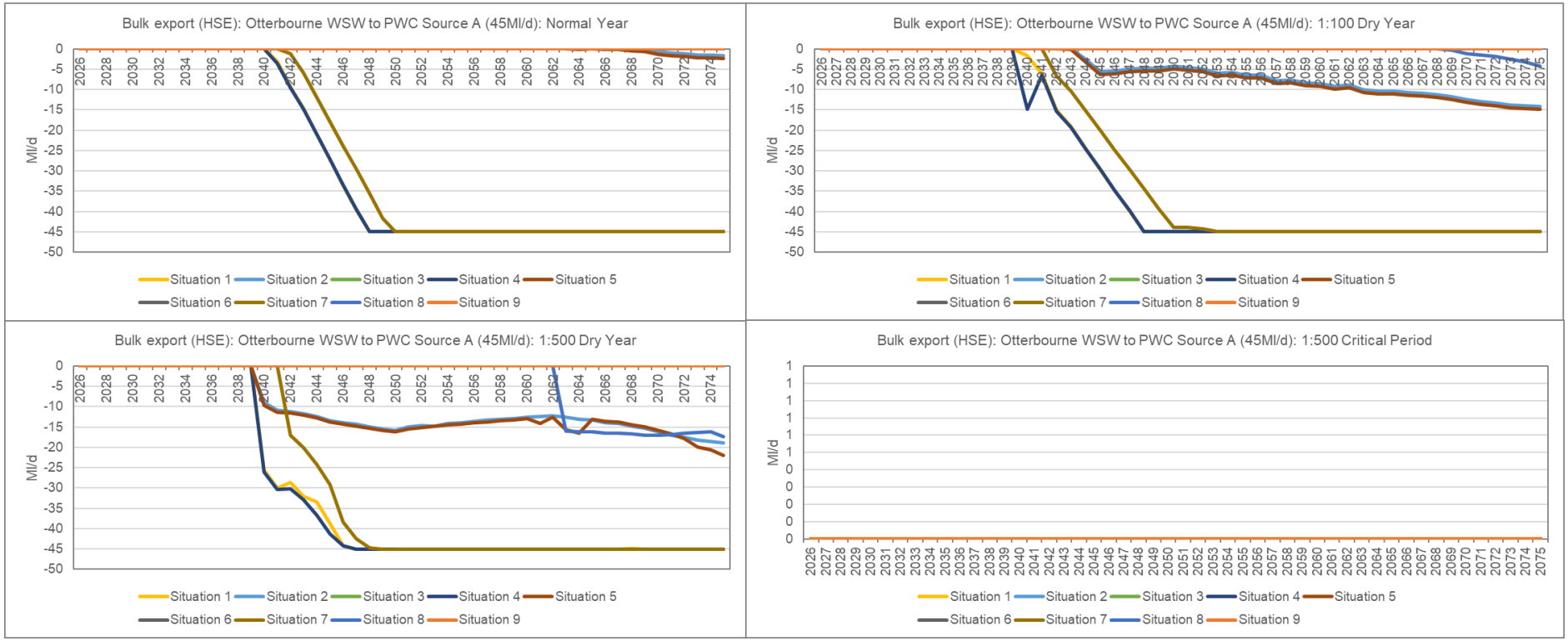

Figure 1: Utilisation of bulk export from Otterbourne WSW HSE to Portsmouth Water Source A in each supply-demand situation under each planning scenario.

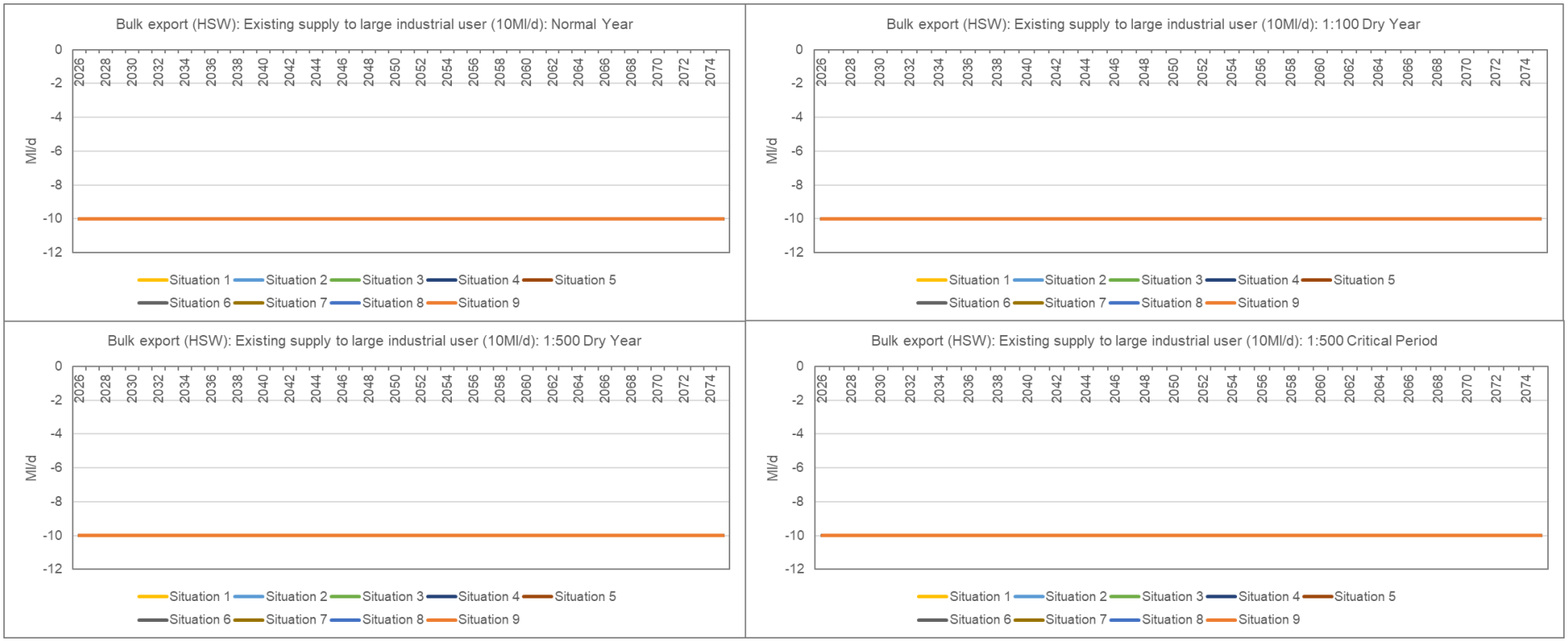

Figure 2: Utilisation of existing bulk supply to an existing industrial user in HSW in each supply-demand situation under each planning scenario.

Figure 3: Utilisation of bulk import to HAZ via T2ST in each supply-demand situation under each planning scenario.

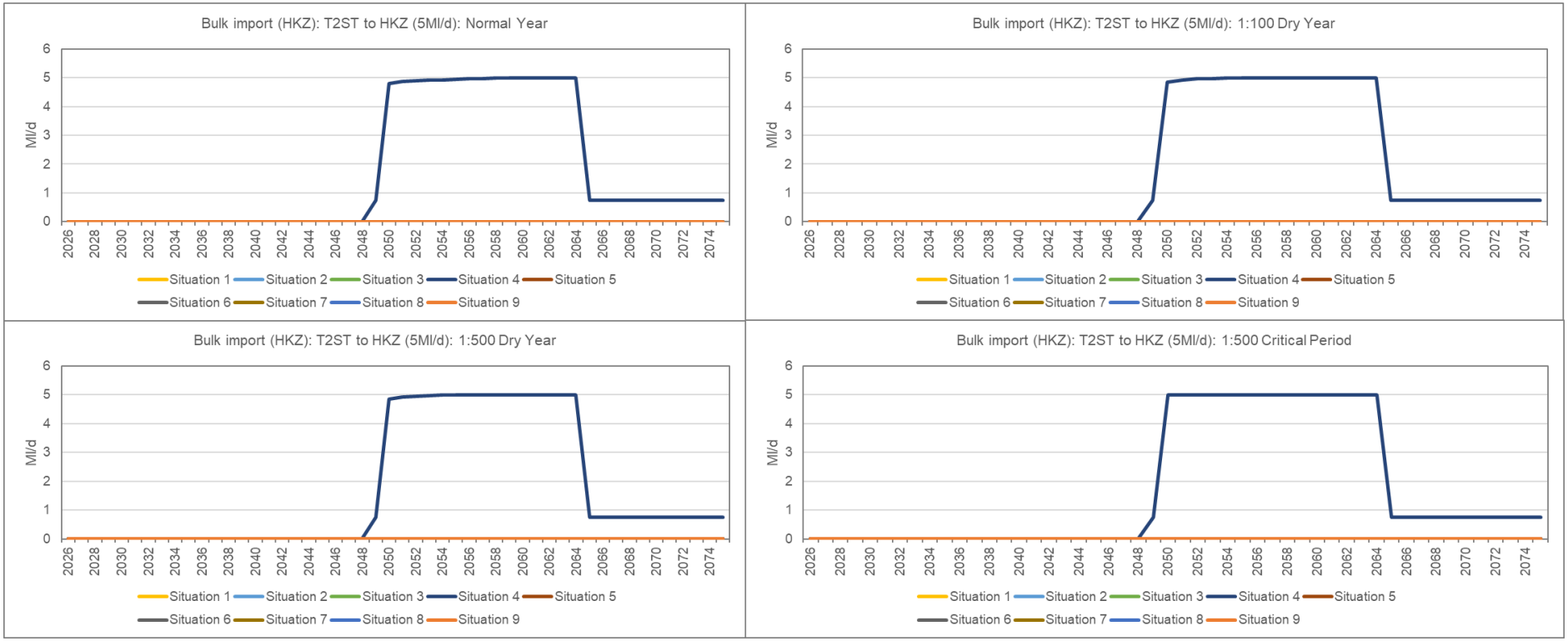

Figure 4: Utilisation of bulk import to HKZ from Havant Thicket Reservoir in each supply-demand situation under each planning scenario.

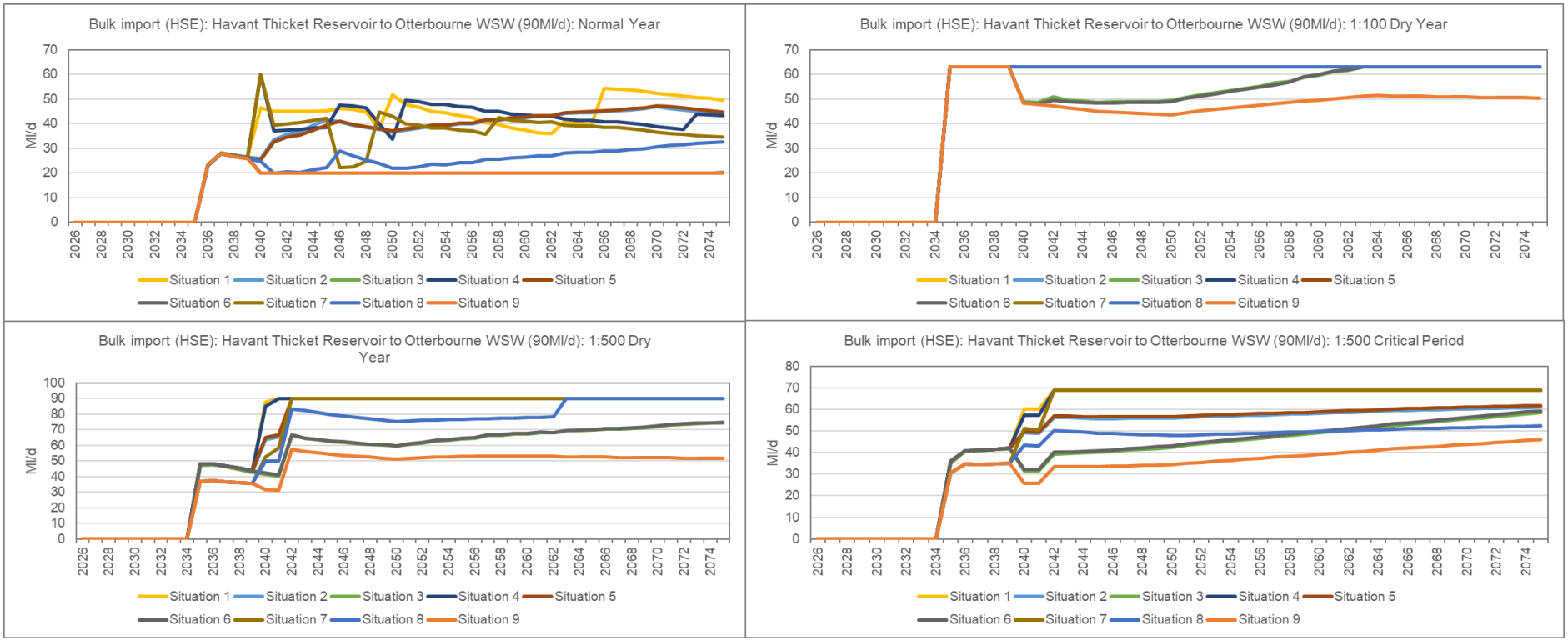

Figure 5: Utilisation of bulk import to HSE from Havant Thicket Reservoir in each supply-demand situation under each planning scenario.

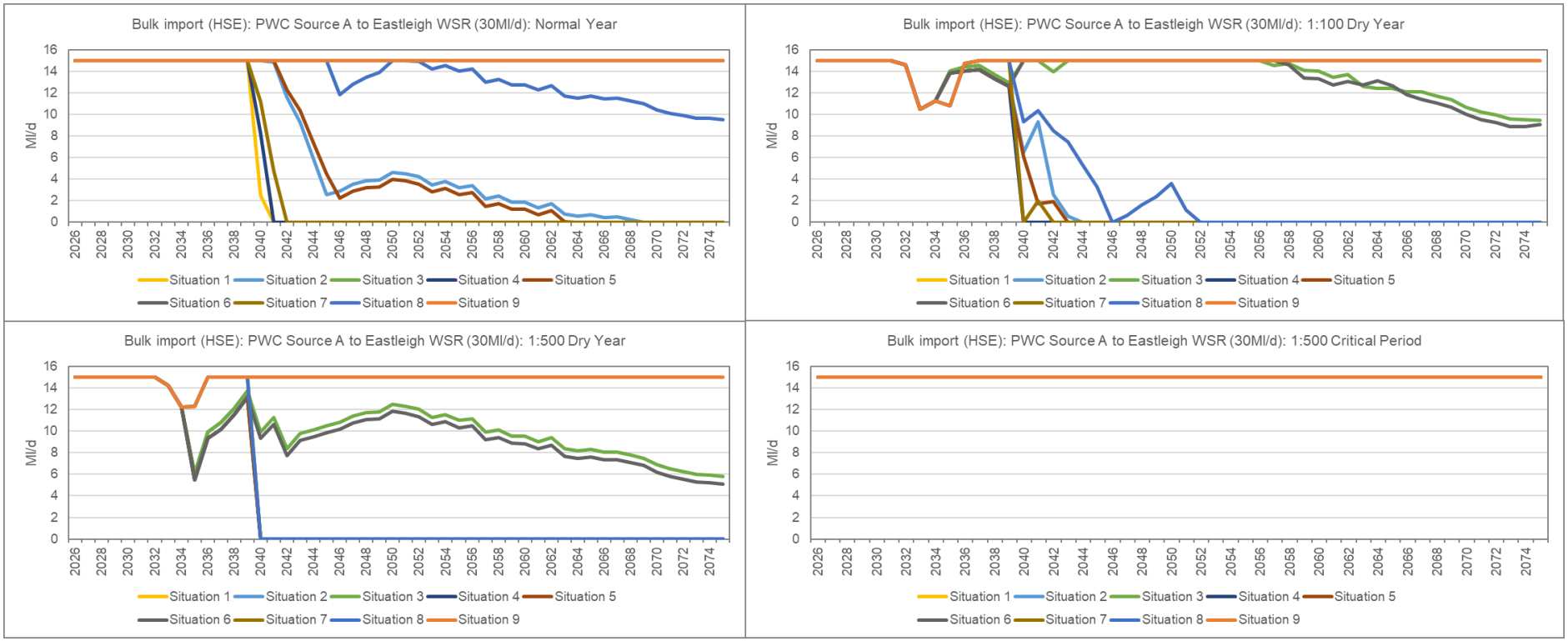

Figure 6: Utilisation of bulk import to Eastleigh WSR in HSE from Portsmouth Water Source A in each supply-demand situation under each planning scenario.

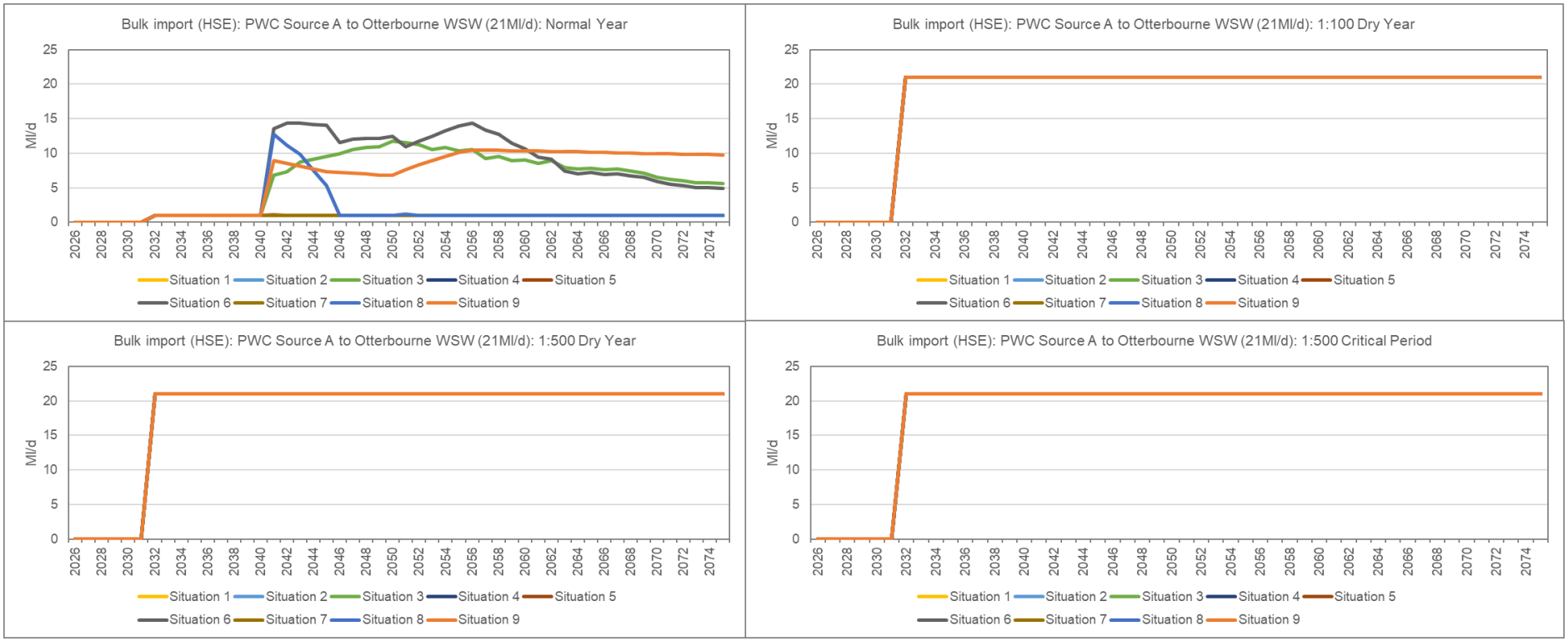

Figure 7: Utilisation of bulk import to Otterbourne WSW in HSE from Portsmouth Water Source A in each supply-demand situation under each planning scenario.

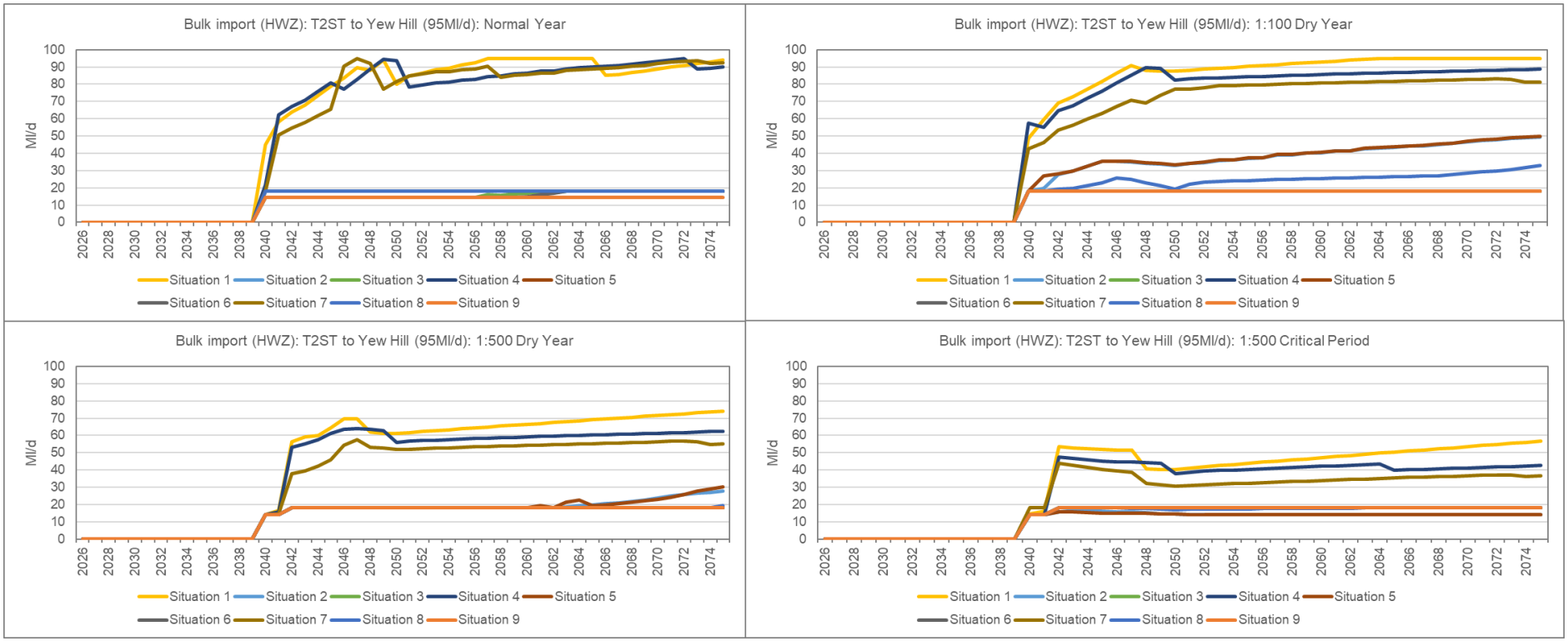

Figure 8: Utilisation of bulk import to HWZ via T2ST in each supply-demand situation under each planning scenario.

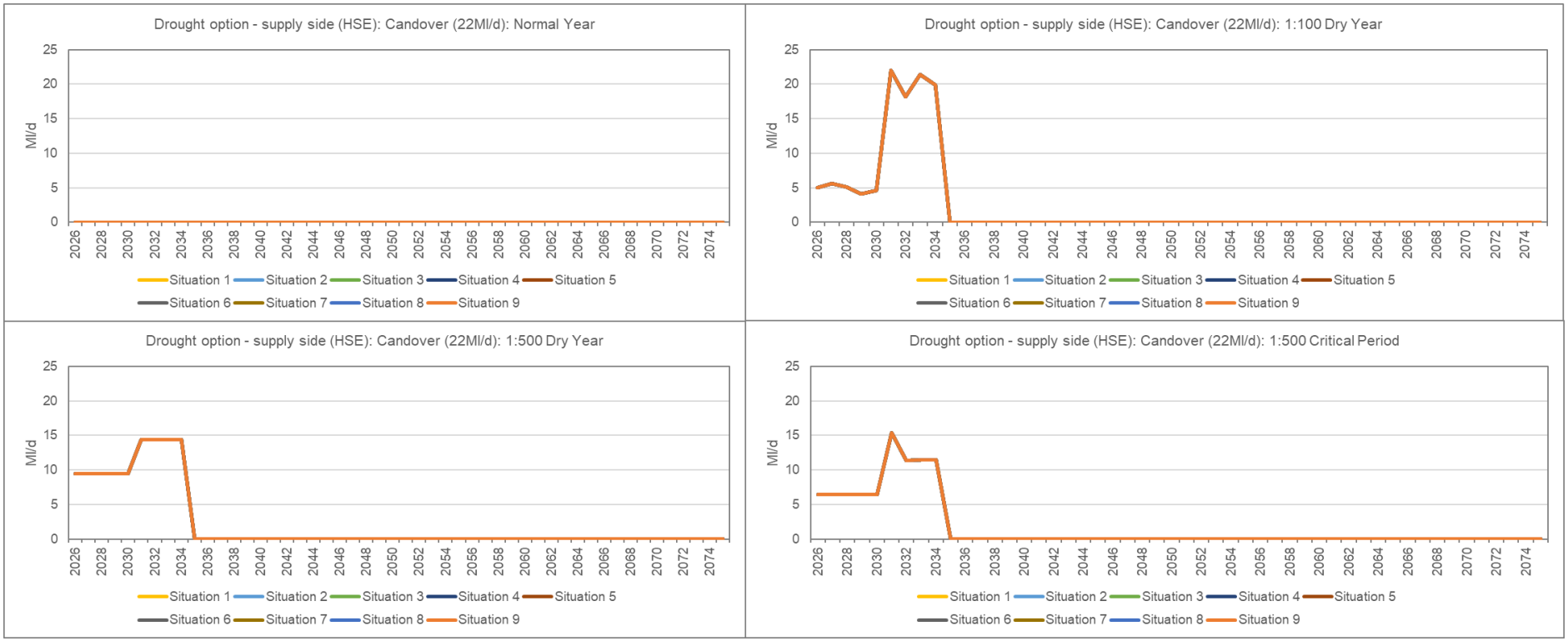

Figure 9: Utilisation of Candover drought option in HSE in each supply-demand situation under each planning scenario.

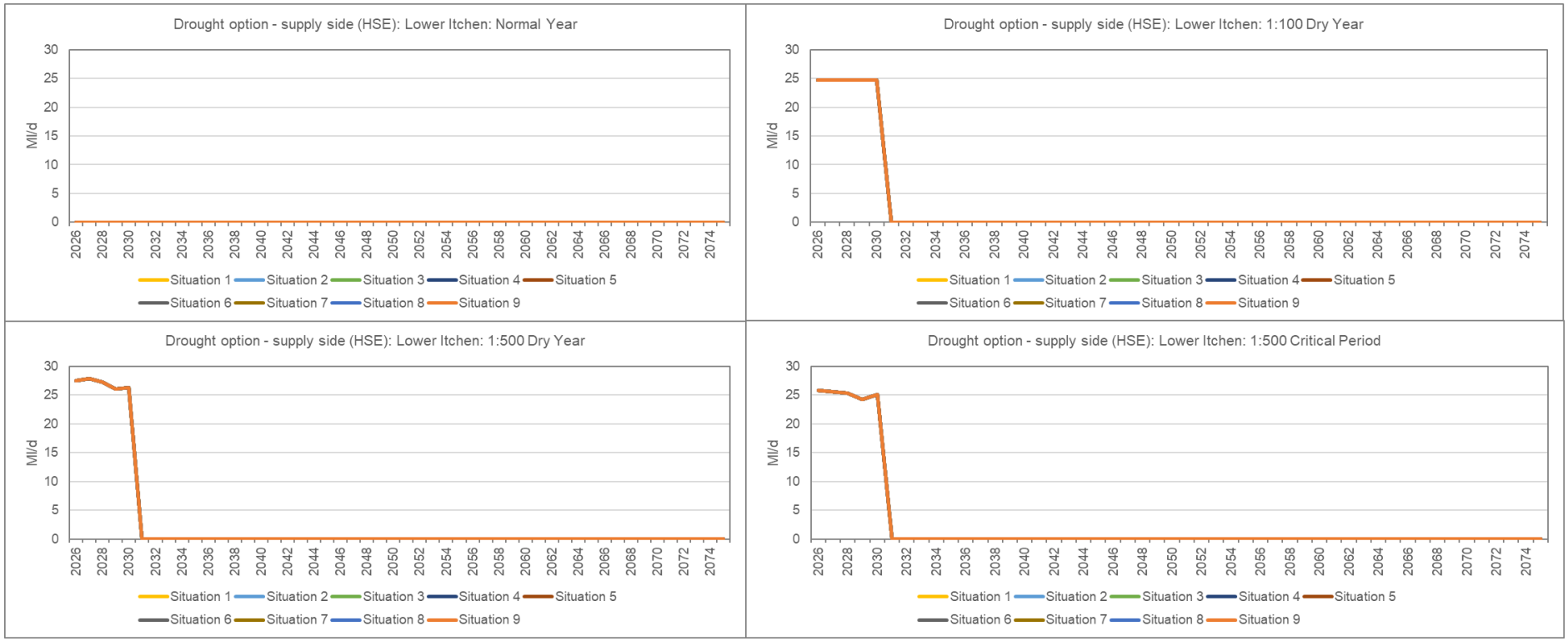

Figure 10: Utilisation of Lower Itchen drought option in HSE in each supply-demand situation under each planning scenario.

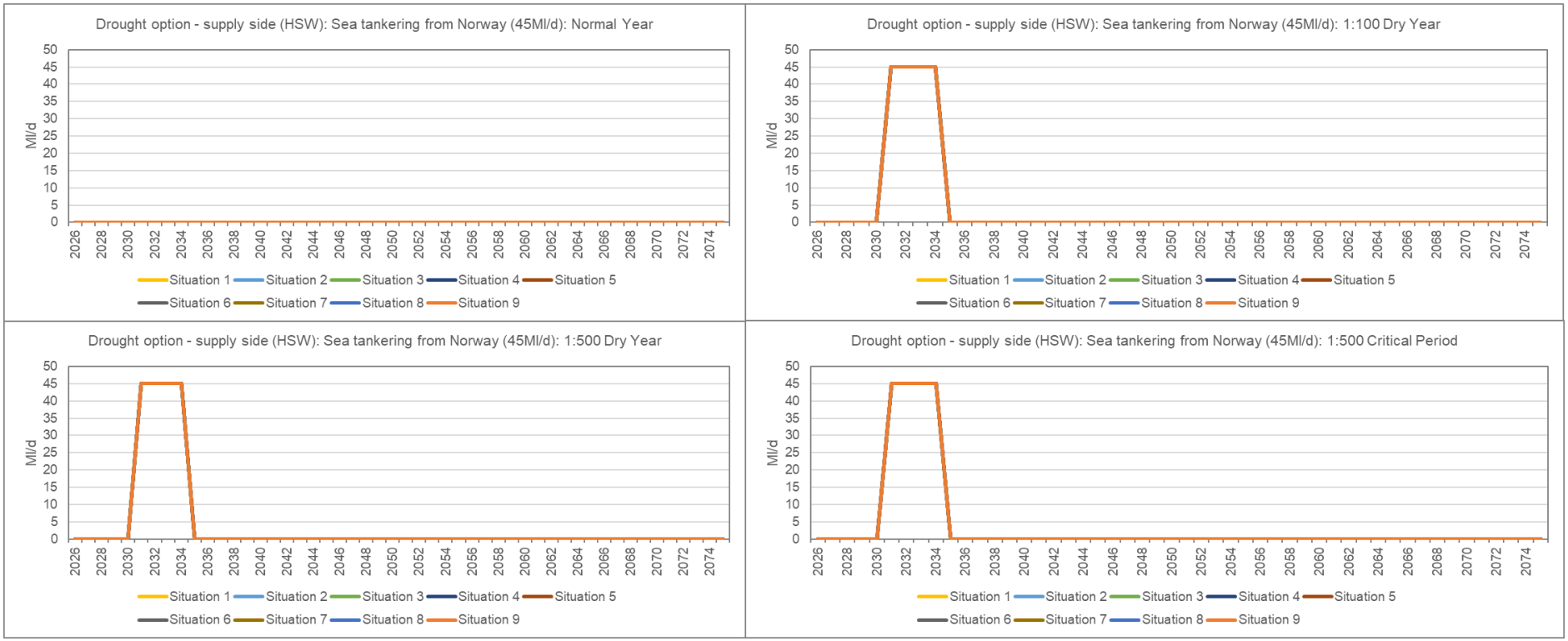

Figure 11: Utilisation of the option to import water from Norway via sea tankering in HSW in each supply-demand situation under each planning scenario.

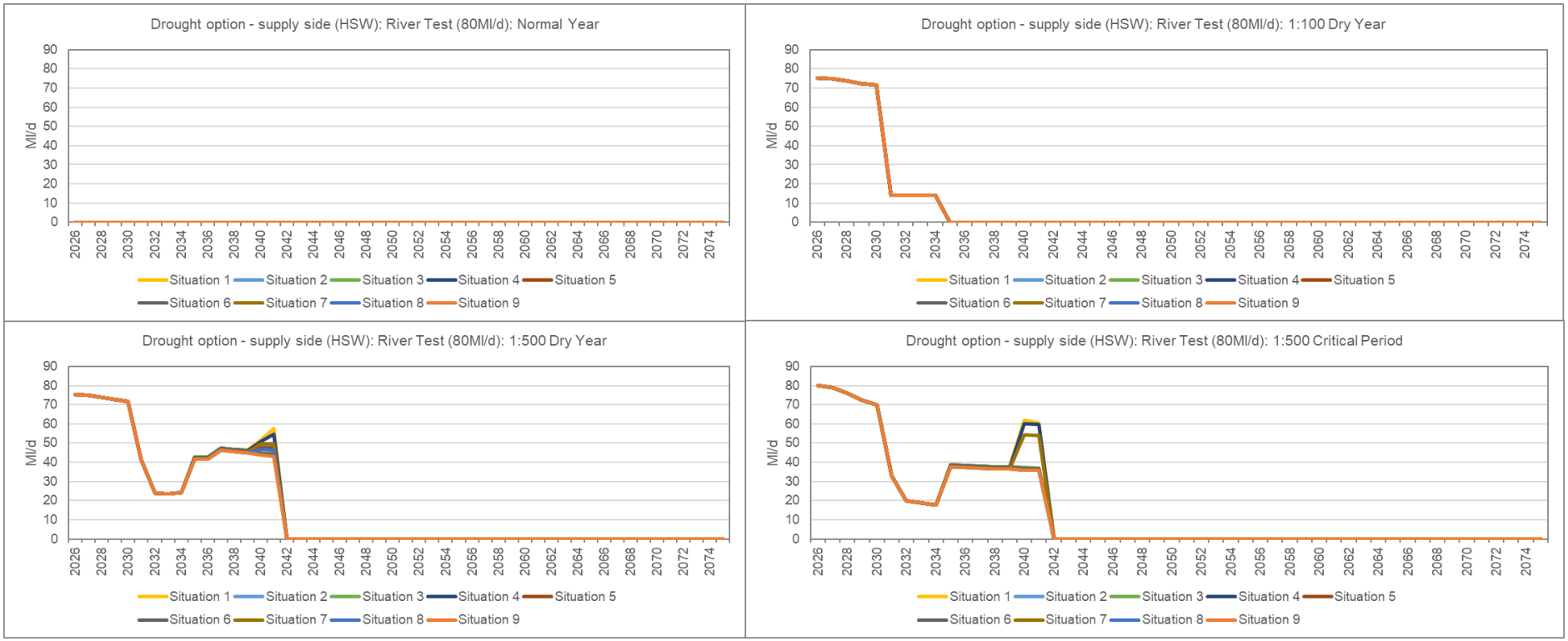

Figure 12: Utilisation of River Test drought option in HSW in each supply-demand situation under each planning scenario.

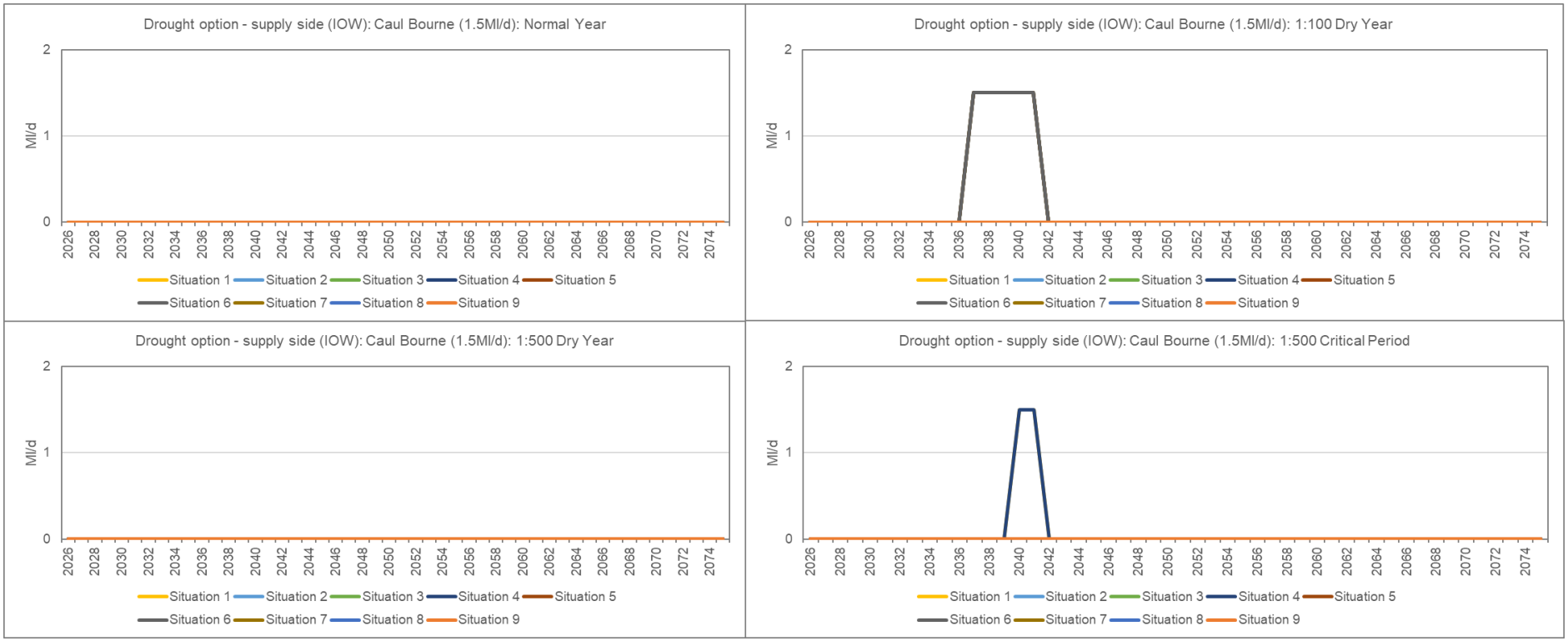

Figure 13: Utilisation of Caul Bourne drought option on the IOW in each supply-demand situation under each planning scenario.

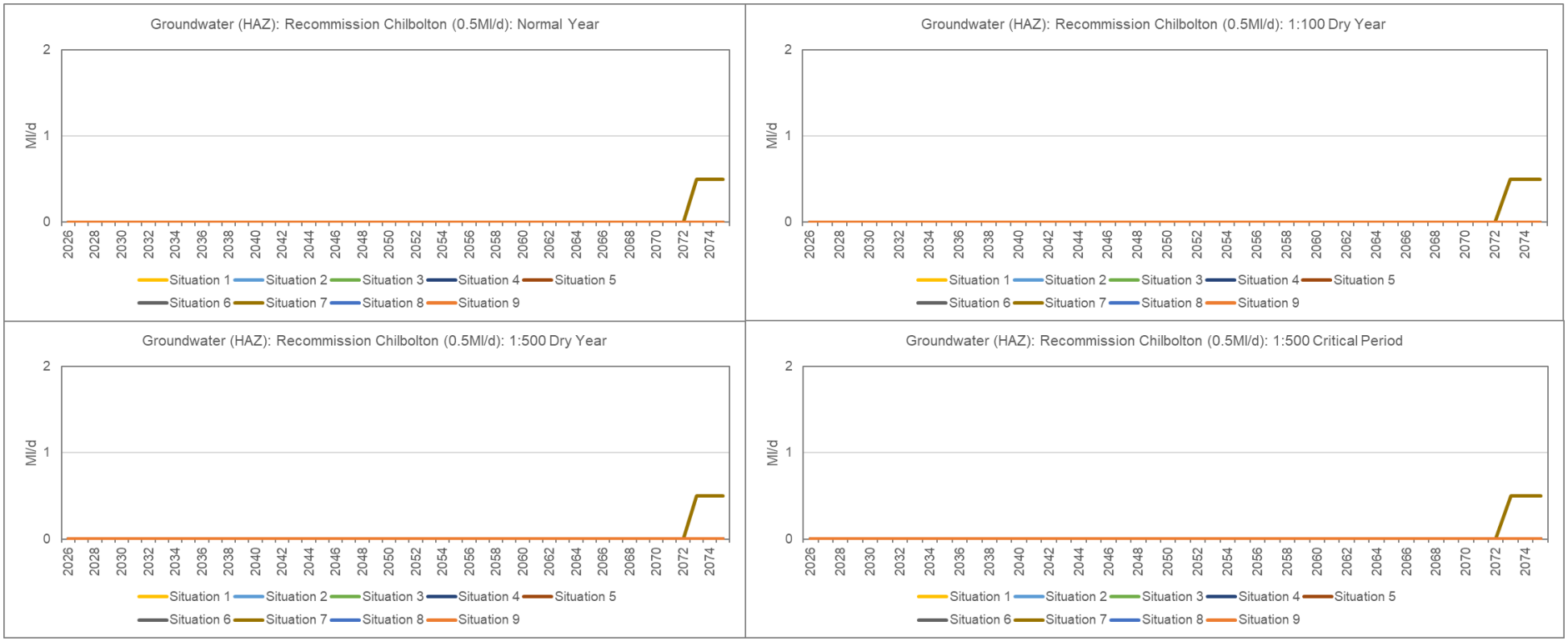

Figure 14: Utilisation of Chilbolton groundwater source in HAZ in each supply-demand situation under each planning scenario.

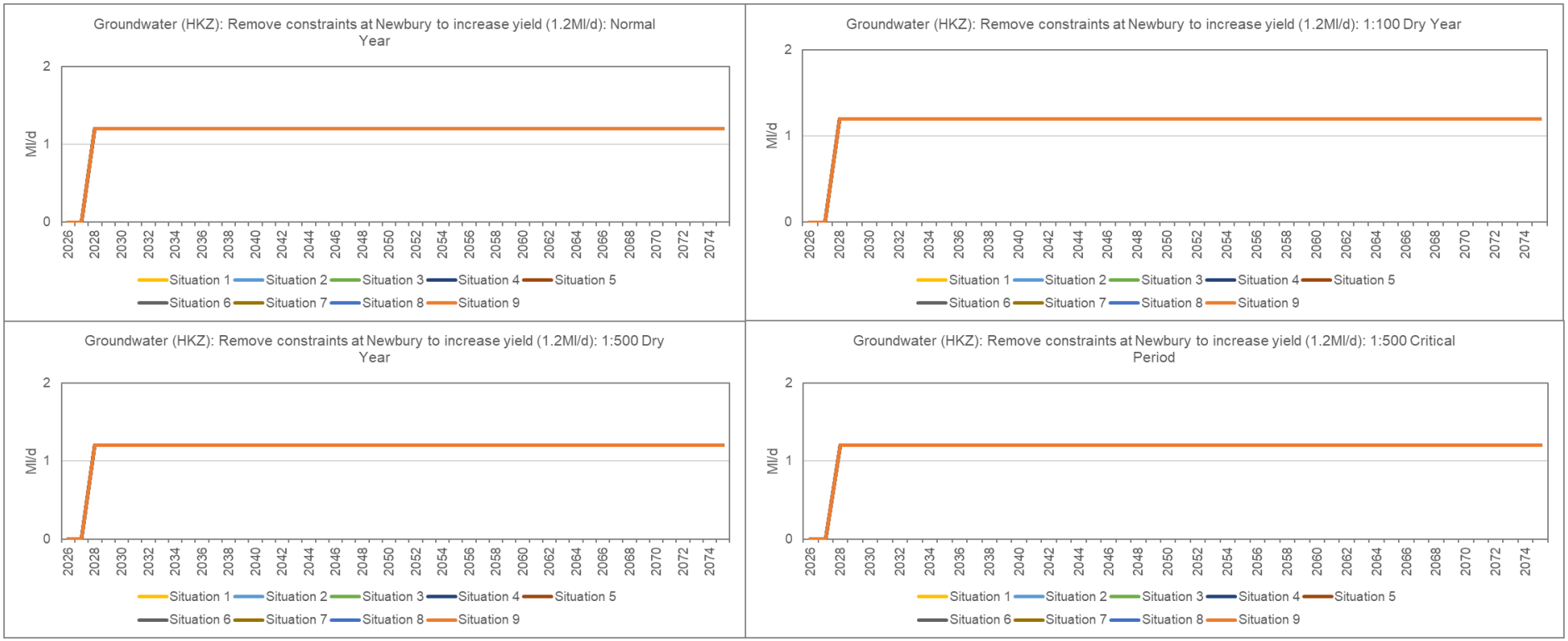

Figure 15: Utilisation of Newbury groundwater source in HKZ in each supply-demand situation under each planning scenario.

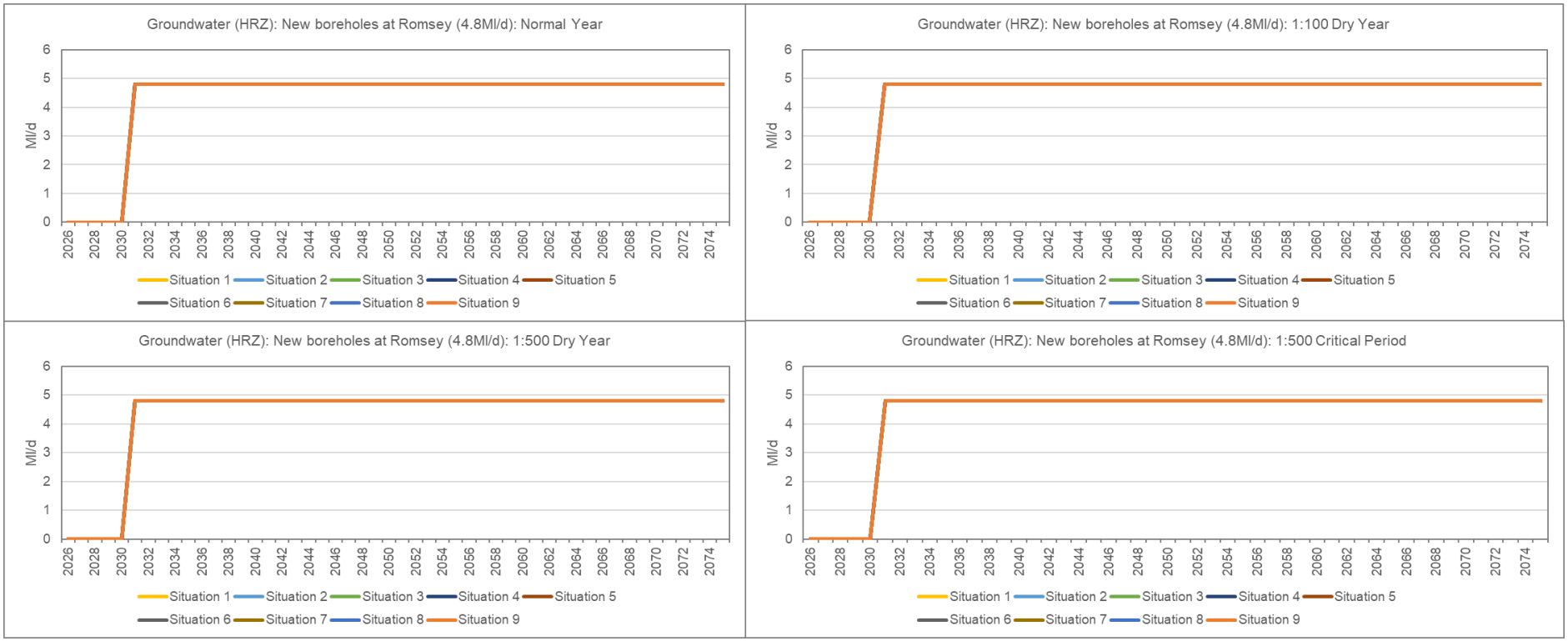

Figure 16: Utilisation of Romsey groundwater source in HRZ in each supply-demand situation under each planning scenario.

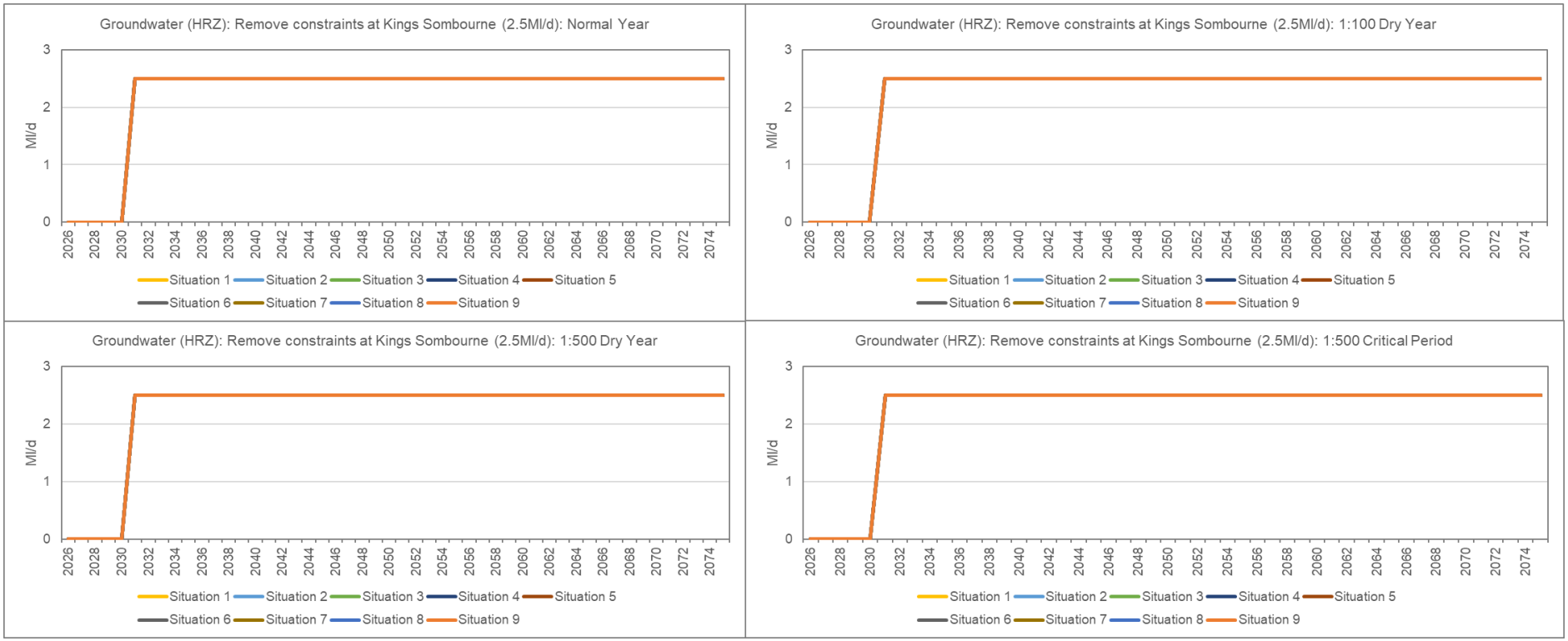

Figure 17: Utilisation of Kings Sombourne groundwater source in HSW in each supply-demand situation under each planning scenario.

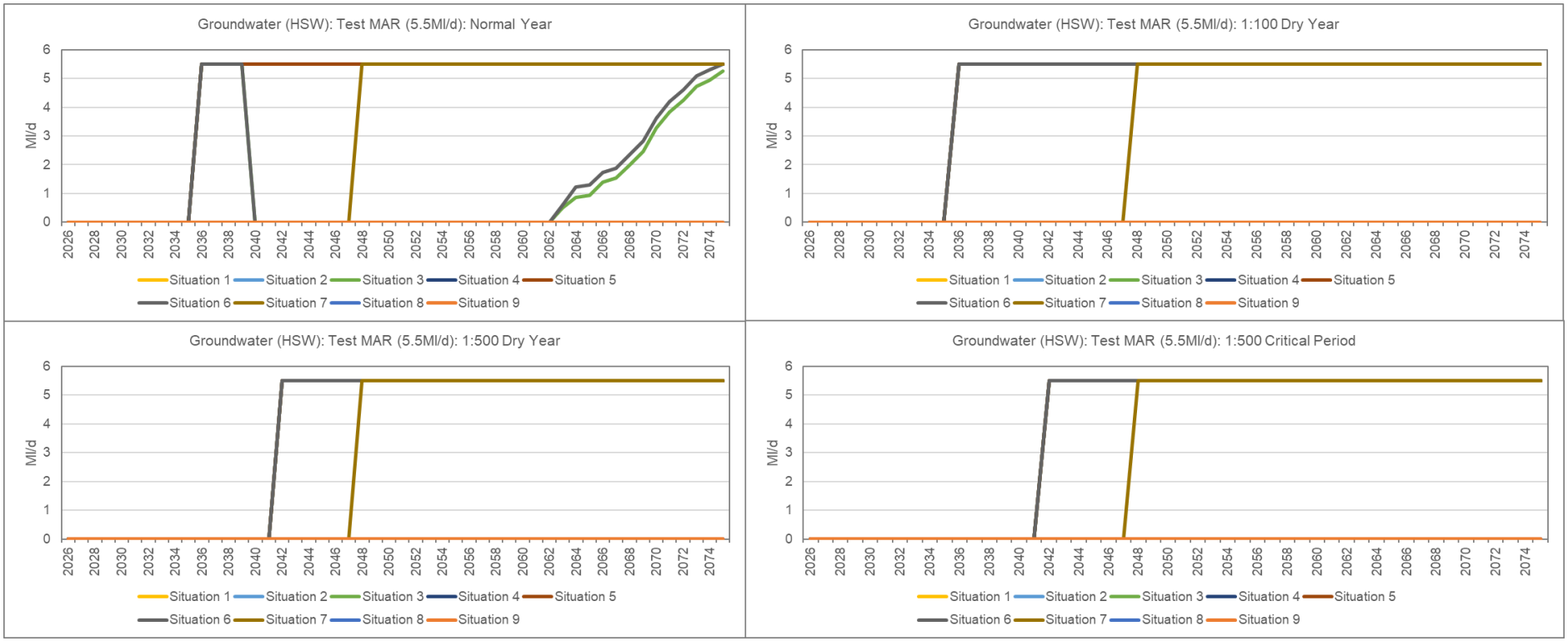

Figure 18: Utilisation of Test MAR groundwater source in HSW in each supply-demand situation under each planning scenario.

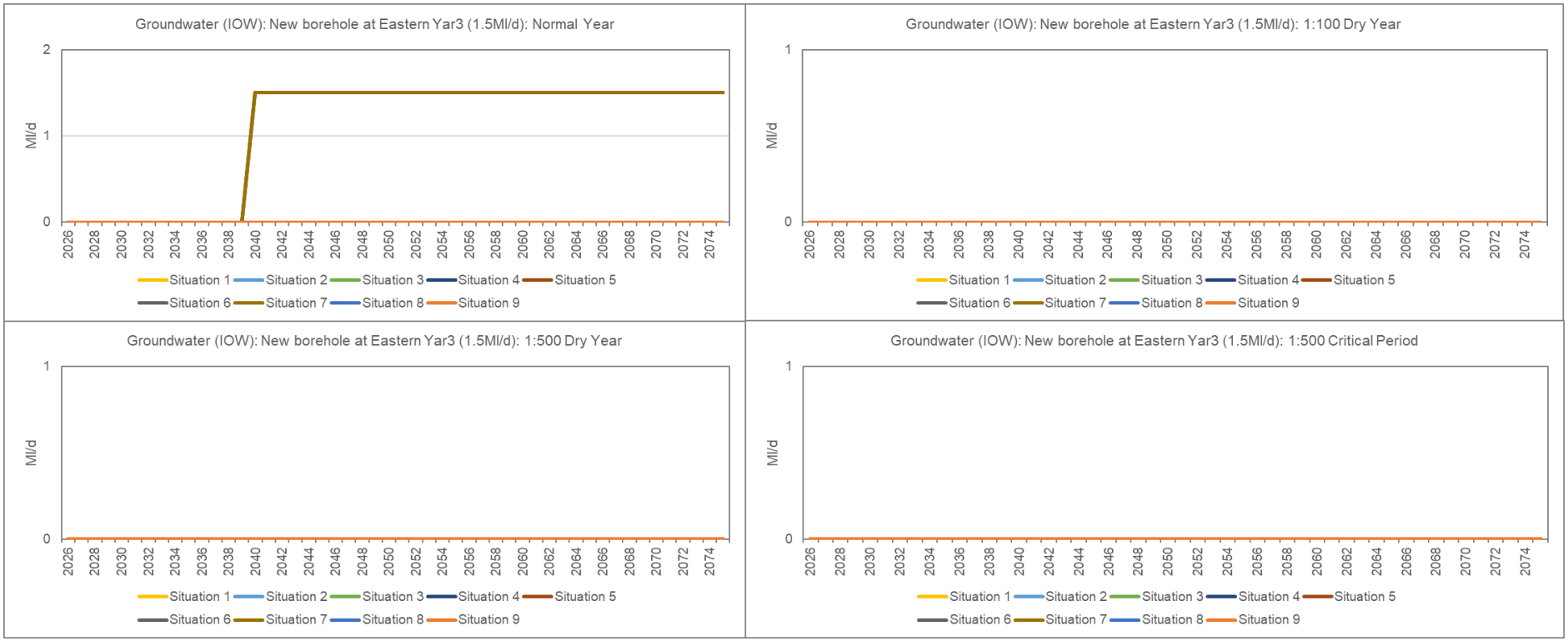

Figure 19: Utilisation of Eastern Yar3 groundwater source on the IOW in each supply-demand situation under each planning scenario.

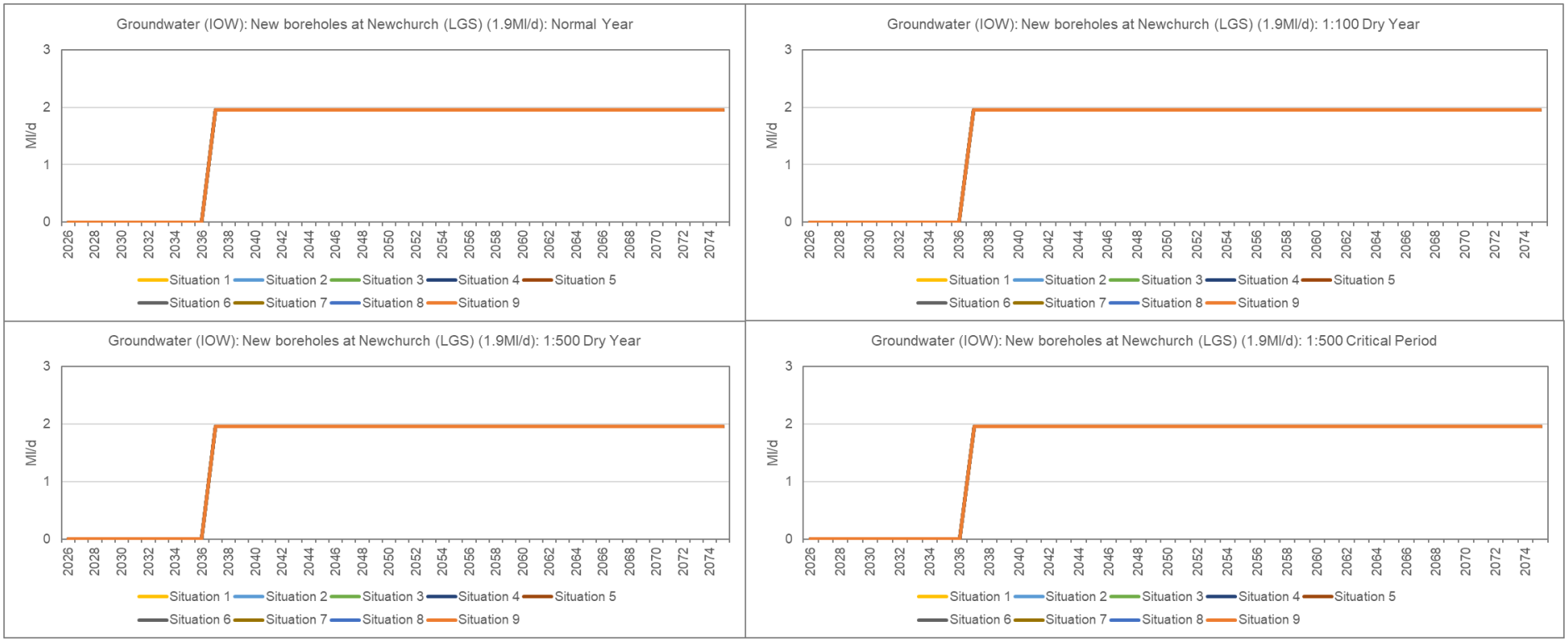

Figure 20: Utilisation of Newchurch groundwater source on the IOW in each supply-demand situation under each planning scenario.

Figure 21: Utilisation of the option to augment storage in Havant Thicket Reservoir with recycled water from Budd Farm WTW in each supply-demand situation under each planning scenario.

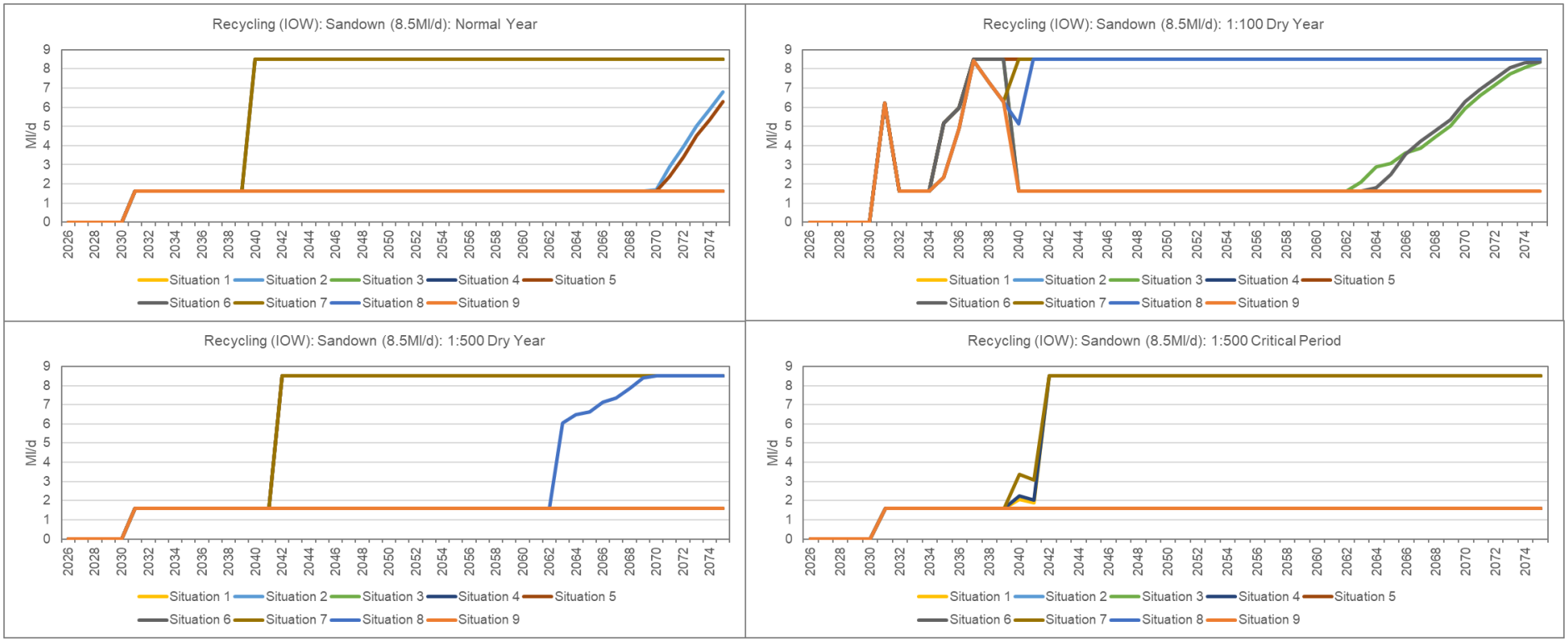

Figure 22: Utilisation of Sandown recycling option on the IOW in each supply-demand situation under each planning scenario.

2.4.2 Central area

Utilisation of supply-side options in the Central area is shown in Figure 23 to Figure 42, excluding interzonal transfers.

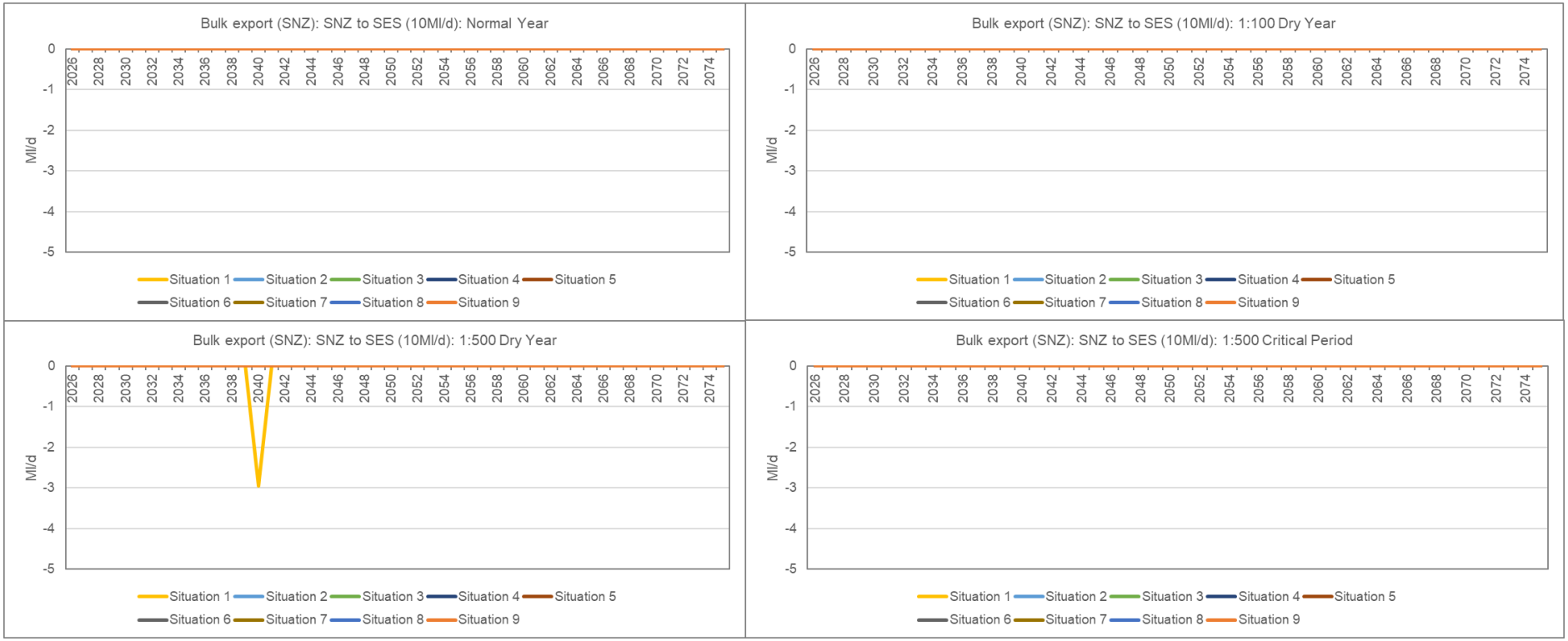

Figure 23: Utilisation of bulk export from SNZ to SES Water in each supply-demand situation under each planning scenario.

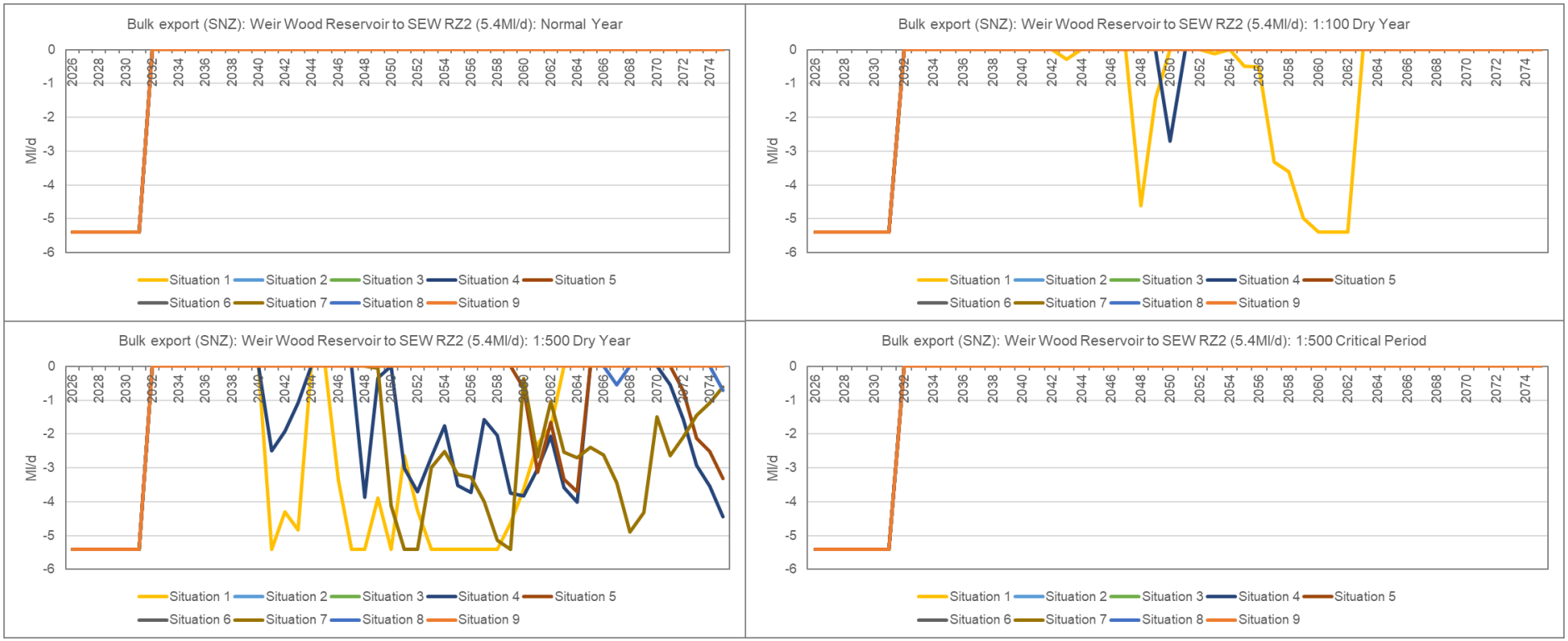

Figure 24: Utilisation of bulk export from Weir Wood Reservoir in SNZ to South East Water in each supply-demand situation under each planning scenario.

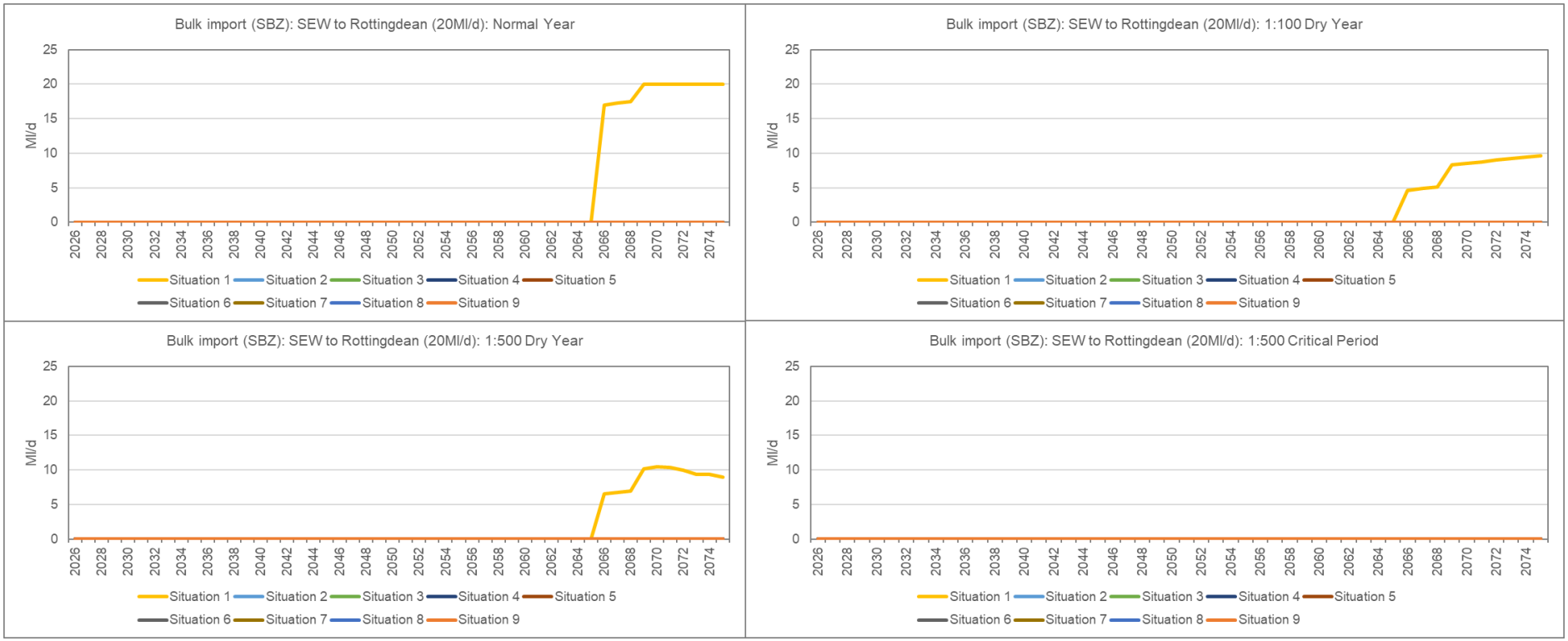

Figure 25: Utilisation of bulk import from South East Water to Rottingdean WSW in SBZ in each supply-demand situation under each planning scenario.

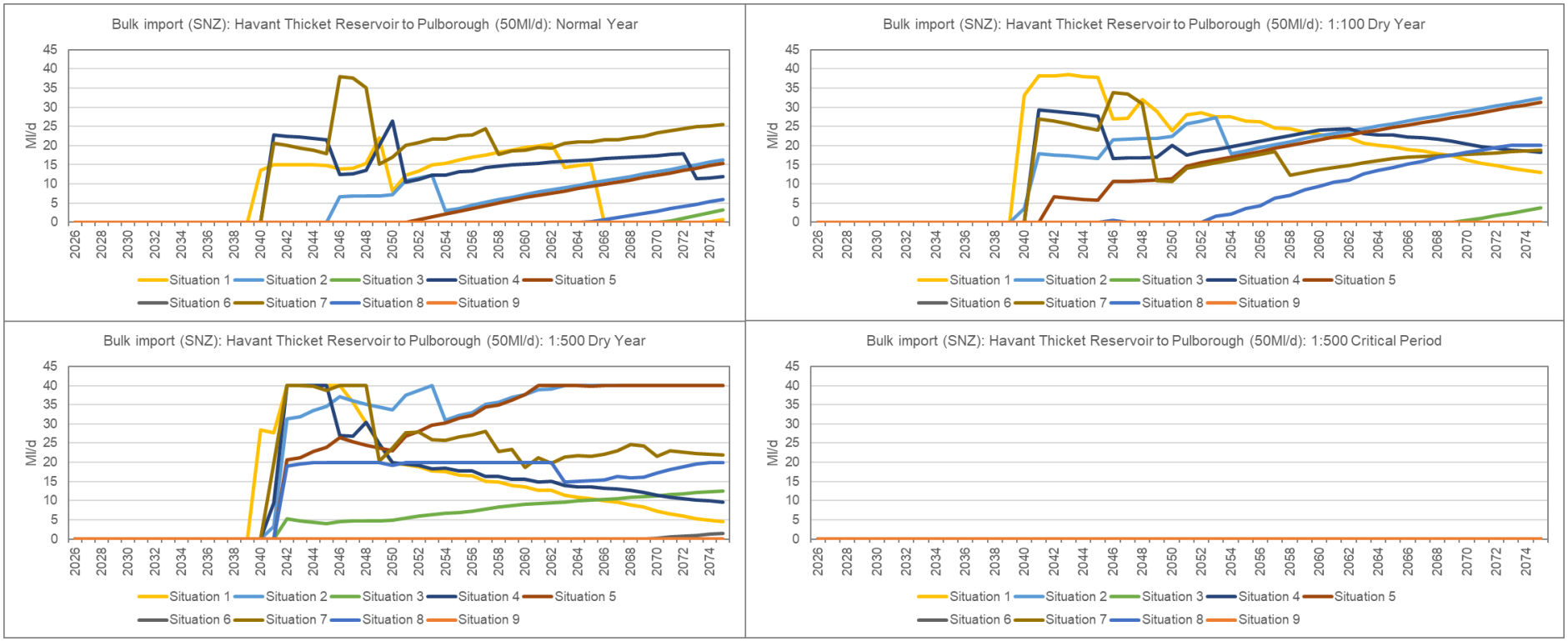

Figure 26: Utilisation of bulk import from Havant Thicket Reservoir to Pulborough in SNZ in each supply-demand situation under each planning scenario.

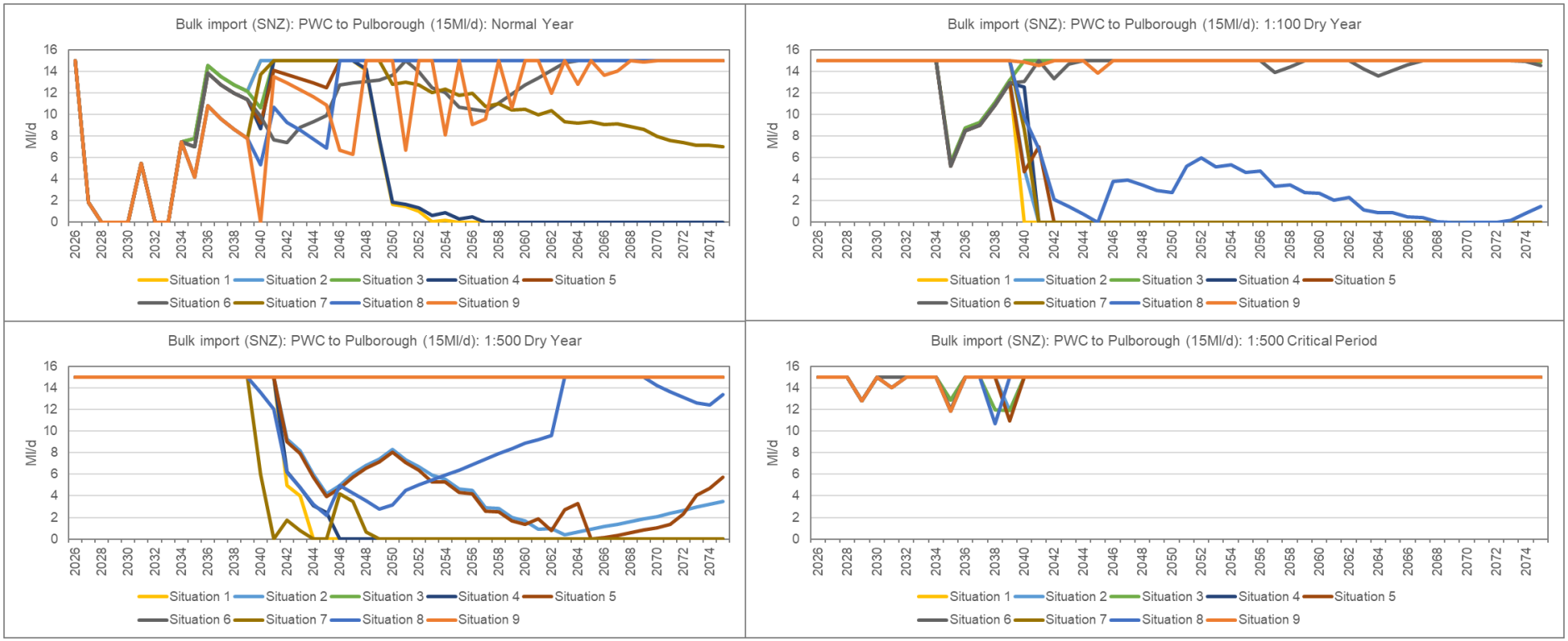

Figure 27: Utilisation of bulk import from Portsmouth Water to Pulborough in SNZ in each supply-demand situation under each planning scenario.

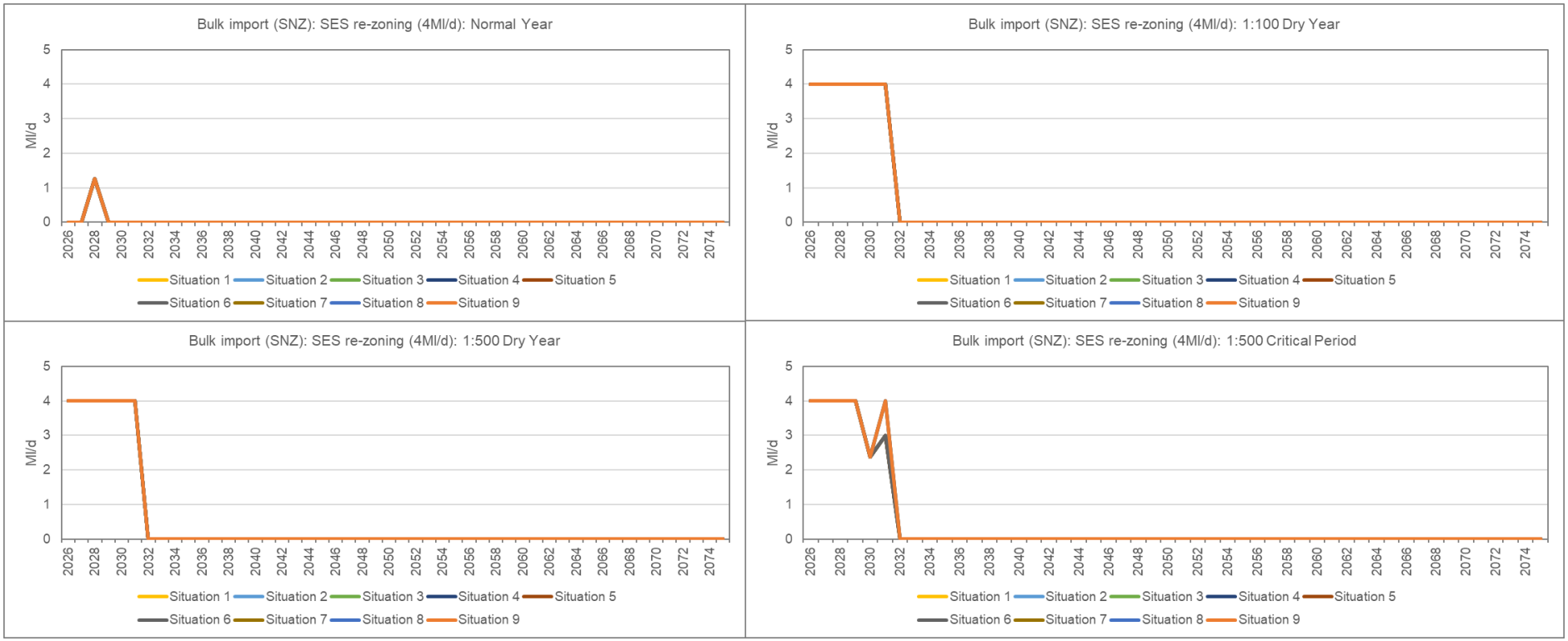

Figure 28: Utilisation of the option to rezone customers in SNZ to SES Water in each supply-demand situation under each planning scenario.

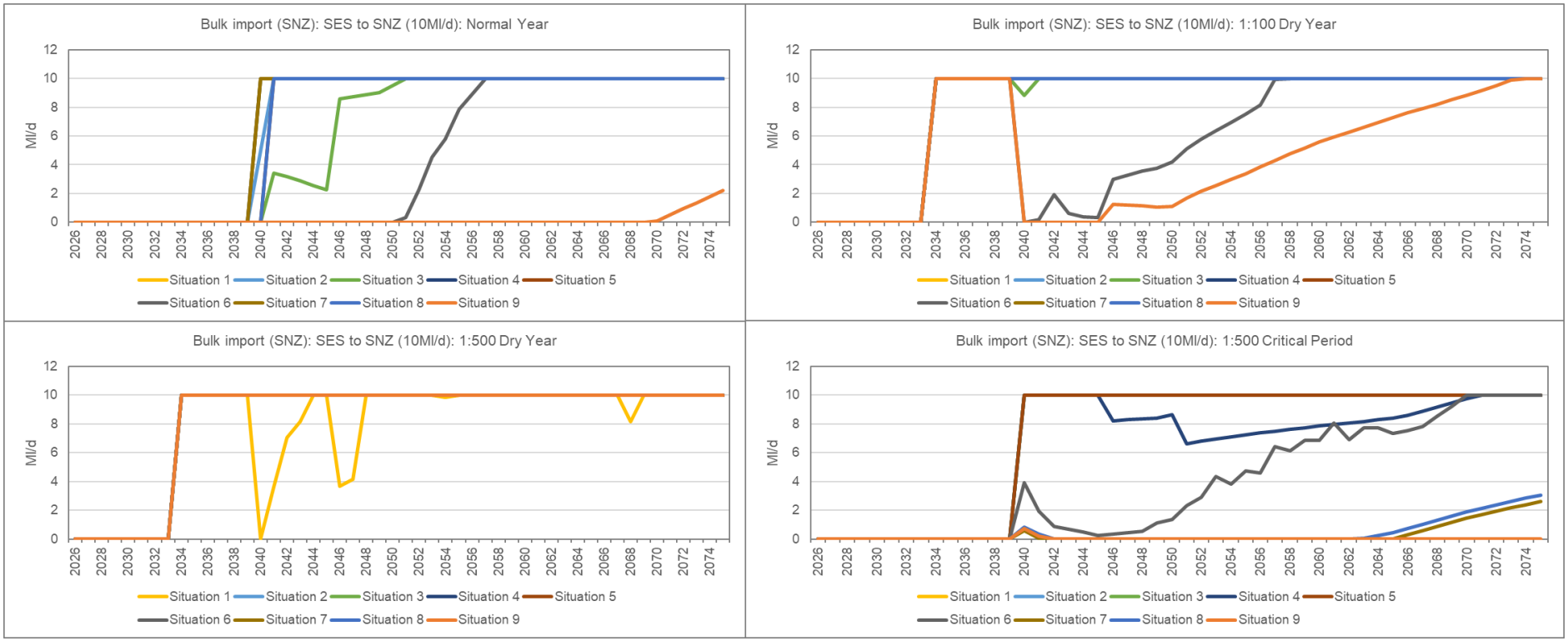

Figure 29: Utilisation of bulk import from SES Water to SNZ in each supply-demand situation under each planning scenario.

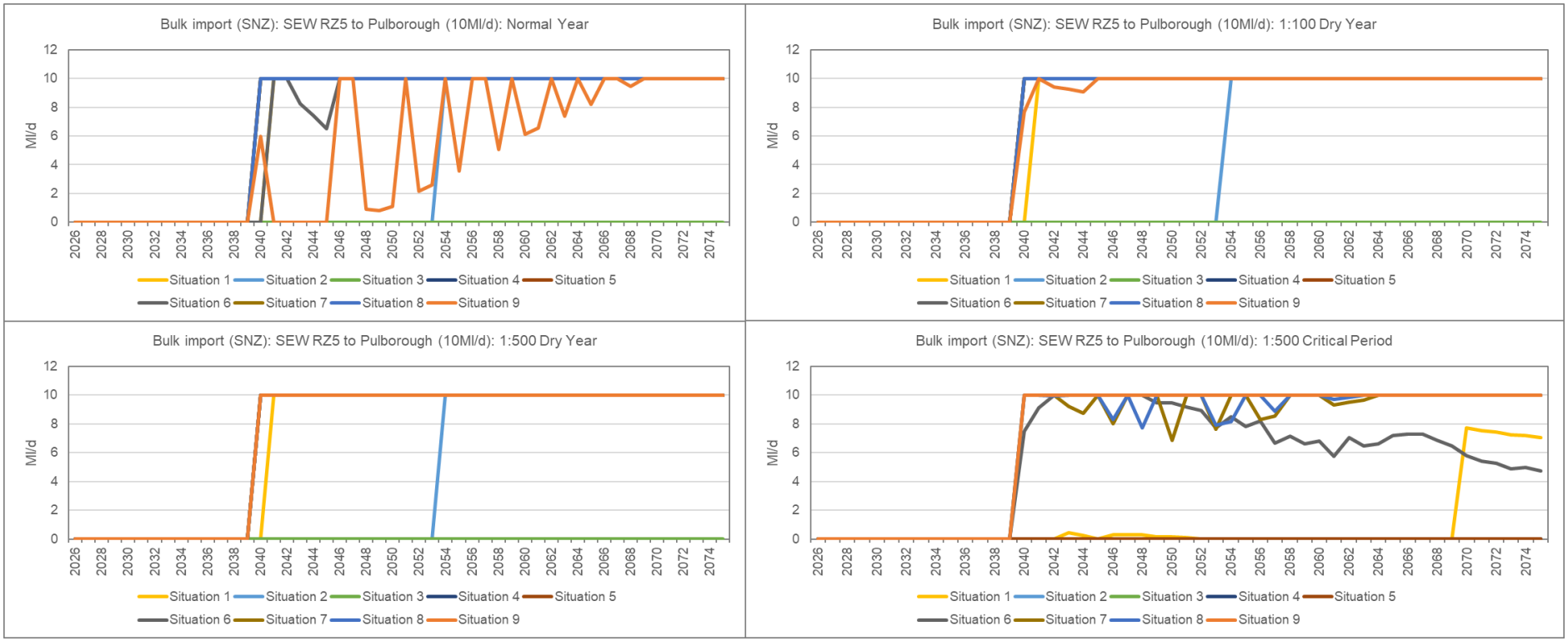

Figure 30: Utilisation of bulk import from South East Water to Pulborough WSW in SNZ in each supply-demand situation under each planning scenario.

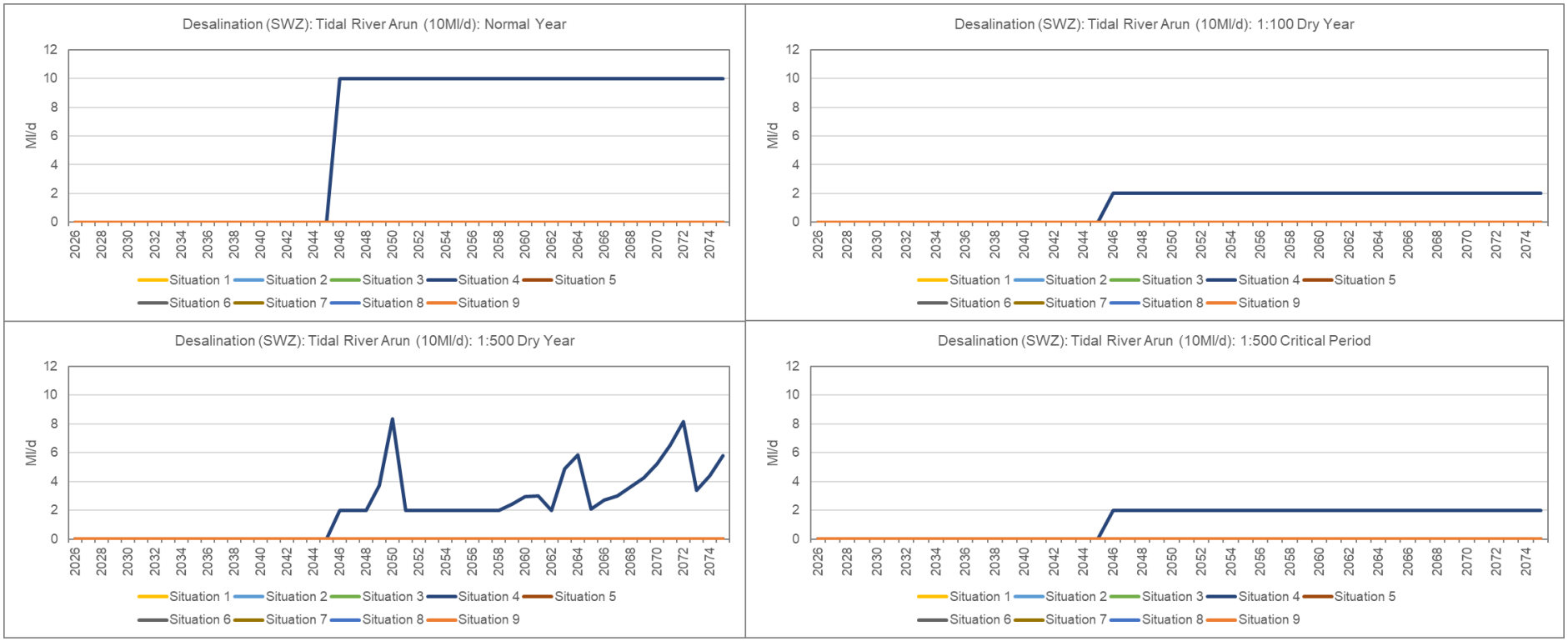

Figure 31: Utilisation of River Arun desalination option (10M/d) in SWZ in each supply-demand situation under each planning scenario.

Figure 32: Utilisation of River Arun desalination option (20M/d) in SWZ in each supply-demand situation under each planning scenario.

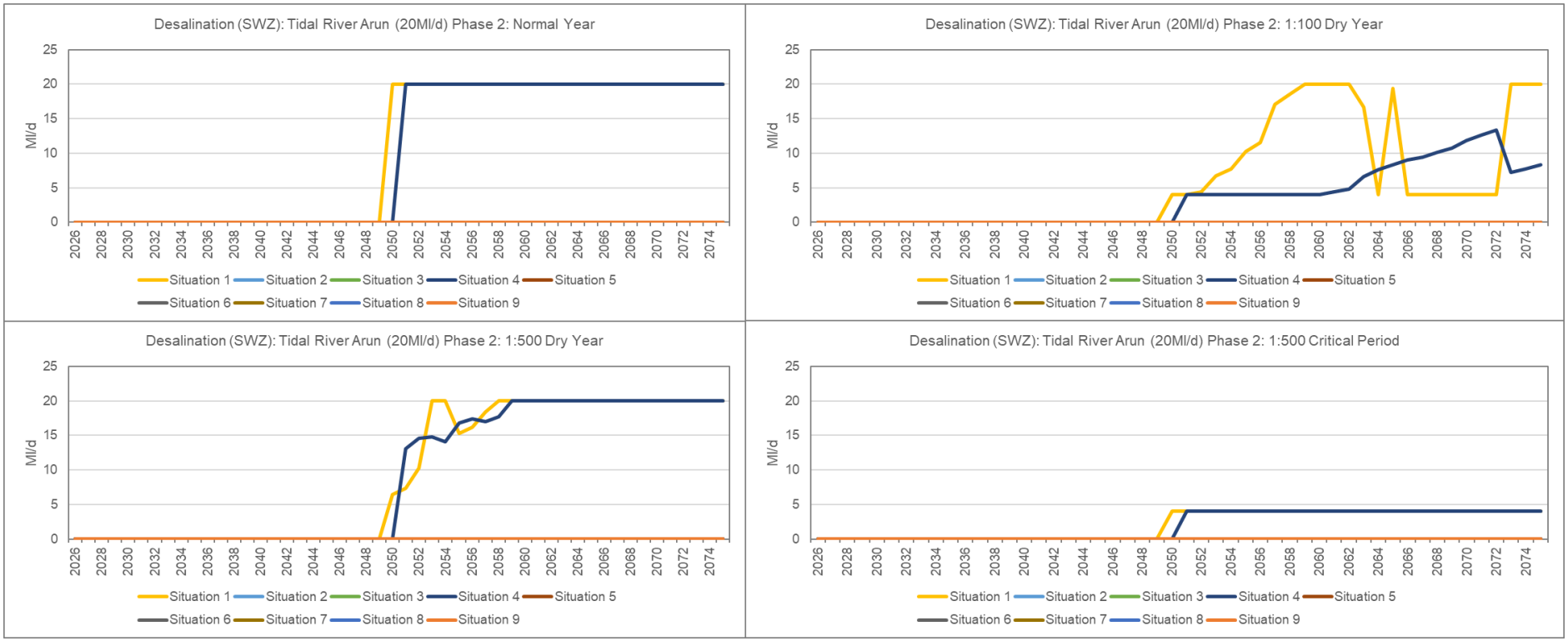

Figure 33: Utilisation of River Arun desalination option (20M/d) in SWZ in each supply-demand situation under each planning scenario.

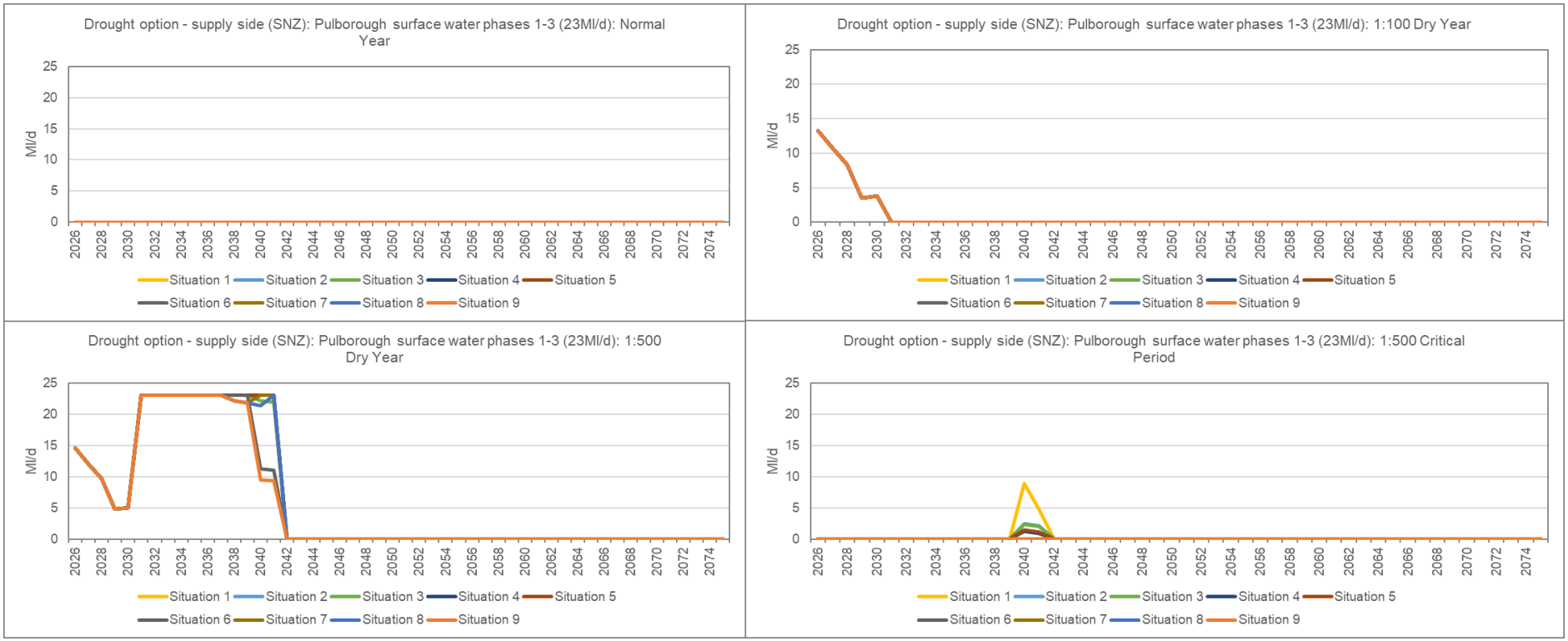

Figure 34: Utilisation of Pulborough surface water drought option in SWZ in each supply-demand situation under each planning scenario.

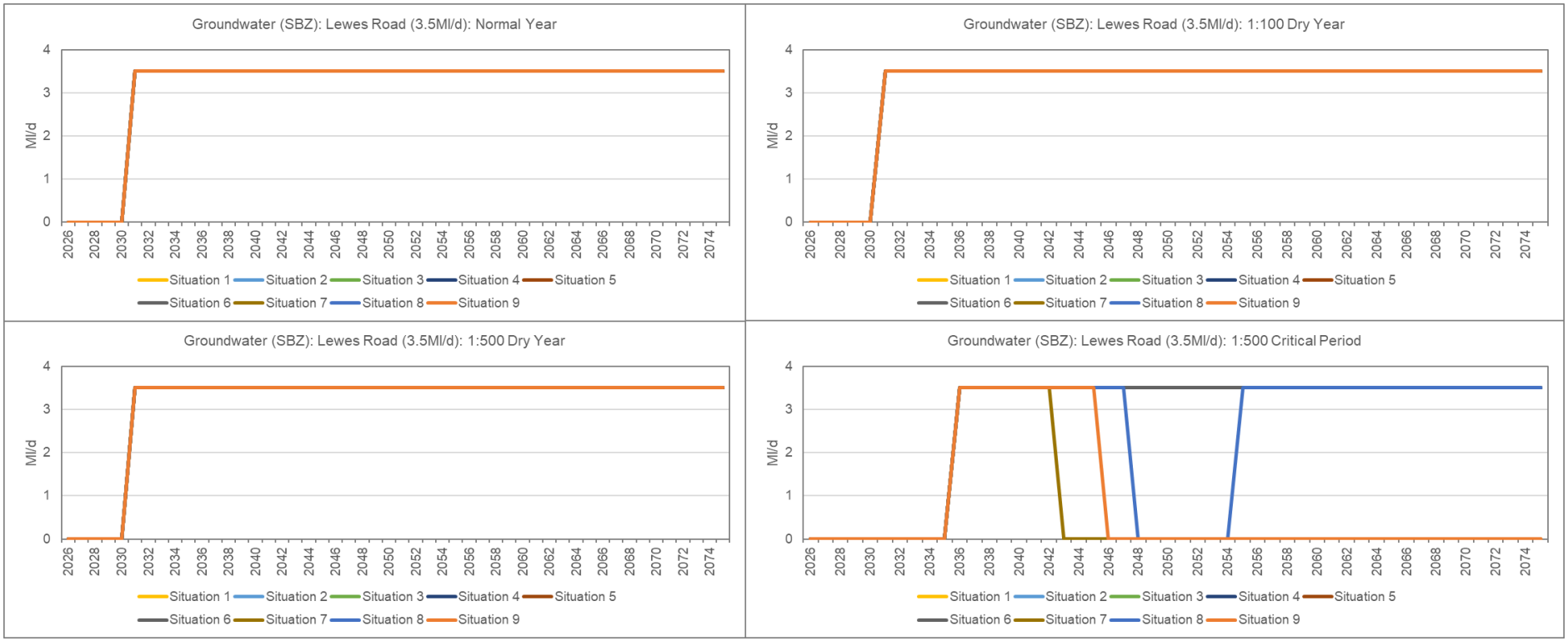

Figure 35: Utilisation of Lewes Road groundwater option in SBZ in each supply-demand situation under each planning scenario.

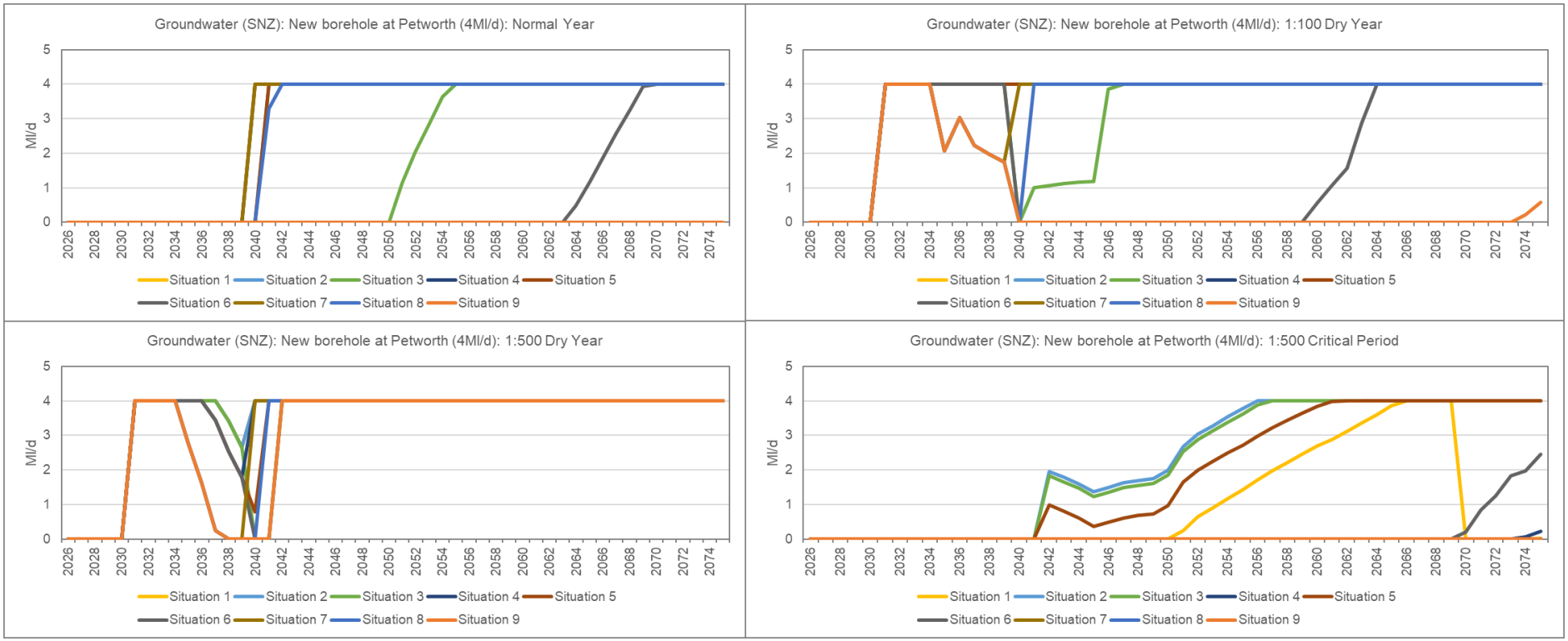

Figure 36: Utilisation of Petworth groundwater option in SNZ in each supply-demand situation under each planning scenario.

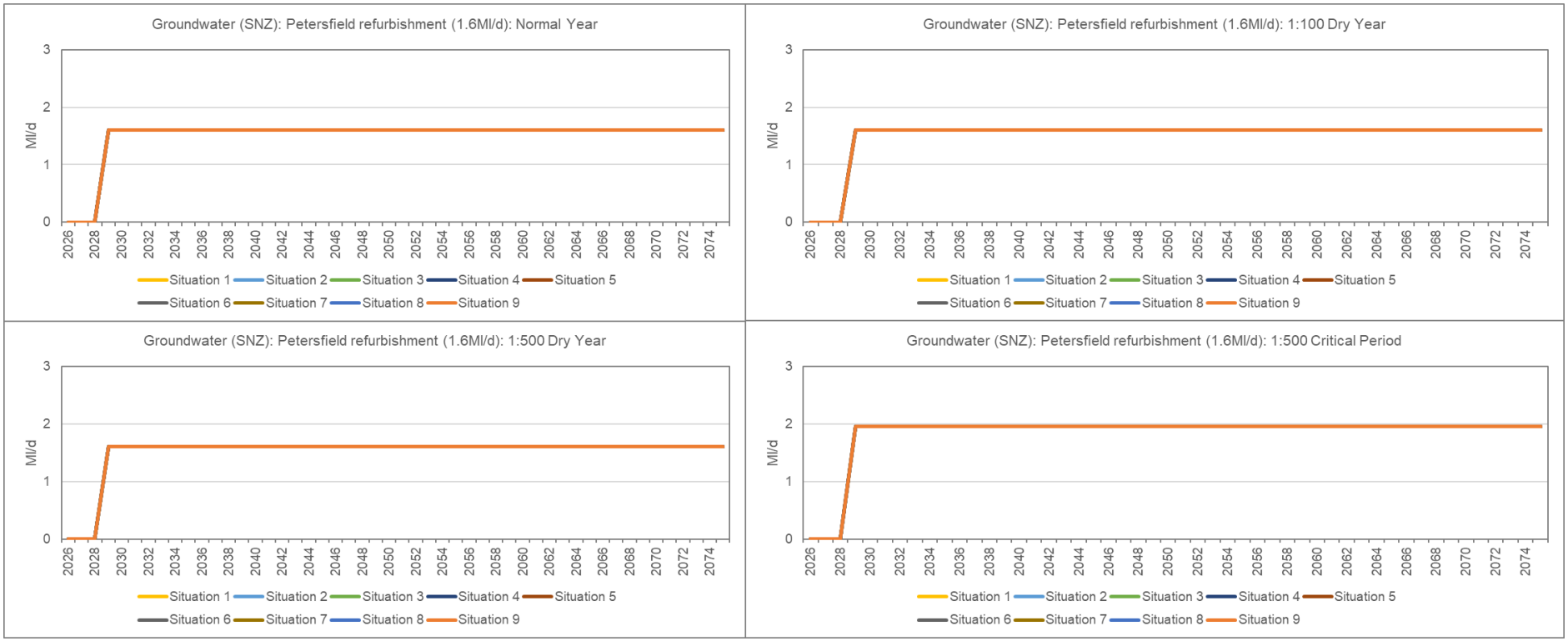

Figure 37: Utilisation of Rogate groundwater option in SNZ in each supply-demand situation under each planning scenario.

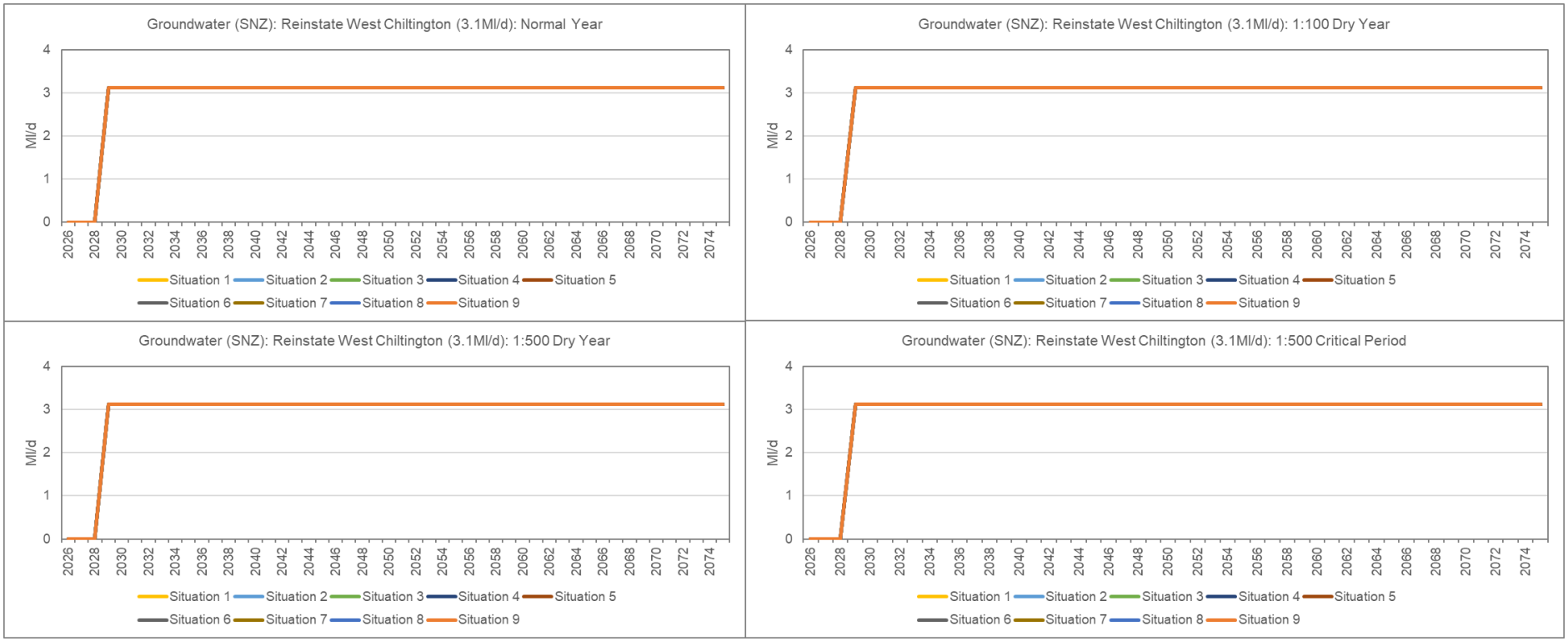

Figure 38: Utilisation of West Chiltington groundwater option in SNZ in each supply-demand situation under each planning scenario.

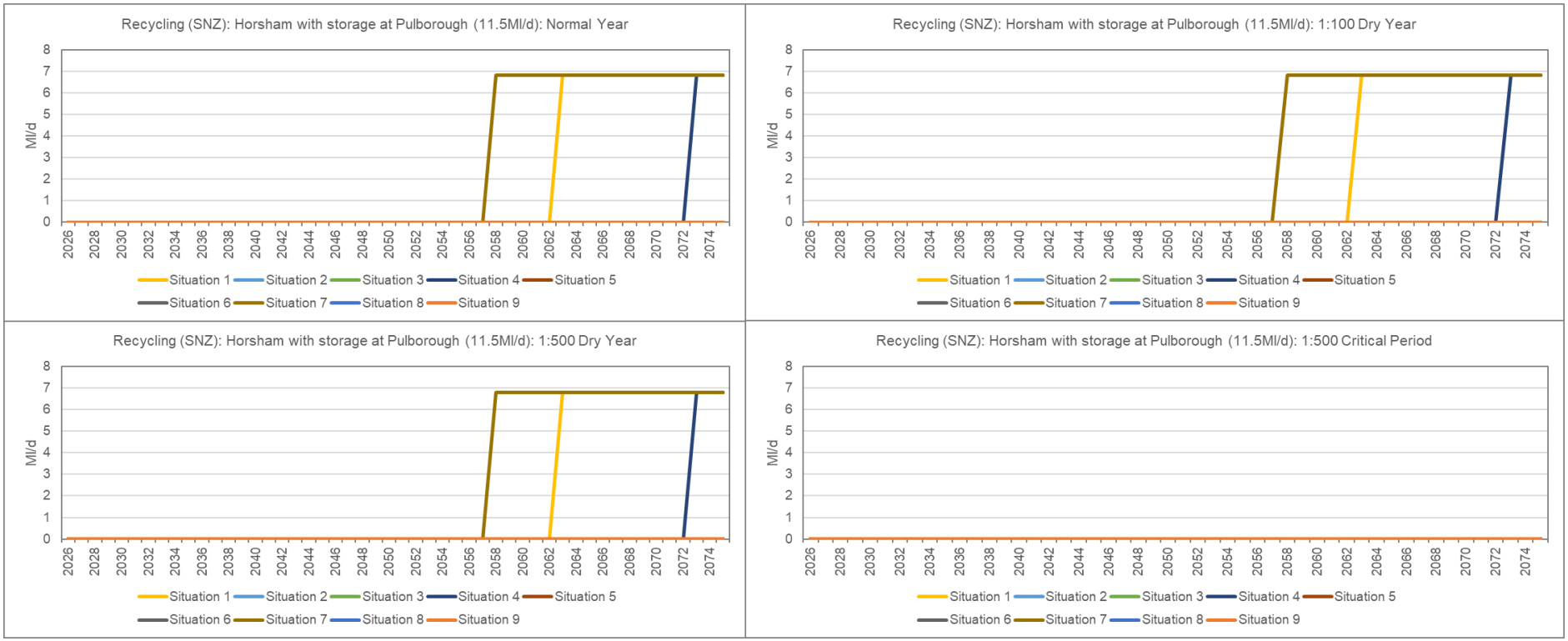

Figure 39: Utilisation of Horsham recycling option in SNZ in each supply-demand situation under each planning scenario.

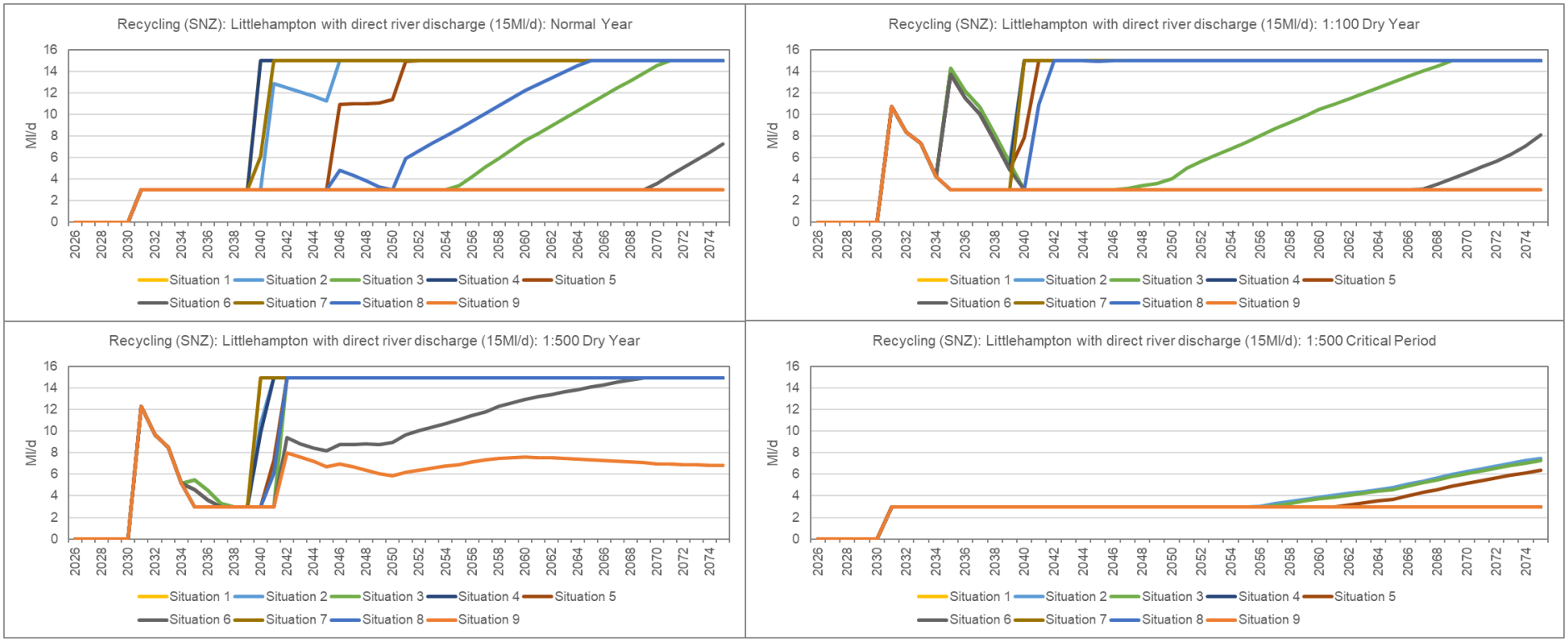

Figure 40: Utilisation of Littlehampton WTW recycling option in SNZ in each supply-demand situation under each planning scenario.

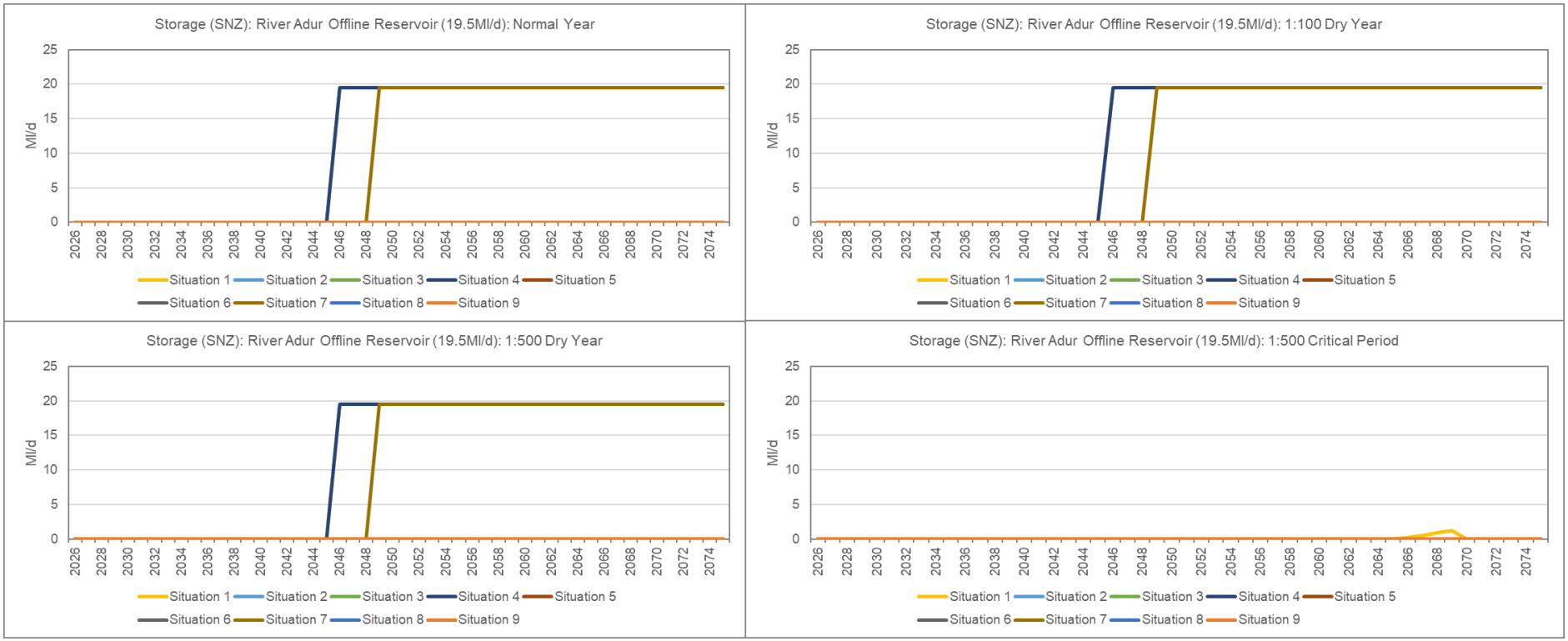

Figure 41: Utilisation of River Adur Offline Reservoir in SNZ in each supply-demand situation under each planning scenario.

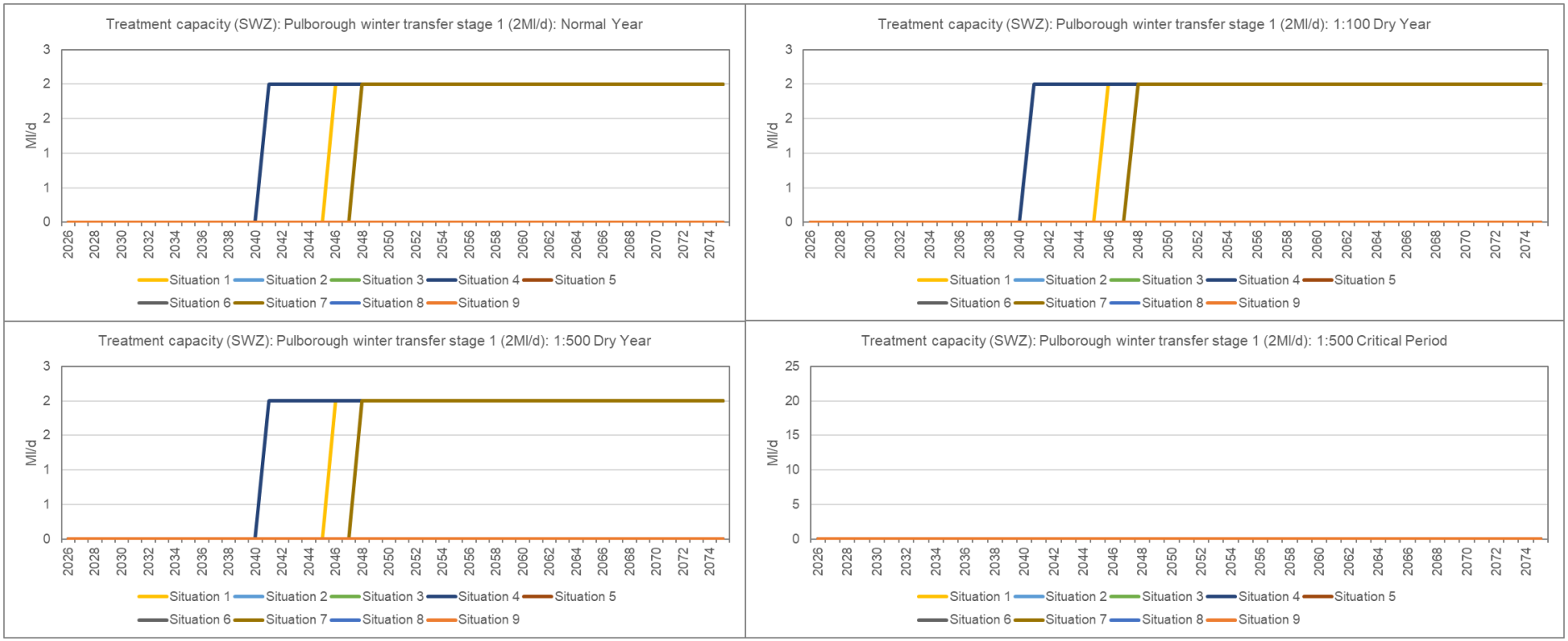

Figure 42: Utilisation of Pulborough winter transfer stage 1 option in SNZ in each supply-demand situation under each planning scenario.

2.4.3 Eastern area

Utilisation of supply-side options in the Western area is shown in Figure 43 to Figure 71, excluding interzonal transfers.

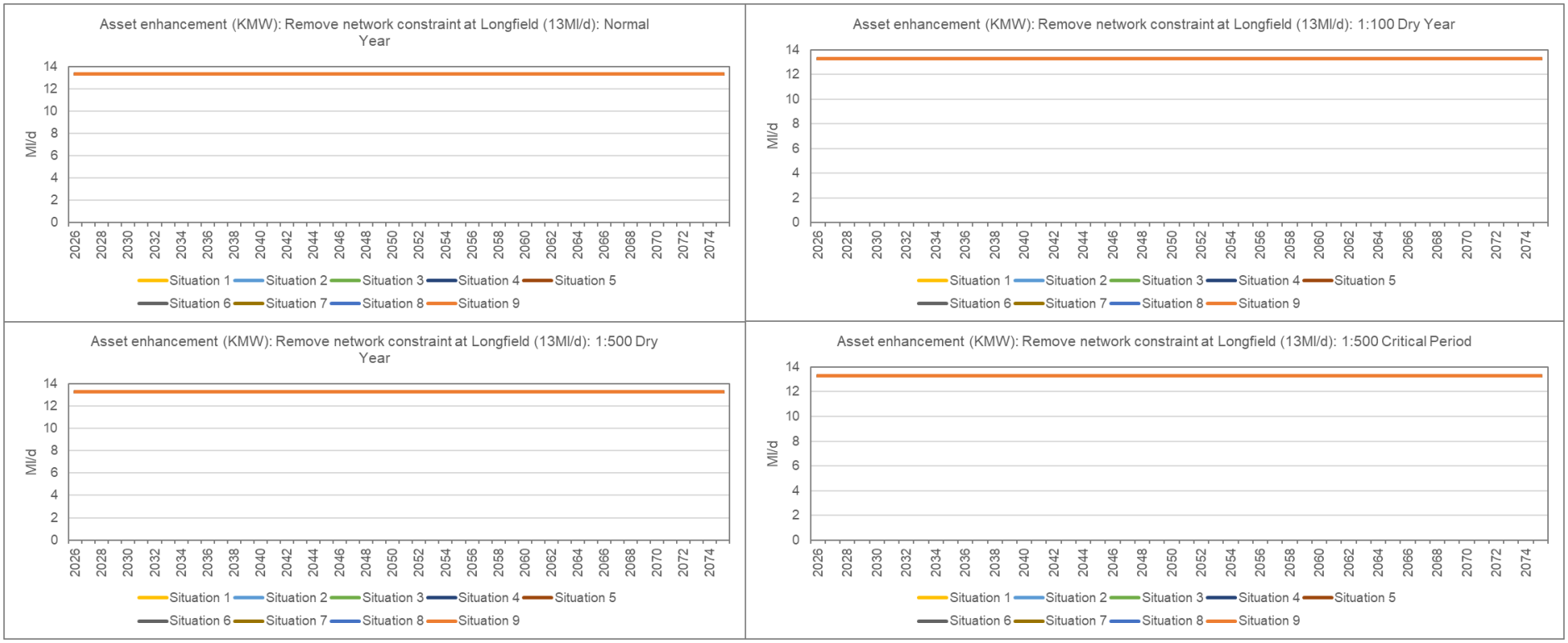

Figure 43: Utilisation of asset enhancement option in KMW in each supply-demand situation under each planning scenario.

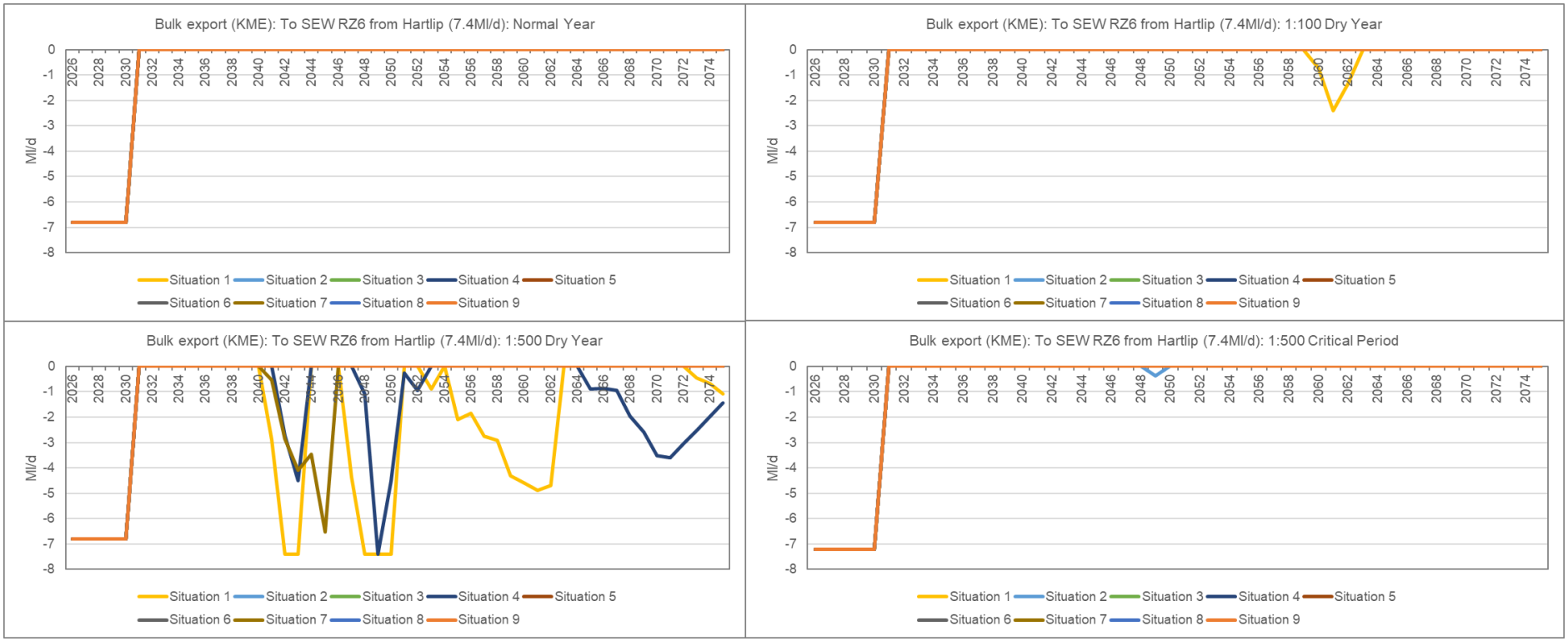

Figure 44: Utilisation of bulk export from KME to South East Water from Hartlip in each supply-demand situation under each planning scenario.

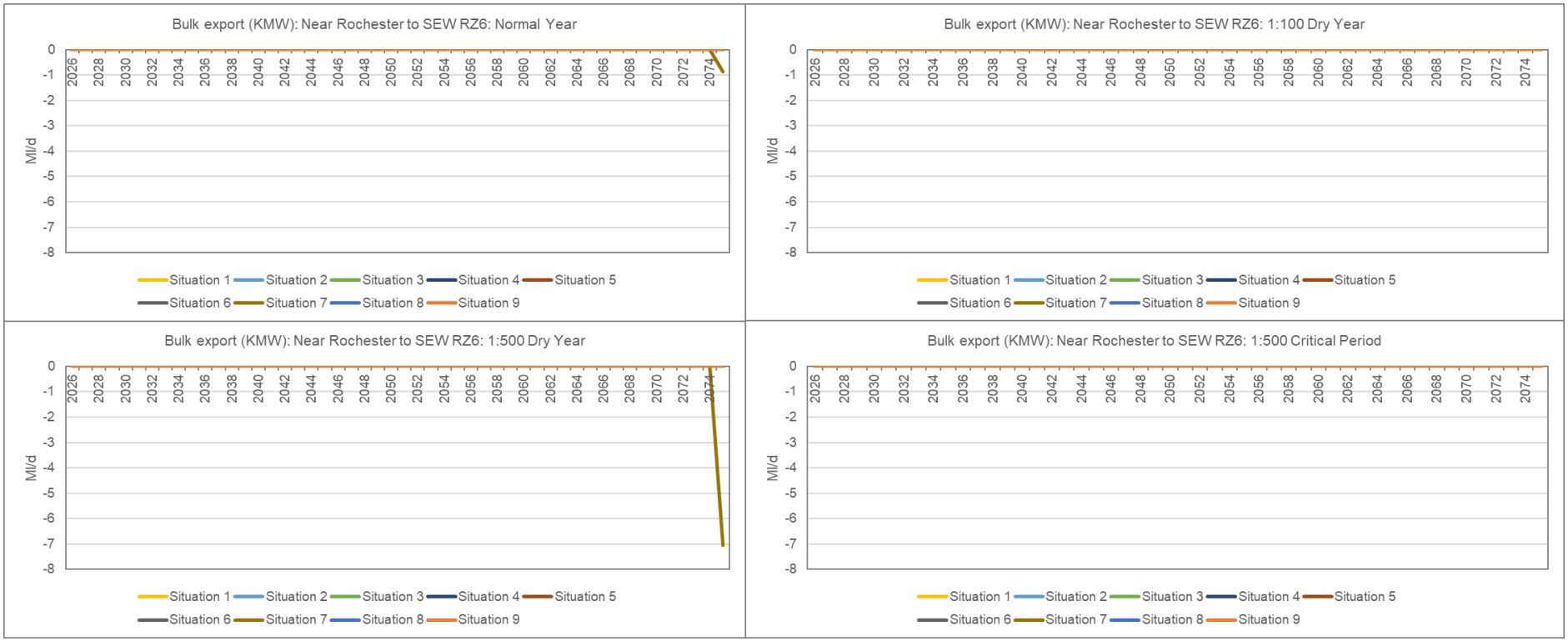

Figure 45: Utilisation of bulk export from KMW to South East Water Resource Zone 6 in each supply-demand situation under each planning scenario.

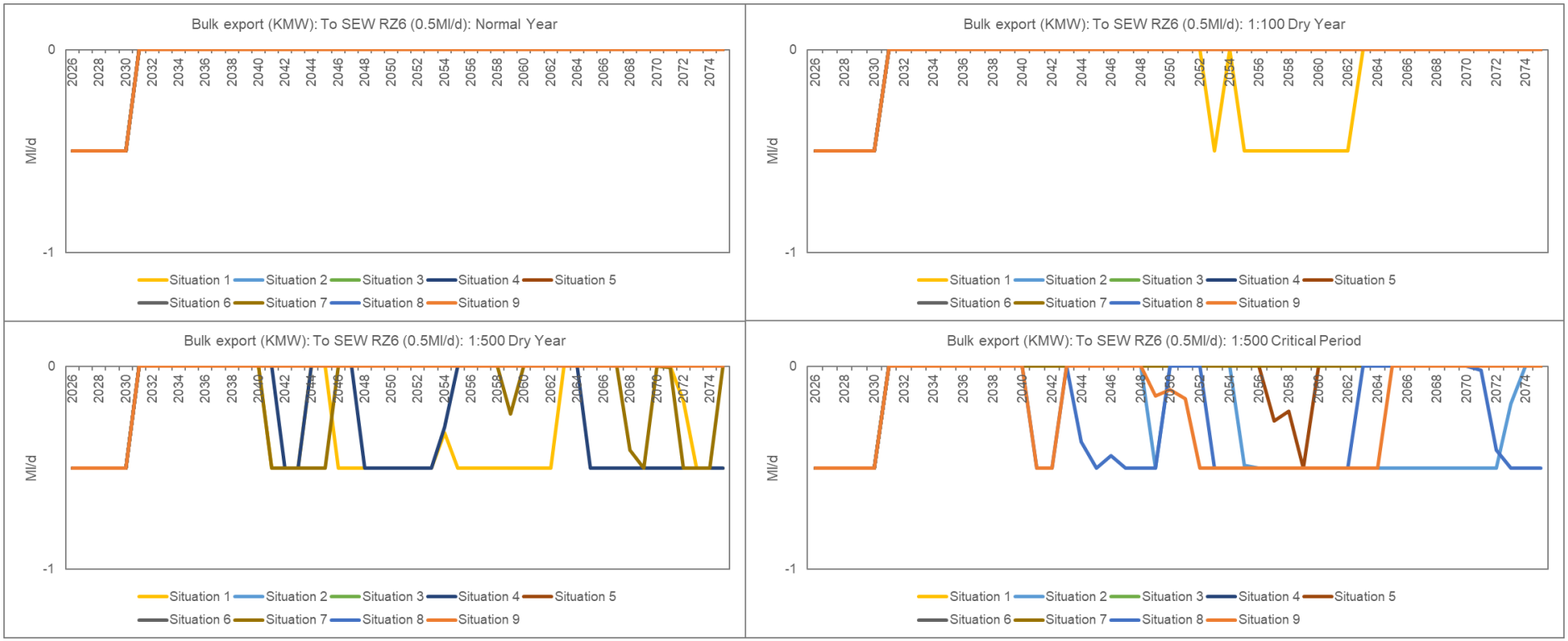

Figure 46: Utilisation of bulk export from KMW to South East Water at Pitfield in each supply-demand situation under each planning scenario.

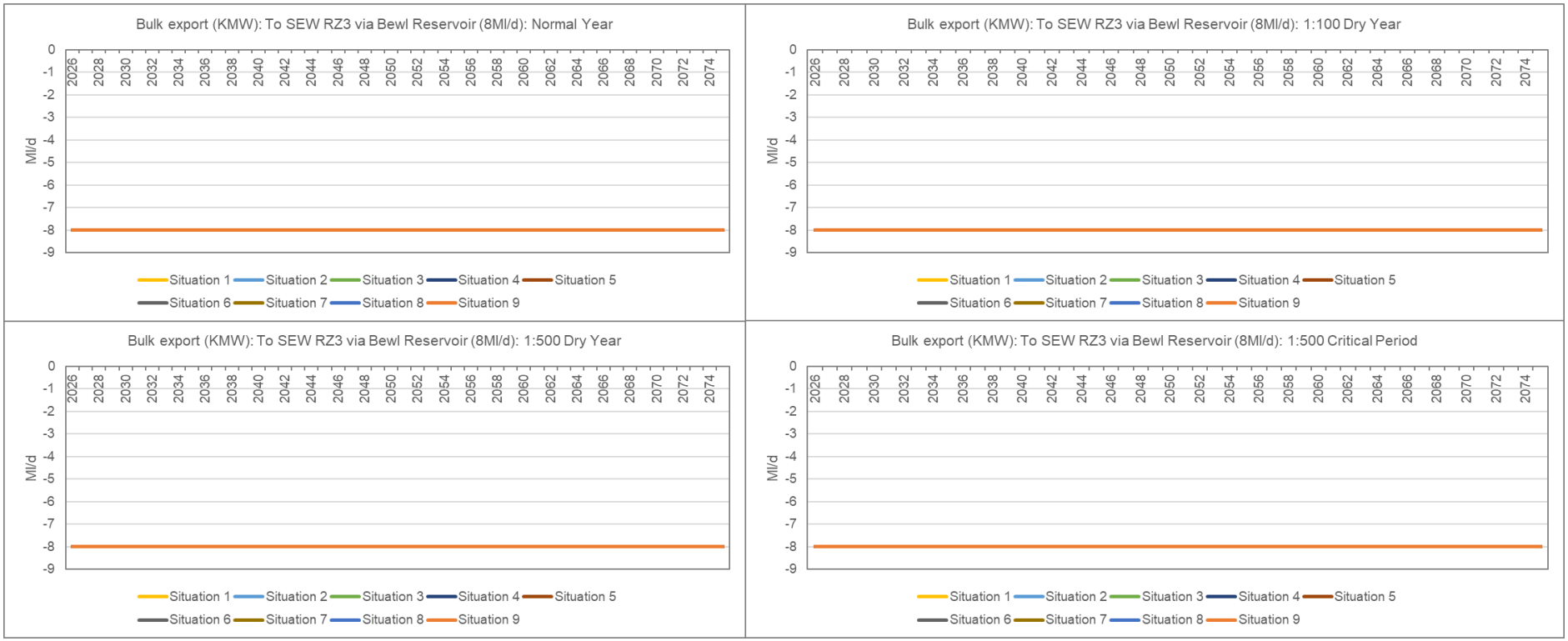

Figure 47: Utilisation of bulk export from KMW to South East Water through the Bewl-Darwell system in each supply-demand situation under each planning scenario.

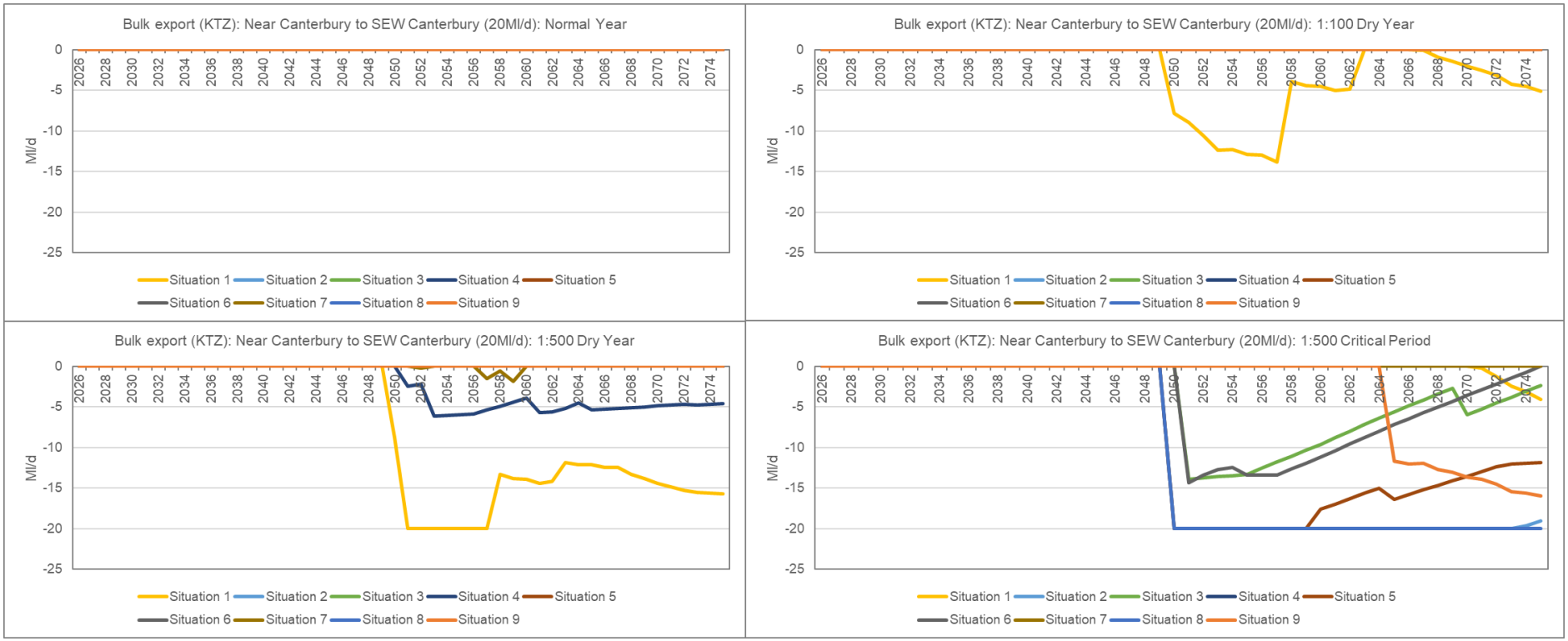

Figure 48: Utilisation of bulk export from KTZ to South East Water in each supply-demand situation under each planning scenario.

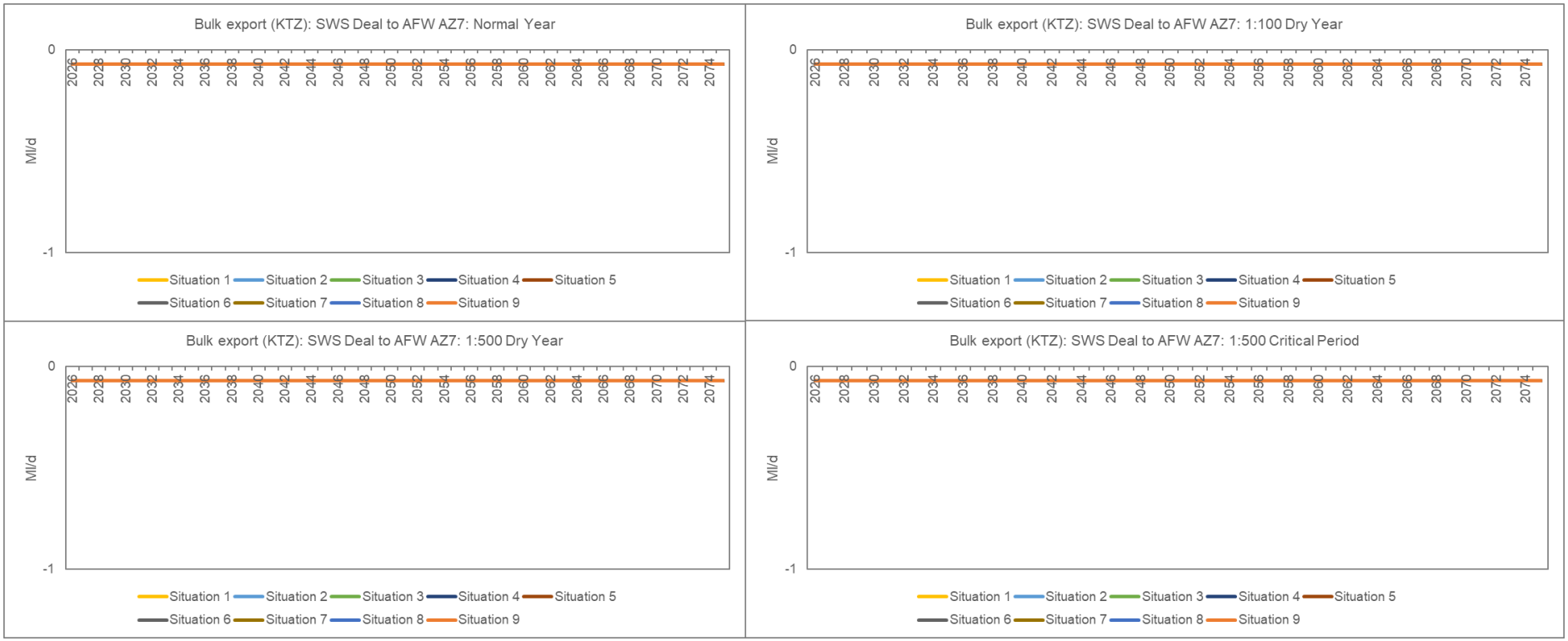

Figure 49: Utilisation of bulk export from KTZ to Affinity Water from Deal in each supply-demand situation under each planning scenario.

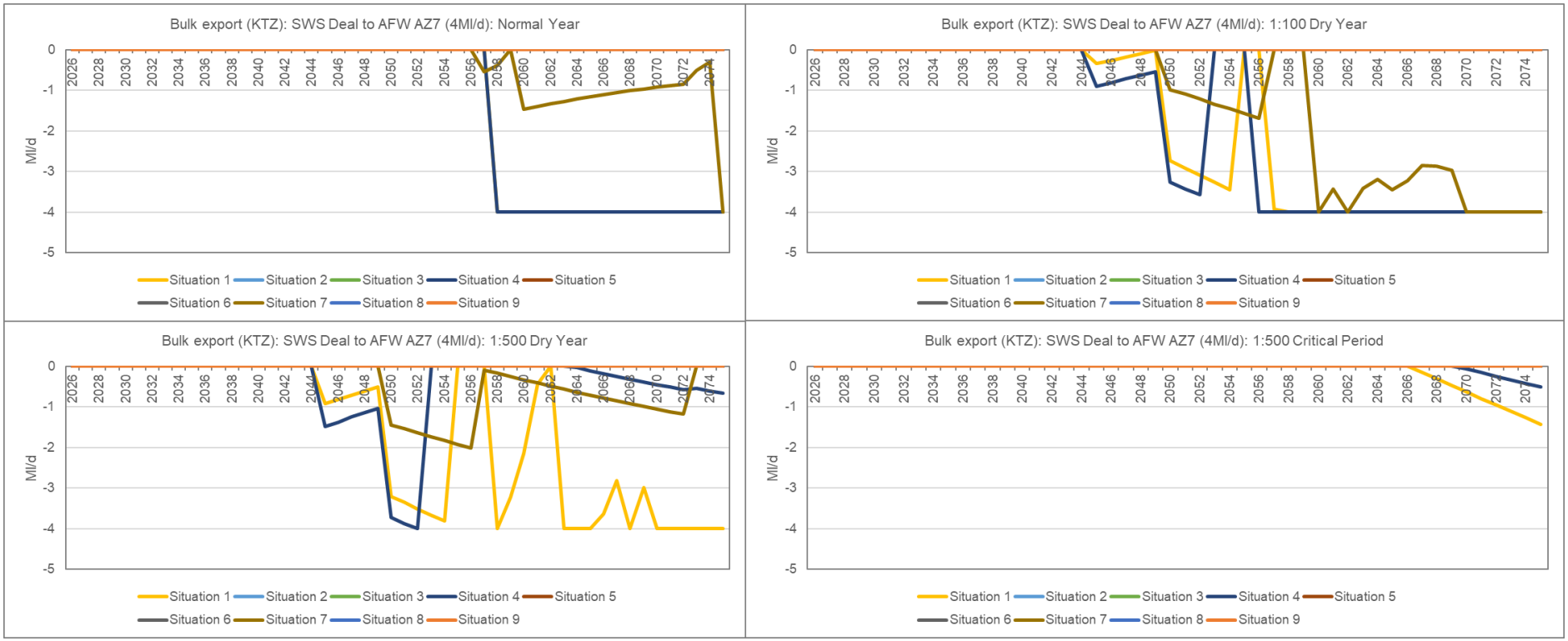

Figure 50: Utilisation of bulk export from KTZ to Affinity Water from Deal in each supply-demand situation under each planning scenario.

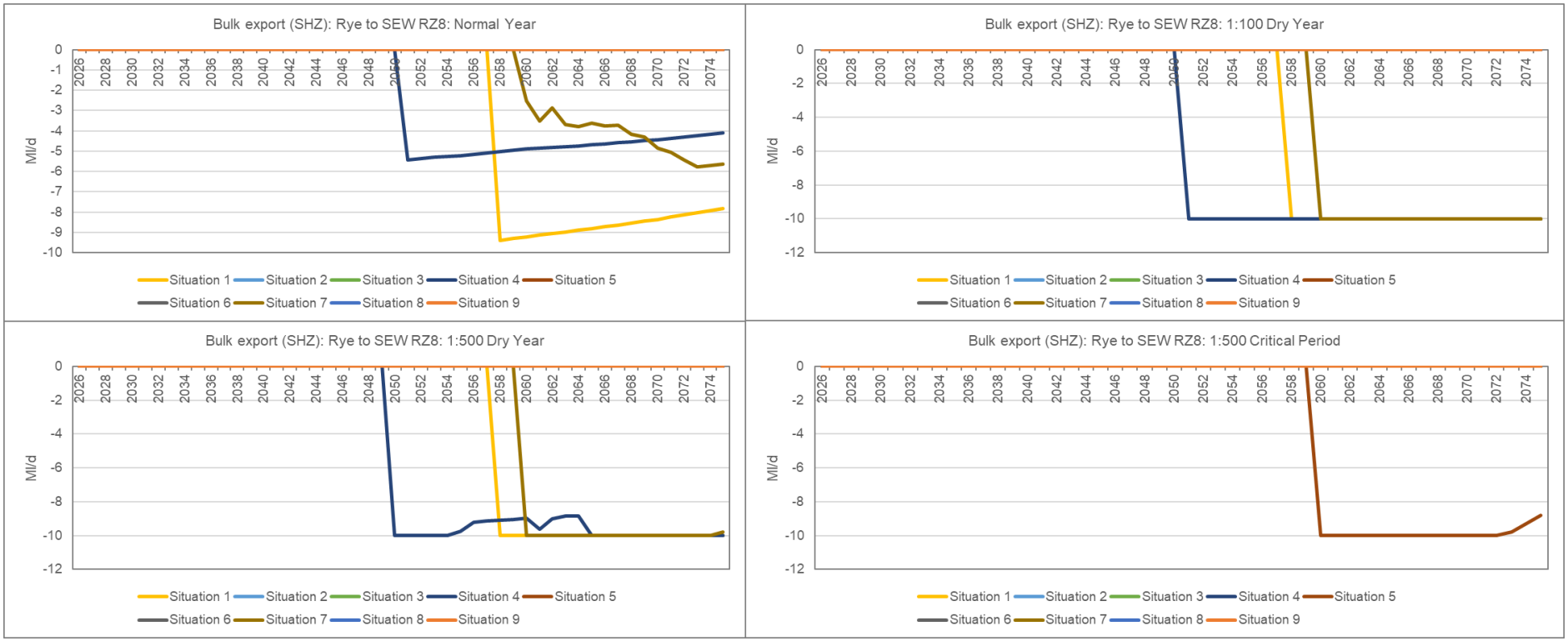

Figure 51: Utilisation of bulk export from SHZ to South East Water at Kingsnorth in each supply-demand situation under each planning scenario.

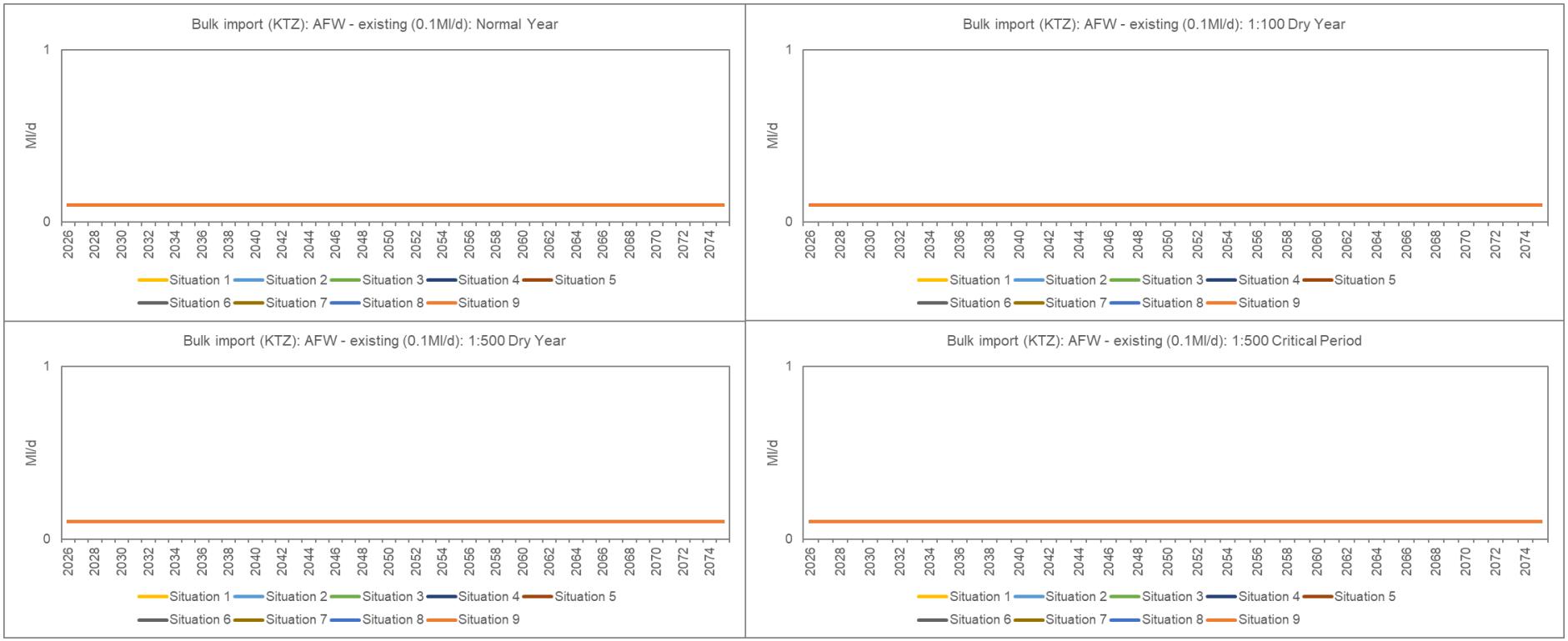

Figure 52: Utilisation of bulk import from Affinity Water to KTZ in each supply-demand situation under each planning scenario.

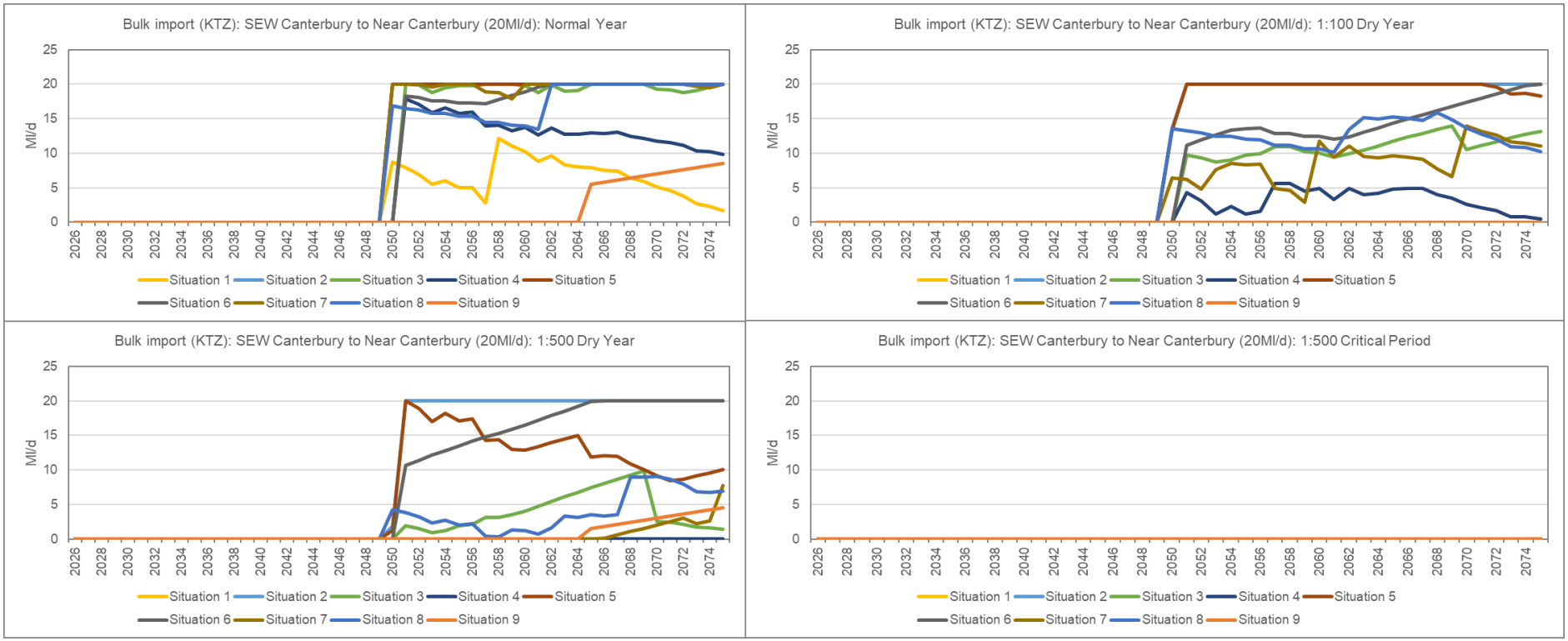

Figure 53: Utilisation of bulk import from South East Water to Near Canterbury in KTZ in each supply-demand situation under each planning scenario.

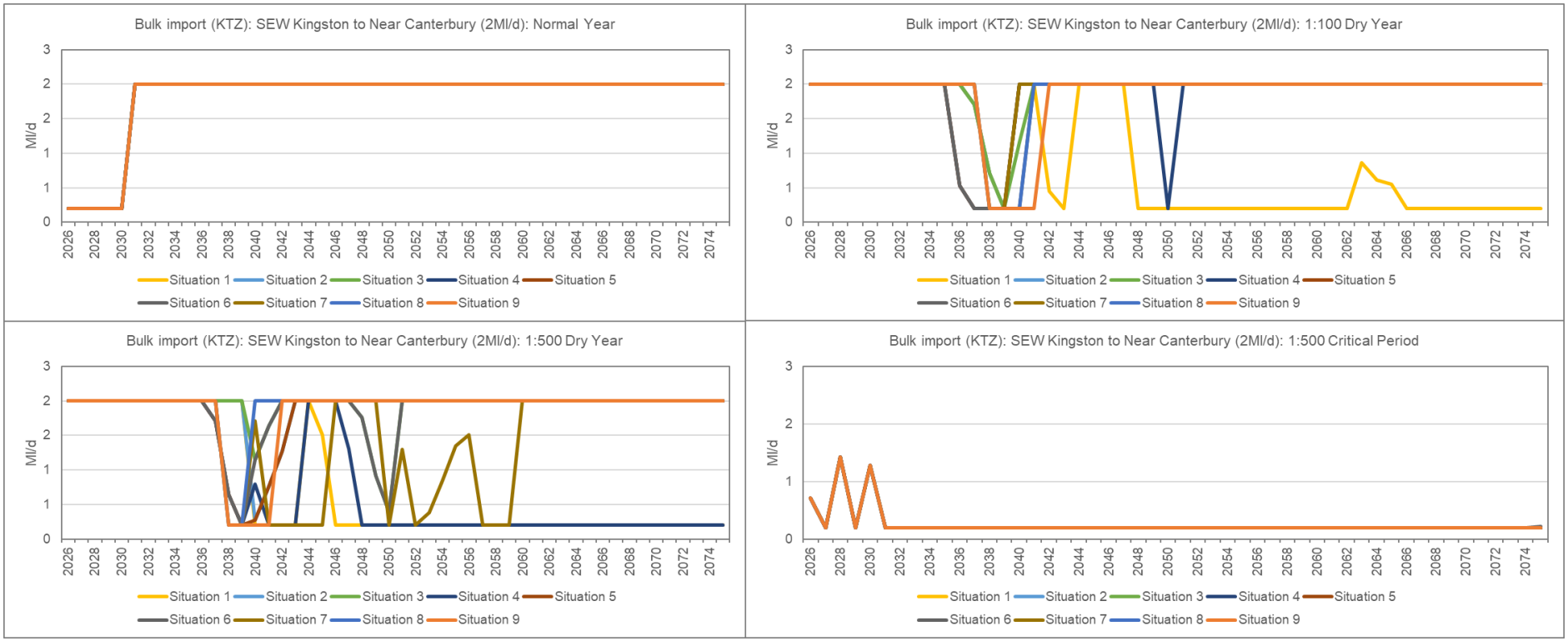

Figure 54: Utilisation of bulk import from South East Water near Kingston to KTZ in each supply-demand situation under each planning scenario.

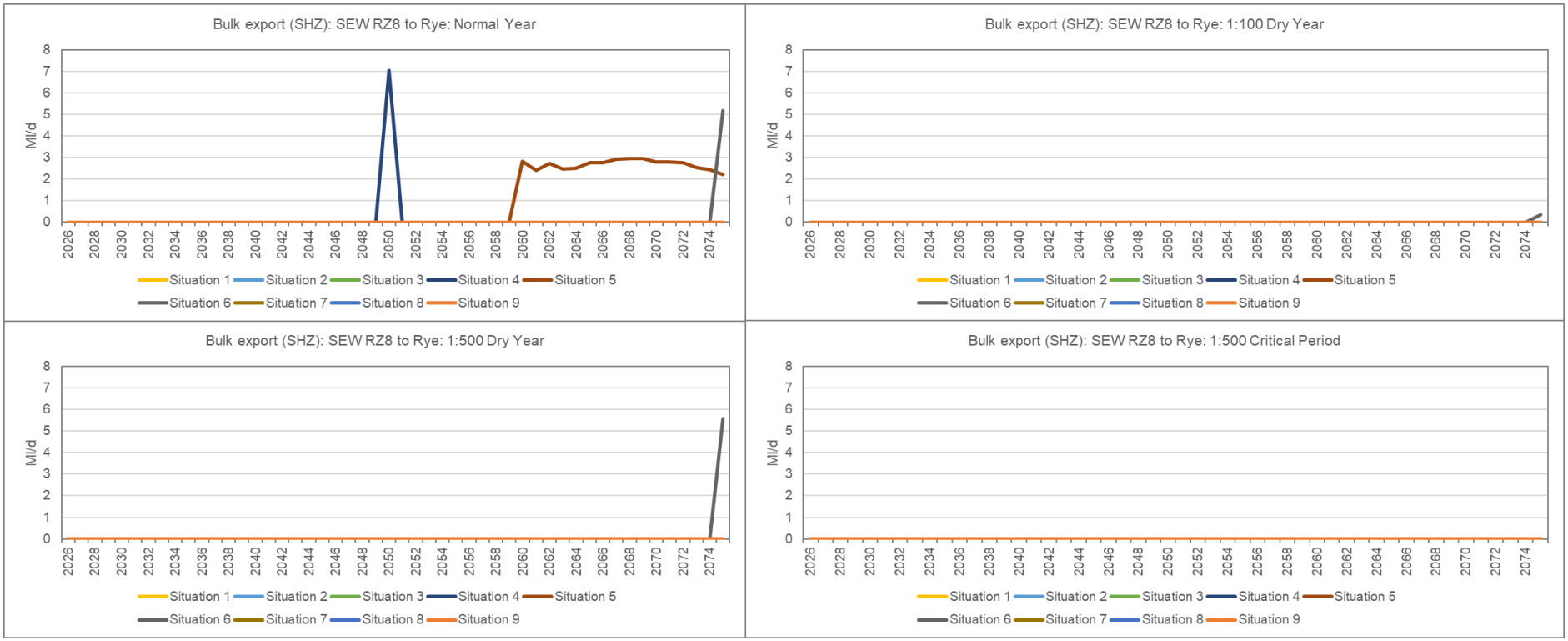

Figure 55: Utilisation of bulk import from South East Water to SHZ near Rye in each supply-demand situation under each planning scenario.

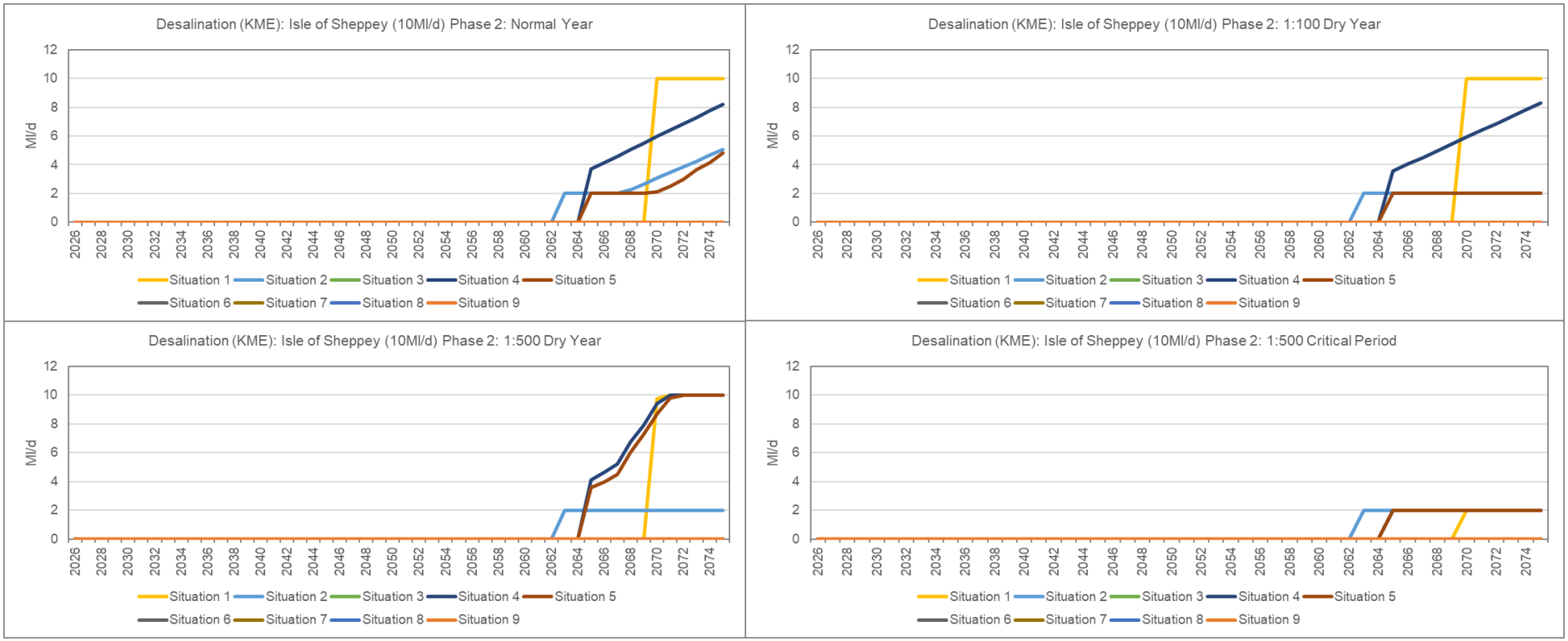

Figure 56: Utilisation of Isle of Sheppey desalination option (10Ml/d) in KME in each supply-demand situation under each planning scenario.

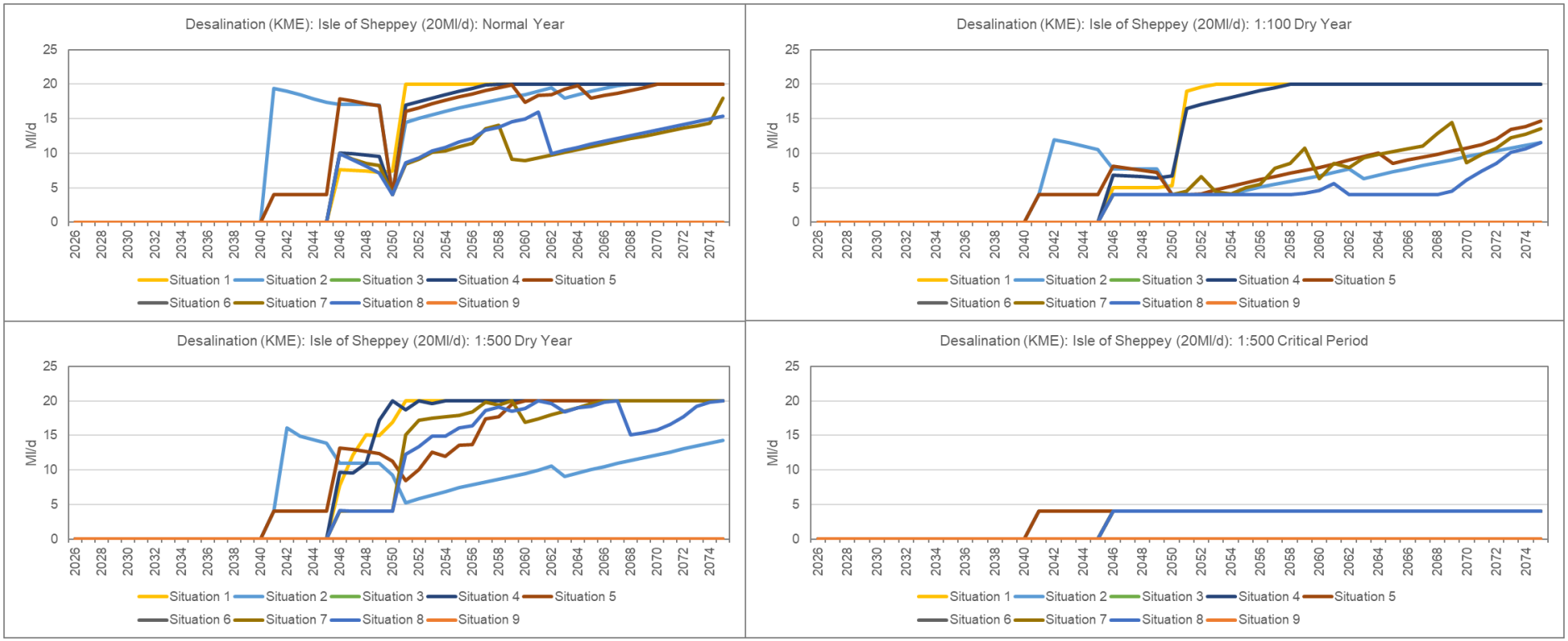

Figure 57: Utilisation of Isle of Sheppey desalination option in KME in each supply-demand situation under each planning scenario.

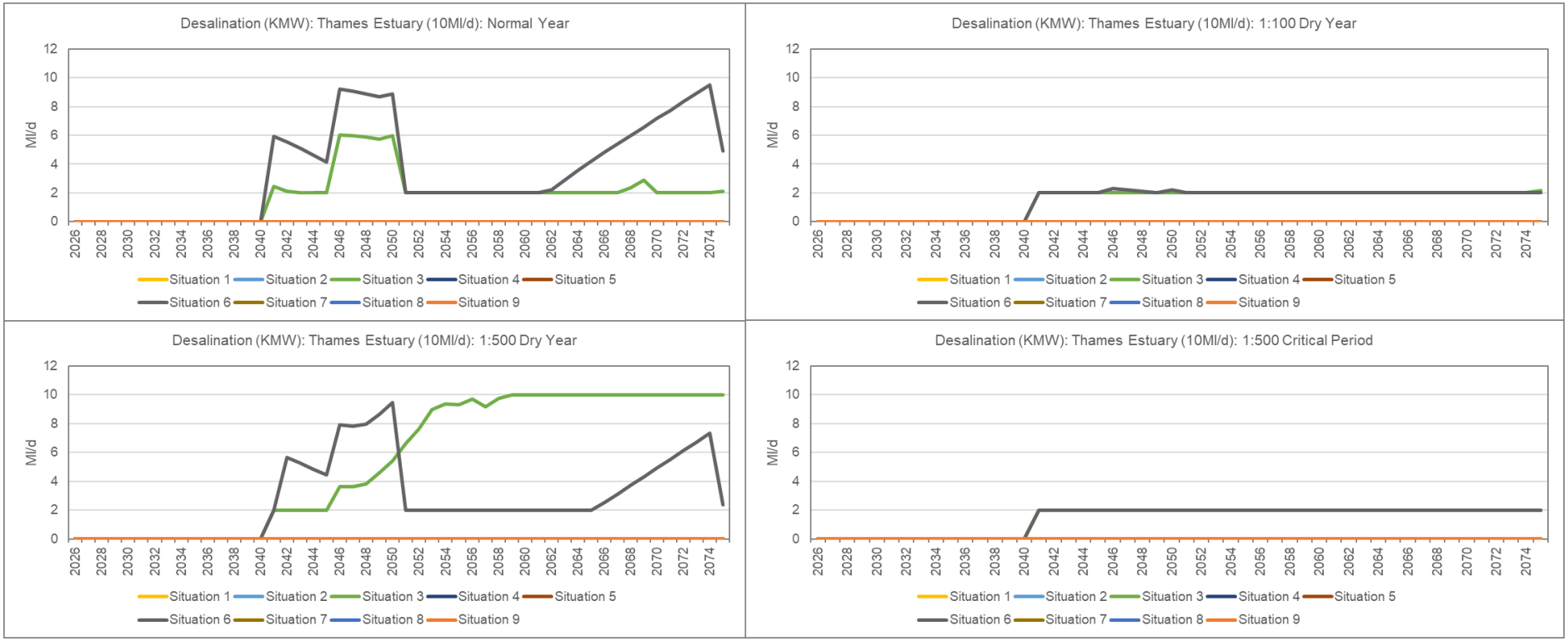

Figure 58: Utilisation of Thames Estuary desalination option (10Ml/d) in KMW in each supply-demand situation under each planning scenario.

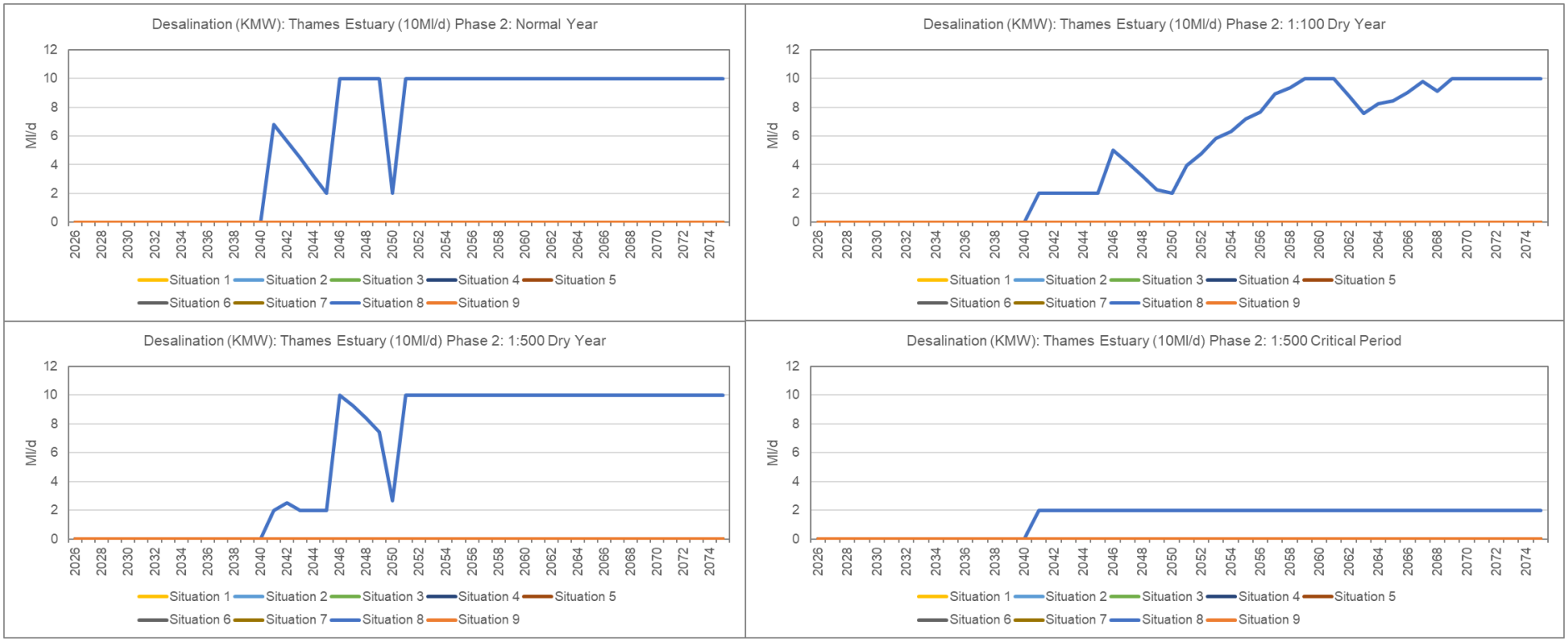

Figure 59: Utilisation of Thames Estuary desalination option (10Ml/d Phase 2) in KMW in each supply-demand situation under each planning scenario.

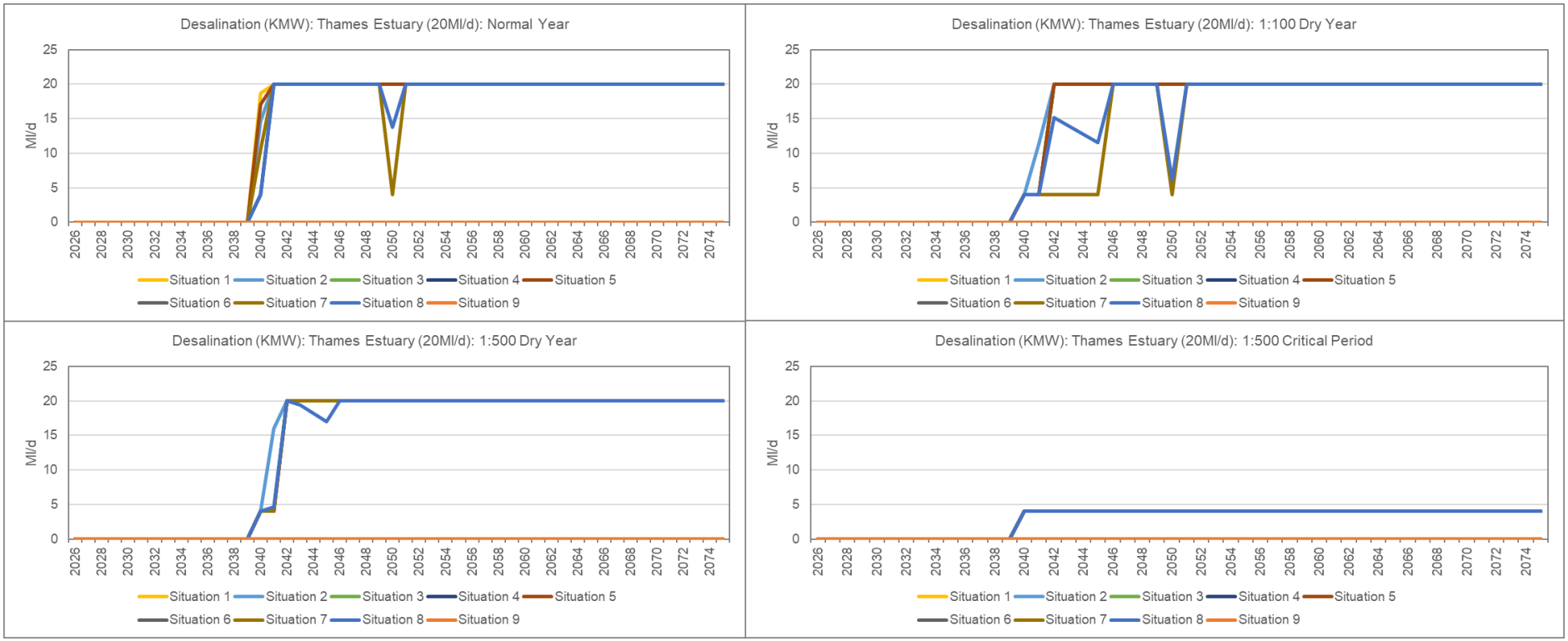

Figure 60: Utilisation of Thames Estuary desalination option (20Ml/d) in KMW in each supply-demand situation under each planning scenario.

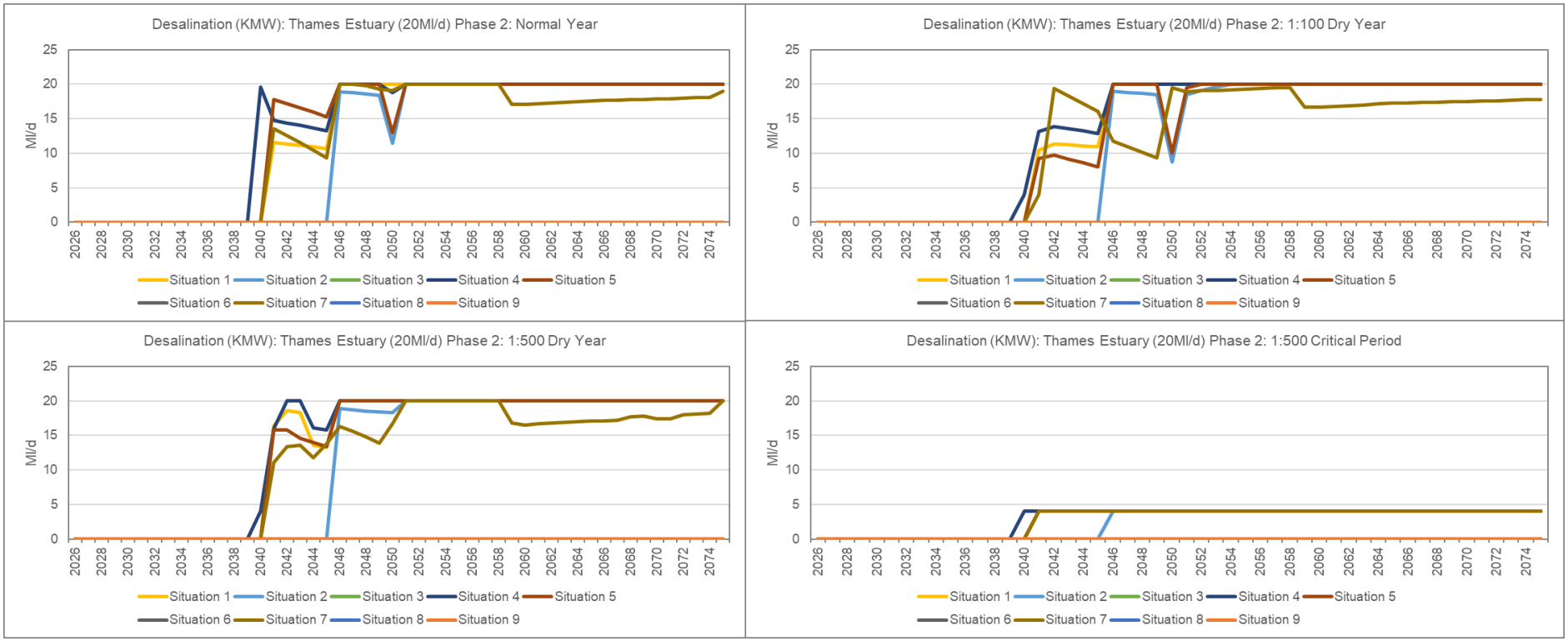

Figure 61: Utilisation of Thames Estuary desalination option (20Ml/d Phase 2) in KMW in each supply-demand situation under each planning scenario.

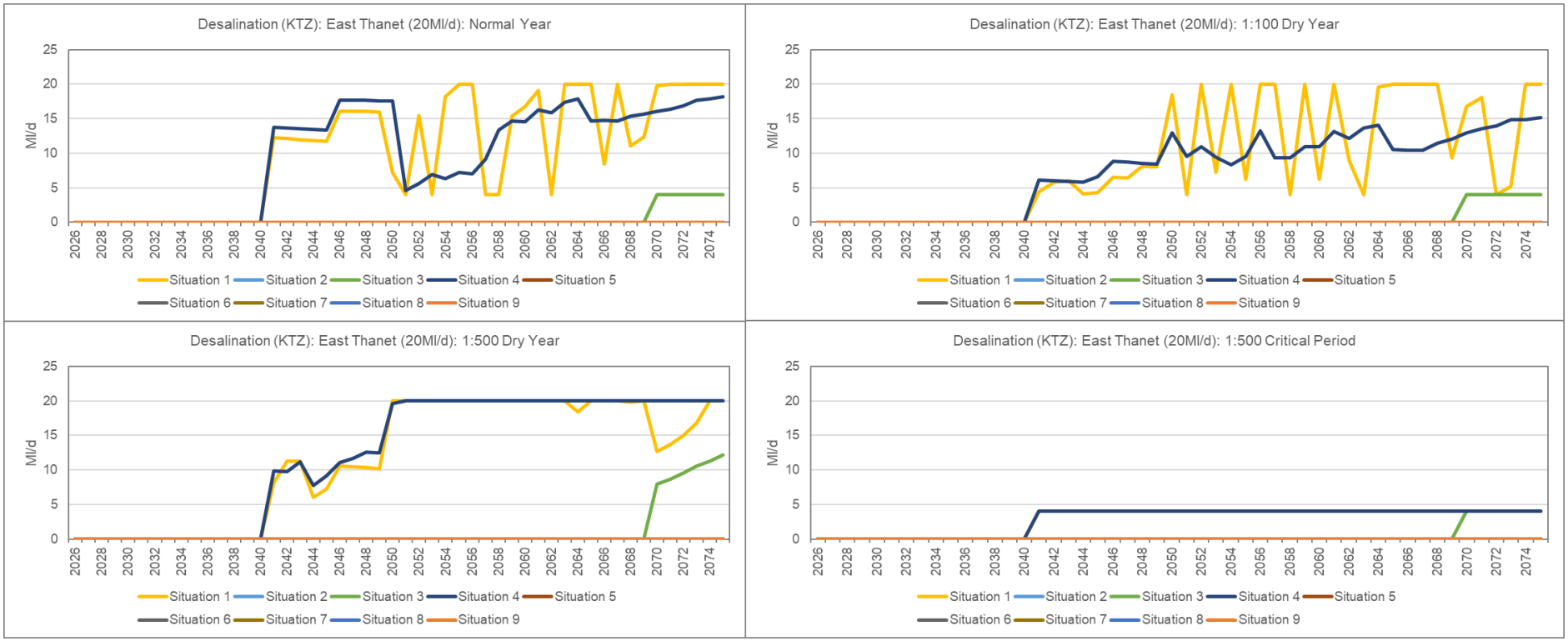

Figure 62: Utilisation of East Thanet desalination option (20Ml/d) in KTZ in each supply-demand situation under each planning scenario.

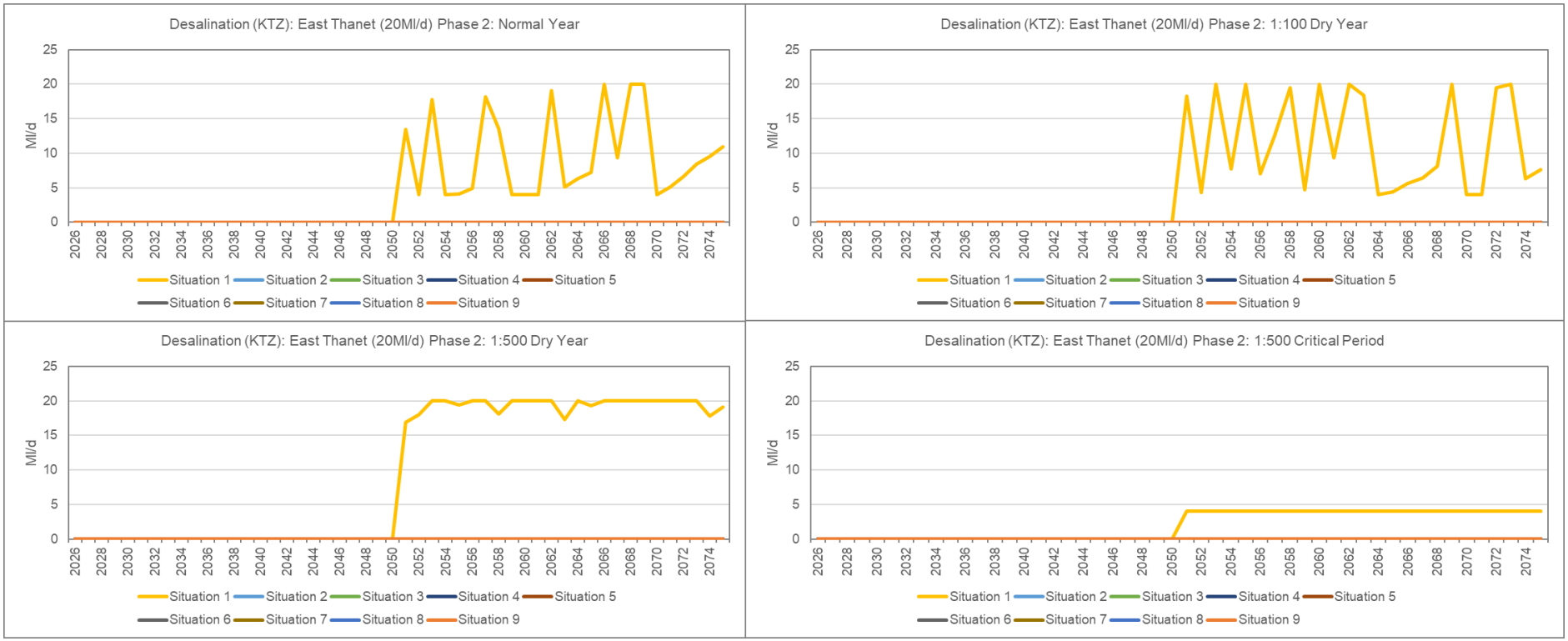

Figure 63: Utilisation of East Thanet desalination option (20Ml/d Phase 2) in KTZ in each supply-demand situation under each planning scenario.

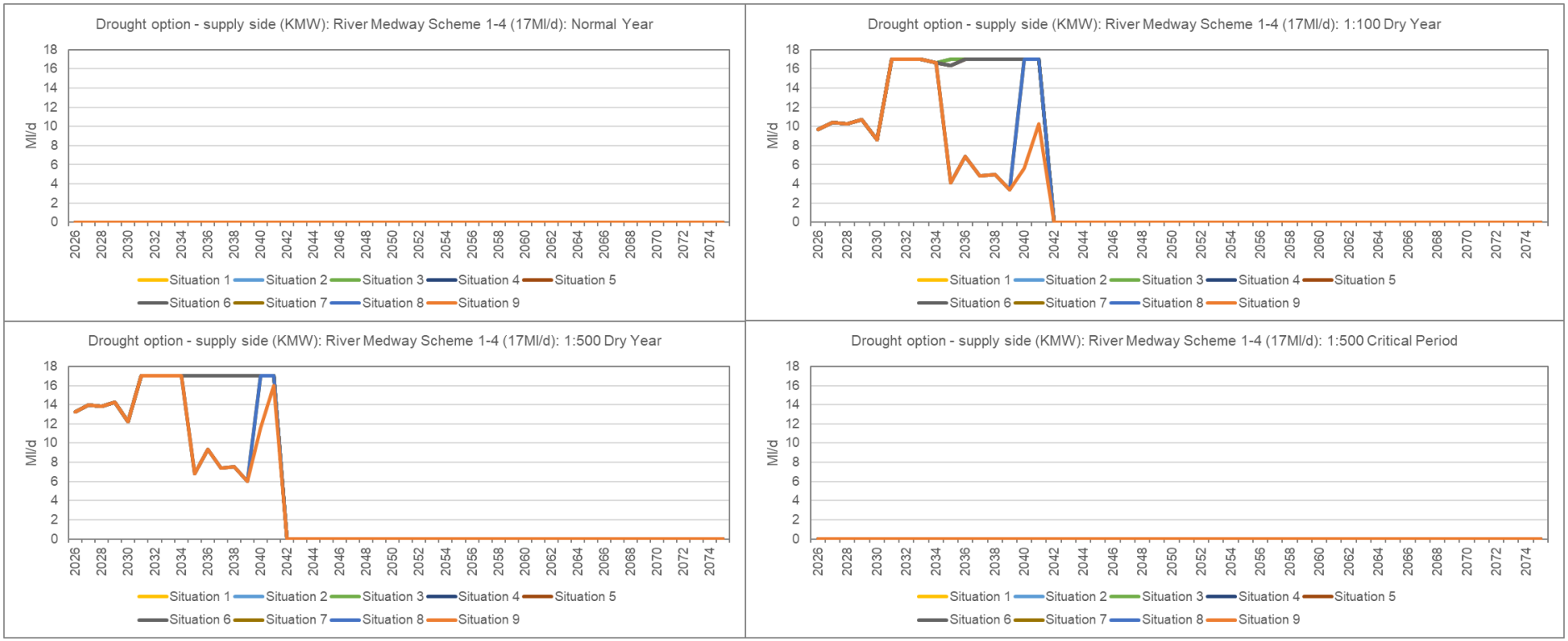

Figure 64: Utilisation of River Medway Scheme in KMW in each supply-demand situation under each planning scenario.

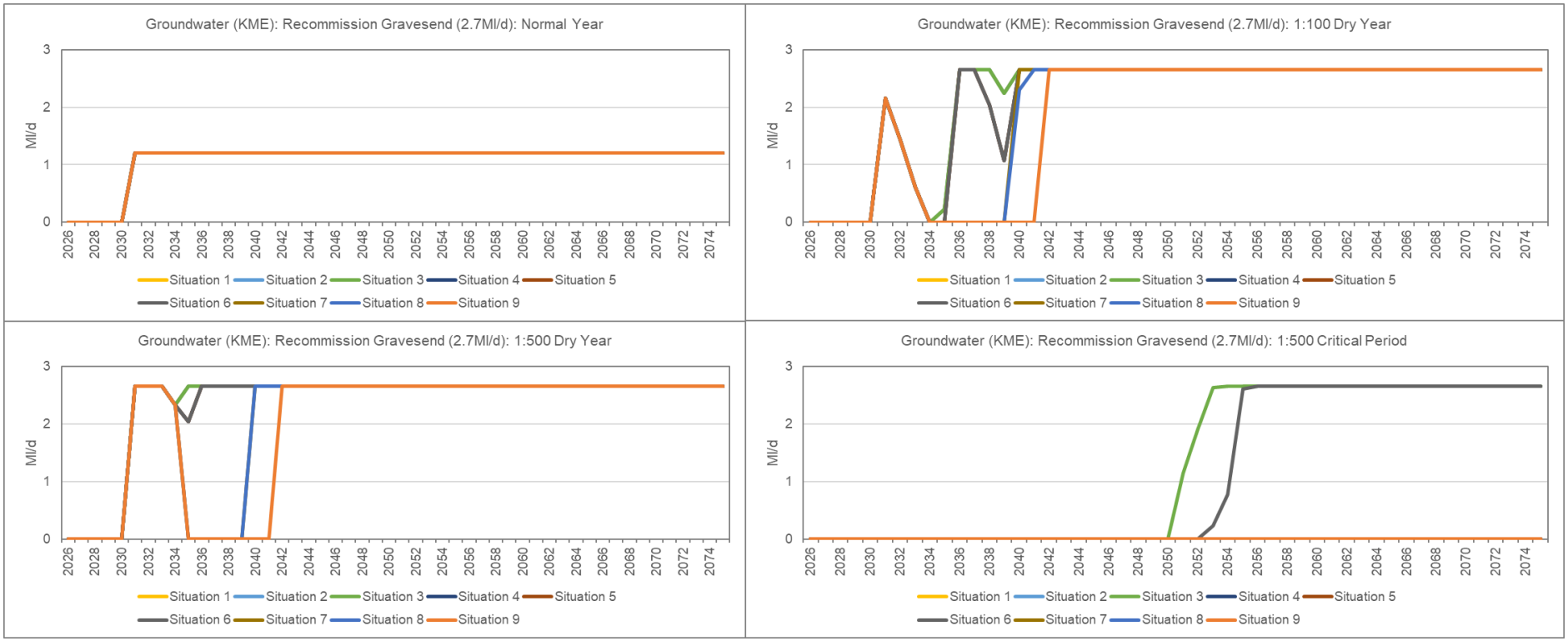

Figure 65: Utilisation of Gravesend groundwater option in KME in each supply-demand situation under each planning scenario.

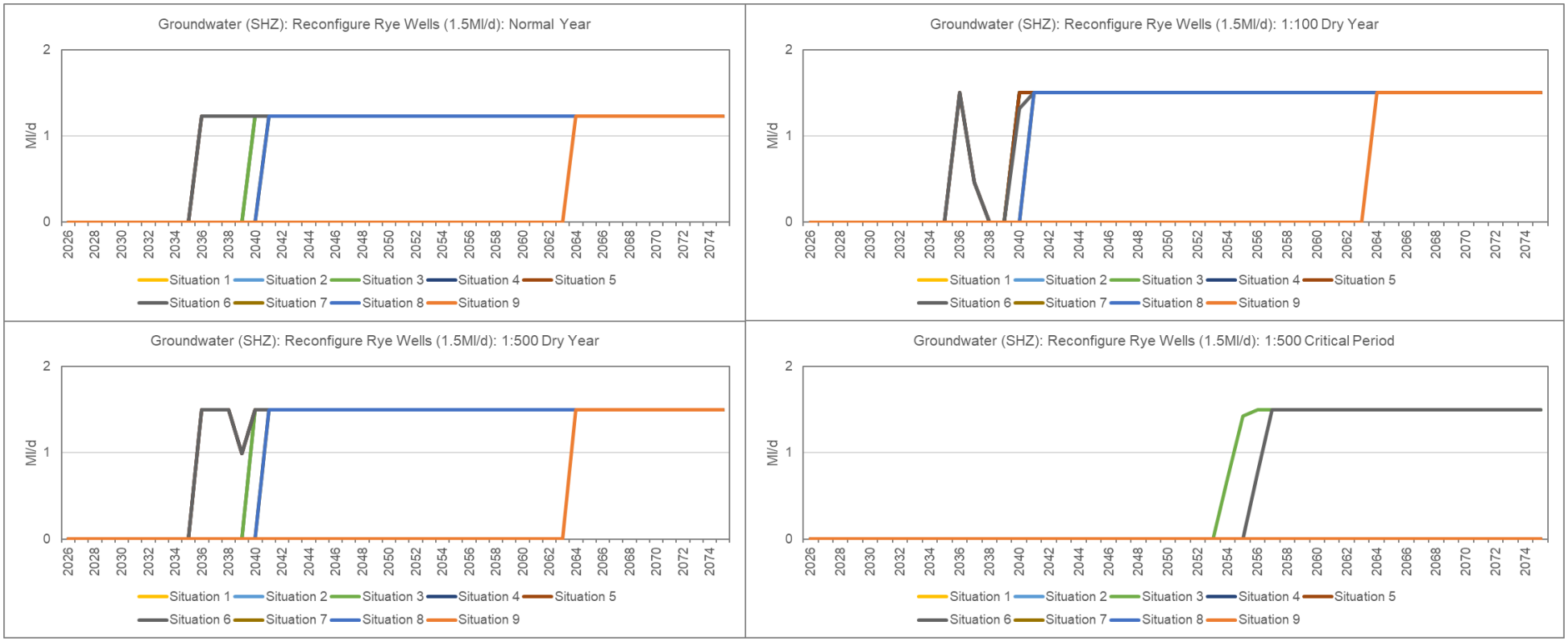

Figure 66: Utilisation of Rye Wells groundwater option in SHZ in each supply-demand situation under each planning scenario.

Figure 67: Utilisation of Sittingbourne industrial water reuse option in KME in each supply-demand situation under each planning scenario.

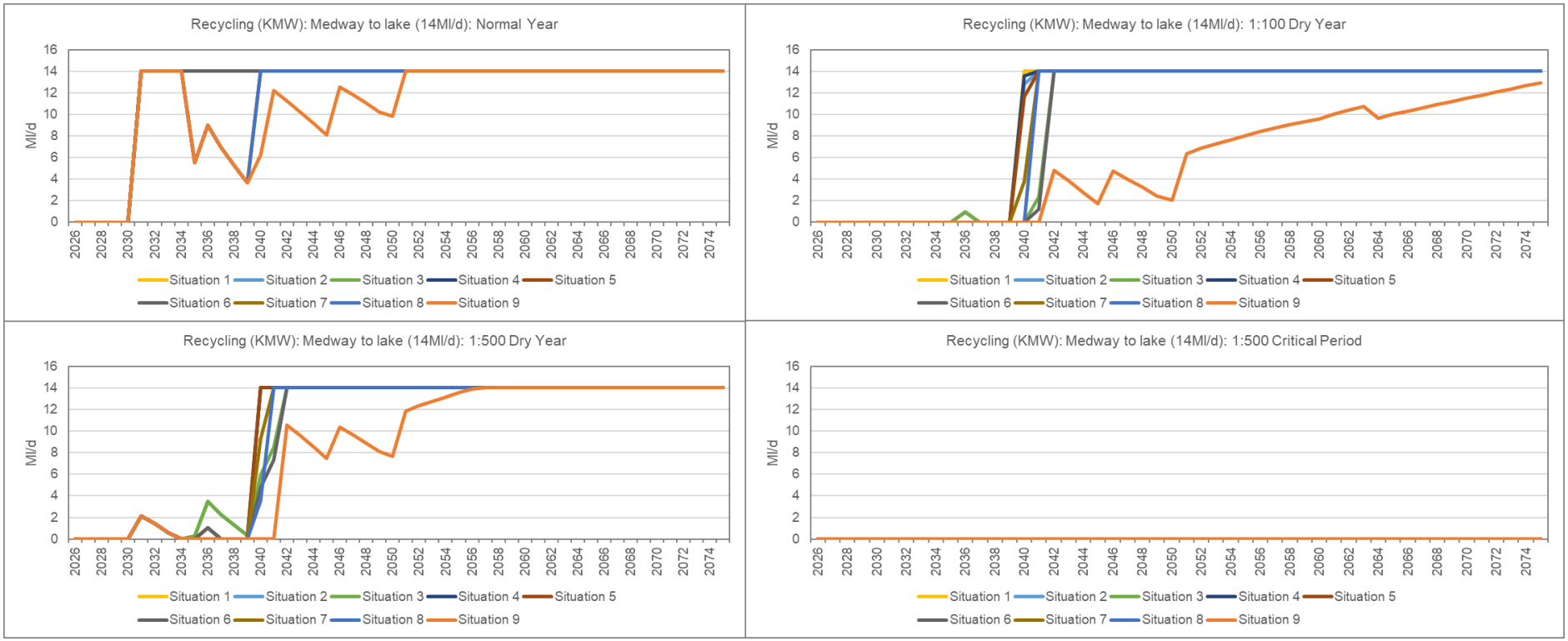

Figure 68: Utilisation of Medway recycling option in KMW in each supply-demand situation under each planning scenario.

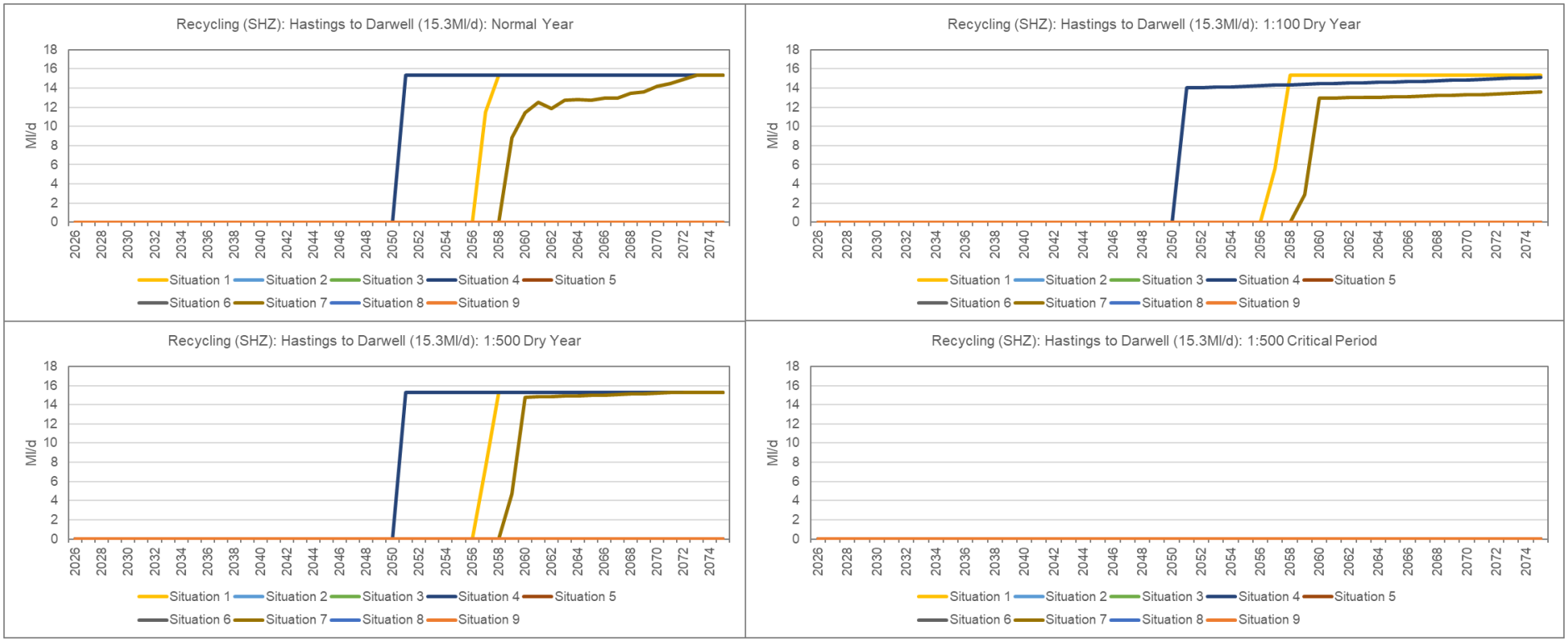

Figure 69: Utilisation of Hastings recycling option in SHZ in each supply-demand situation under each planning scenario.

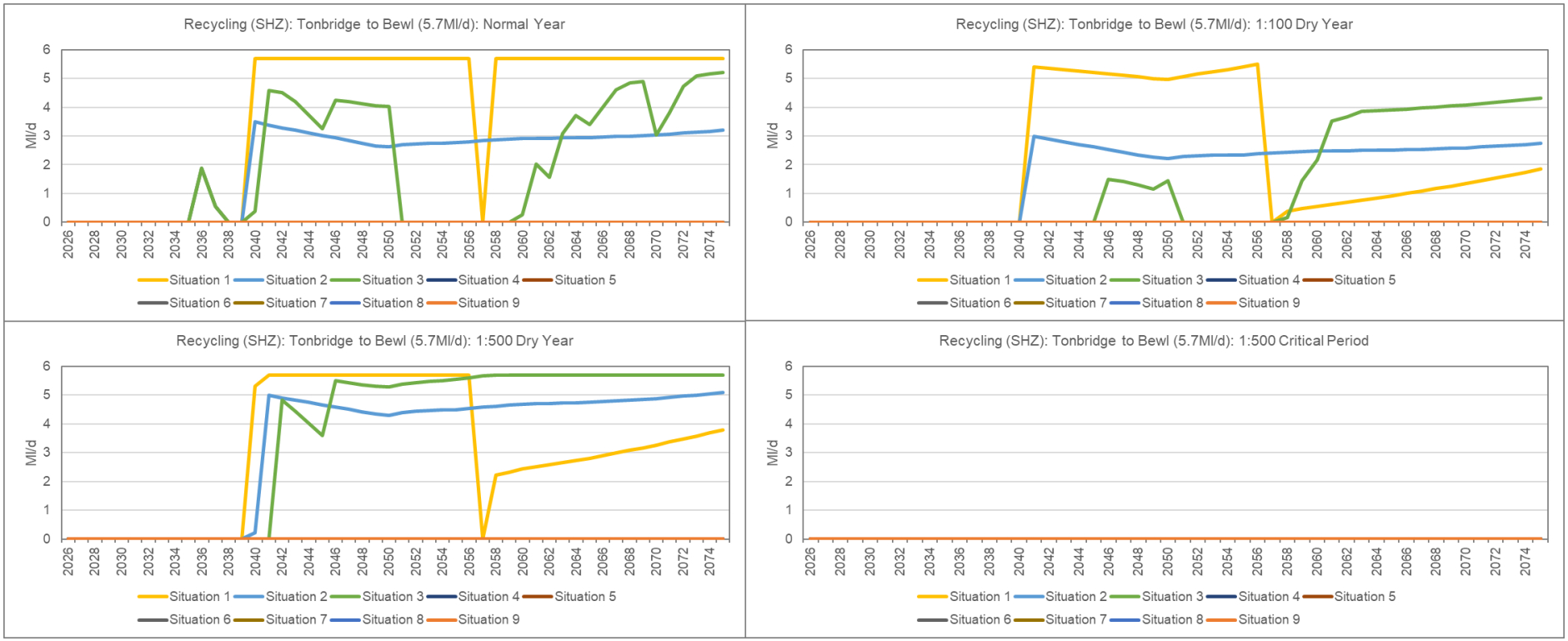

Figure 70: Utilisation of Tonbridge recycling option in SHZ in each supply-demand situation under each planning scenario.

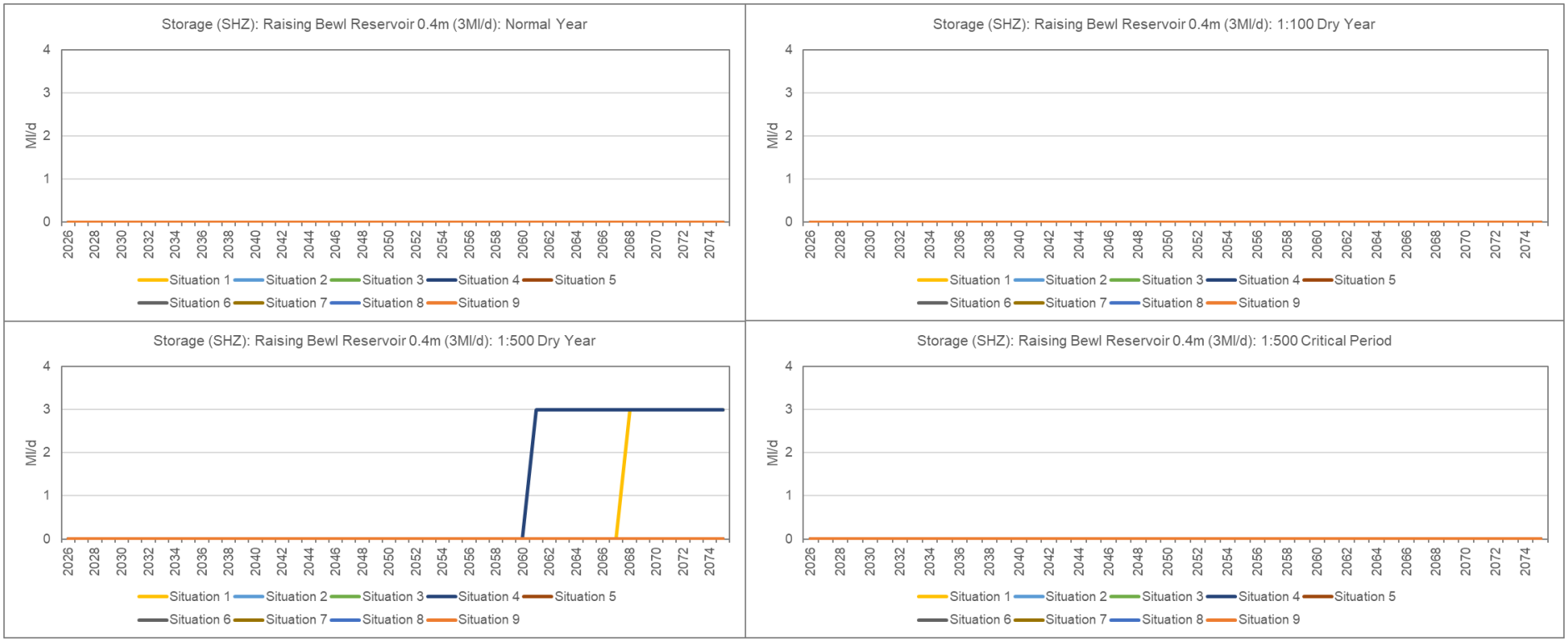

Figure 71: Utilisation of the option to raise Bewl Reservoir in SHZ by 0.4m in each supply-demand situation under each planning scenario.

3 Least Cost Plan

3.1 Western area

3.1.1 Option selection and utilisation under NYAA scenario

Table 25: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (Southern Water Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Otterbourne WSW to PWC Source A (45Ml/d)	2041	2069	0	2041	2064	0	2042	0	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2042	2042	2042	2042	2042	2042	2042	2042	2042
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2051	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Otterbourne WSW (90Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Otterbourne WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HAZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HKZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HKZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HRZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HRZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSE): Candover (22Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSE): Lower Itchen	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	2068	0	0	0	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2036	2036	2036	2036	2036	2036	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	2040	0	0	2040	0	0	2040	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (HSE-HWZ): Otterbourne WSW to Yew Hill WSW bi-directional (74Ml/d)	2040	2040	2053	2041	2040	2057	2041	2047	0
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	0	0	0	0	0	0	2040	0	0
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Budds Farm (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 26: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Otterbourne WSW to PWC Source A (45Ml/d)	45.0	1.6	0.0	45.0	2.3	0.0	45.0	0.0	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Bulk import (HAZ): T2ST to Andover (20Ml/d)	14.3	0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Otterbourne WSW (90Ml/d)	54.3	47.4	28.1	60.0	48.0	27.8	60.0	34.0	27.8
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Otterbourne WSW (21Ml/d)	1.0	1.0	11.7	1.0	1.1	14.4	1.0	12.8	10.4
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	95.0	18.0	16.5	95.0	18.0	16.5	94.9	18.0	14.3
Demand management (HAZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HKZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HRZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HRZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSE): Candover (22Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSE): Lower Itchen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSW): River Test (80Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	1.5	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HWZ): Otterbourne WSW to Yew Hill WSW bi-directional (74Ml/d)	62.2	8.3	9.8	59.9	8.7	10.8	52.2	2.4	0.0
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	7.2	7.5	7.5	7.6	7.6	7.6	8.1	7.6	7.6
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.1	4.4	4.4	4.5	4.5	4.5	5.0	4.5	4.5
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	22.5
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	8.7	11.0	8.7	8.7	11.0	8.7	8.5	10.8	8.5
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.9	4.6	4.6	7.4	4.7	4.7	7.3	4.7	4.7
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	26.6	7.3	7.7	24.2	6.9	6.2	28.8	11.2	2.3
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Budds Farm (60Ml/d)	60.0	60.0	28.1	60.0	60.0	27.8	60.0	40.0	27.8
Recycling (IOW): Sandown (8.5Ml/d)	8.5	8.3	1.6	8.5	7.8	1.6	8.5	1.6	1.6

3.1.2 Option selection and utilisation under 1:100 DYAA scenario

Table 27: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Otterbourne WSW to PWC Source A (45Ml/d)	2040	2044	0	2040	2043	0	2042	2069	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2042	2042	2042	2042	2042	2042	2042	2042	2042
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2051	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Otterbourne WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Otterbourne WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	2037	2037	2037	2037	2037	2037	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	2068	0	0	0	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2036	2036	2036	2036	2036	2036	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Otterbourne WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Budds Farm (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 28: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Otterbourne WSW to PWC Source A (45Ml/d)	45.0	14.2	0.0	45.0	14.9	0.0	45.0	4.2	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Bulk import (HAZ): T2ST to Andover (20Ml/d)	13.7	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Otterbourne WSW (90Ml/d)	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Otterbourne WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	95.0	49.5	18.0	89.7	49.8	18.0	83.8	32.8	18.0
Demand management (HAZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HKZ): NEUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HRZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSE): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (HSW): NEUBs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HWZ): NEUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (IOW): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - supply side (HSE): Candover (22Ml/d)	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
Drought option - supply side (HSE): Lower Itchen	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Drought option - supply side (HSW): River Test (80Ml/d)	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HWZ): Otterbourne WSW to Yew Hill WSW bi-directional (74Ml/d)	24.4	22.3	22.3	21.5	21.5	21.5	26.6	26.6	26.6
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.8	4.8	4.8	7.2	4.8	4.8	7.1	4.9	4.9
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	60.0	39.7	33.9	57.0	40.5	33.6	54.5	37.7	37.6
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Budds Farm (60Ml/d)	60.0	52.3	25.4	60.0	51.3	20.0	53.9	40.0	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.4

3.1.3 Option selection and utilisation under 1:500 DYAA scenario

Table 29: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Otterbourne WSW to PWC Source A (45Ml/d)	2040	2040	0	2040	2040	0	2042	2063	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2042	2042	2042	2042	2042	2042	2042	2042	2042
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2051	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Otterbourne WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Otterbourne WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	2068	0	0	0	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2042	2042	2042	2042	2042	2042	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Otterbourne WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2042	2042	2042	2042	2042	2042	2042	2042	2042
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2035	2035	2035	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Budds Farm (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 30: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Otterbourne WSW to PWC Source A (45Ml/d)	45.0	22.0	0.0	45.0	18.6	0.0	45.0	18.9	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	9.8	1.5	1.5	9.5	1.5	1.5	1.5	1.5	1.5
Bulk import (HAZ): T2ST to Andover (20Ml/d)	8.2	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Otterbourne WSW (90Ml/d)	90.0	90.0	76.0	90.0	90.0	76.3	90.0	90.0	58.8
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Otterbourne WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	73.6	30.8	16.5	64.1	27.0	16.5	57.5	21.0	16.5
Demand management (HAZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HKZ): NEUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HRZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSE): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (HSW): NEUBs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HWZ): NEUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (IOW): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - supply side (HSE): Candover (22Ml/d)	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
Drought option - supply side (HSE): Lower Itchen	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Drought option - supply side (HSW): River Test (80Ml/d)	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HWZ): Otterbourne WSW to Yew Hill WSW bi-directional (74Ml/d)	21.8	21.8	21.8	21.8	21.8	21.8	21.8	26.3	21.8
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	7.7	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.6	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	15.4	12.4	9.4	15.5	12.4	9.4	15.2	12.1	9.1
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.8	4.2	3.4	7.2	4.2	3.4	7.1	4.1	3.3
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	57.5	30.1	33.9	47.2	29.6	33.4	37.4	41.0	37.9
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Budds Farm (60Ml/d)	60.0	60.0	32.6	60.0	60.0	21.5	60.0	49.5	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	8.5	1.6	8.5	8.5	1.6	8.5	8.5	1.6

3.1.4 Option selection and utilisation under 1:500 DYCP scenario

Table 31: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (Southern Water Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Otterbourne WSW to PWC Source A (45Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2042	2042	2042	2042	2042	2042	2042	2042	2042
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2051	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Otterbourne WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Otterbourne WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	2040	0	0	2040	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	2068	0	0	0	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2042	2042	2042	2042	2042	2042	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Otterbourne WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2042	2042	2042	2042	2042	2042	2042	2042	2042
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2040	2042	2042	2040	2042	2042	2040	2042	2042
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Budds Farm (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 32: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYCP planning scenario (Southern Water Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Otterbourne WSW to PWC Source A (45Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	7.8	1.5	1.5	4.6	1.5	1.5	1.5	1.5	1.5
Bulk import (HAZ): T2ST to Andover (20Ml/d)	11.5	0.0	0.0	9.7	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Otterbourne WSW (90Ml/d)	69.0	61.1	58.6	69.0	61.9	59.4	69.0	52.5	46.0
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Otterbourne WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	56.8	16.5	16.5	47.5	15.6	16.5	43.8	16.5	16.5
Demand management (HAZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HKZ): NEUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): NEUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - demand side (HRZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): NEUBs	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
Drought option - demand side (HSW): NEUBs	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Drought option - demand side (HWZ): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (IOW): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Drought option - supply side (HSE): Candover (22Ml/d)	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
Drought option - supply side (HSE): Lower Itchen	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Drought option - supply side (HSW): River Test (80Ml/d)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HWZ): Otterbourne WSW to Yew Hill WSW bi-directional (74Ml/d)	16.9	16.9	16.9	16.9	16.9	16.9	20.0	16.9	16.9
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	7.5	8.1	8.1	8.0	8.1	8.1	8.0	8.1	8.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.4	5.0	5.0	4.9	5.0	5.0	4.9	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	18.0	4.4	4.4	18.0	4.4	4.4	18.0	4.4	4.4
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	10.6	3.2	7.0	9.9	2.1	5.9	9.8	2.8	8.1
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	45.0	27.5	27.5	39.8	27.0	27.0	43.5	30.7	30.6
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Budds Farm (60Ml/d)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	1.6	1.6	8.5	1.6	1.6	8.5	1.6	1.6

3.2 Central area

3.2.1 Option selection and utilisation under 1:100 NYAA scenario

Table 33: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2046	2071	2041	2052	0	2041	2065	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2040	2040	2041	2040	2041	2051	2040	2041	2070
Bulk import (SNZ): SES re-zoning (4Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2053	0	2040	2040	2041	2040	2040	2046
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	2070	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2046	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2057	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SBZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): TUBs	0	0	0	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SWZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SWZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2040	2041	2051	2040	2041	2064	2040	2041	0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2041	0	0	2041	0	0	2041	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2040	0	2040	2040	0	2040	2040	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2041	0	0	2041	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	2063	0	0	2050	0	0	2058	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2042	0	0	2046	0	0	2049	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2042	0	0	2041	0	0	2048	0	0

Table 34: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	35.0	16.3	3.2	26.6	15.4	0.0	37.9	6.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	2.2
Bulk import (SNZ): SES re-zoning (4Ml/d)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	0.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	16.7	0.0	0.0	10.9	0.0	0.0	4.6	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	39.4	26.7	0.0	29.7	25.9	0.0	34.1	18.3	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	13.0	11.4	13.0	13.0	12.5	13.0	13.0	12.5
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	17.0	12.5	17.0	17.0	11.3	17.0	17.0	11.2
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	12.8	15.0	15.0	12.1	15.0	15.0	11.2
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	7.2	15.0	15.0	3.0
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	19.5	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

3.2.2 Option selection and utilisation under 1:100 DYAA scenario

Table 35: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2040	2069	2041	2042	0	2041	2046	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2034	2034	2034	2034	2034	2034	2034	2034	2034
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2053	0	2040	2040	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	2070	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2046	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2057	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2051	0	0	0	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2041	0	2040	2041	0	2040	2041	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2062	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	2063	0	0	2050	0	0	2058	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2042	0	0	2046	0	0	2049	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2042	0	0	2041	0	0	2048	0	0

Table 36: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Southern Water Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	40.0	32.3	5.4	29.2	31.3	0.0	33.9	20.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	9.3	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Drought option - demand side (SNZ): NEUBs	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Drought option - demand side (SWZ): NEUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	30.2	16.2	0.0	25.0	15.2	0.0	21.4	7.5	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	12.9	5.7	13.0	12.8	6.4	13.0	9.2	6.4
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	16.0	6.4	17.0	15.9	5.0	17.0	10.4	5.7
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	10.0	15.0	15.0	9.8	15.0	15.0	9.8
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	13.7	15.0	15.0	10.7
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	19.5	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

3.2.3 Option selection and utilisation under 1:500 DYAA scenario

Table 37: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2041	2042	2041	2042	2069	2041	2042	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2034	2034	2034	2034	2034	2034	2034	2034	2034
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2053	0	2040	2040	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	2070	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2046	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2057	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2041	0	0	2074	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2040	0	2040	2040	0	2040	2041	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2051	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	2063	0	0	2050	0	0	2058	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2042	0	0	2046	0	0	2049	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2042	0	0	2041	0	0	2048	0	0

Table 38: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	40.0	40.0	12.6	40.0	40.0	1.5	40.0	20.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	10.0	0.0	0.0	4.8	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Drought option - demand side (SNZ): NEUBs	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Drought option - demand side (SWZ): NEUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	6.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	33.2	18.5	0.0	24.0	17.5	0.0	23.9	9.7	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	13.0	6.7	13.0	13.0	6.0	13.0	12.5	7.3
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	17.0	7.3	17.0	17.0	7.3	17.0	11.3	6.8
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	11.3	15.0	15.0	11.0	15.0	15.0	11.0
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	12.3
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	19.5	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

3.2.4 Option selection and utilisation under 1:500 DYCP scenario

Table 39: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2043	0	0	0	0	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	2070	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2046	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2057	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2036	2036	2036	2036	2036	2036	2036	2036	2036
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2040	2040	2040	2040	2040	0	0	0	0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2051	2042	2042	2074	2042	2070	0	0	0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2042	0	0	2042	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	0	0	0	0	0	0	0	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2066	0	0	0	0	0	0	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0	0	0	0	0	0	0	0	0

Table 40: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYCP planning scenario (Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	1.2	3.1	0.7
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	0.5	0.0	0.0	0.0	0.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	4.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Drought option - demand side (SNZ): NEUBs	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Drought option - demand side (SWZ): NEUBs	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	8.9	2.4	2.3	1.2	1.5	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	0.2	4.0	2.4	0.0	0.0	0.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	8.8	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	9.6	9.8	15.0	10.5	10.8	12.3	11.7	12.0
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	3.0	7.5	7.3	3.0	6.4	3.0	3.0	3.0	3.0
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3.3 Eastern area

3.3.1 Option selection and utilisation under NYAA scenario

Table 41: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (Southern Water Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	2075	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2058	0	0	2058	0	0	2057	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SHZ): Rye to SEW RZ8	2051	0	0	2052	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	2050	2050	2051	2052	2050	2051	2050	2050	2065
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (SHZ): SEW RZ8 to Rye	0	0	0	2050	2060	2075	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2041	2041	0	2046	2041	0	2046	2046	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2040	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2046	0	0	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2057	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KME): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KME): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	2040	2040	0	2040	2040	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2051	0	0	2051	0	0	2059	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	2036	2036	2036	0	0	0	0	0	0

Table 42: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	8.0	0.0	0.0	5.4	0.0	0.0	5.8	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	15.9	20.0	20.0	16.7	20.0	20.0	20.0	19.7	8.5
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk export (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	7.0	2.3	5.2	0.0	0.0	0.0
Demand management (KME): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	10.0	5.1	0.0	8.2	7.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	18.0	16.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	7.7	0.0	0.0	9.5	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	20.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	12.2	15.8	4.3	3.5	15.8	3.9	13.7	14.0	3.5
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	44.7	44.7	26.2	42.9	41.8	23.2	44.7	40.1	22.1
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	6.6	6.6	6.6	7.2	6.6	6.6	8.8	6.6	6.6
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	13.2	14.0	14.0	12.7	14.0	14.0	10.7
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.9	3.3	0.0	2.5	2.8	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.3	0.0	0.0	15.3	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	3.6	3.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3.3.2 Option selection and utilisation under 1:100 DYAA scenario

Table 43: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (Southern Water Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	2075	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2045	0	0	2045	0	0	2050	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2050	0	0	2059	0	0	0	0	0
Bulk export (SHZ): Rye to SEW RZ8	2051	0	0	2051	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	2050	2051	2052	2050	2051	2050	2050	0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (SHZ): SEW RZ8 to Rye	0	0	0	0	0	2075	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2041	2041	0	2046	2041	0	2046	2046	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2040	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2046	0	0	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2057	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0	0	0	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2036	2036	2036	2040	2040	2041	2040	2041	2042
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2051	0	0	2051	0	0	2059	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	2041	2041	2046	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 44: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	7.8	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	10.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	20.0	15.7	4.1	20.0	20.0	11.7	13.6	0.0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk export (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Demand management (KME): Basket - low	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	10.0	2.0	0.0	8.3	2.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	18.3	0.0	20.0	13.0	0.0	20.0	13.6	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	6.6	0.0	0.0	2.3	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	20.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (KMW): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (KTZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	4.4	9.3	6.6	1.4	8.8	11.4	6.2	4.5	1.4
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	43.4	44.7	25.3	40.5	42.0	20.2	44.7	37.4	23.7
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	6.6	14.0	14.0	6.5	14.0	14.0	3.8
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	1.5

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	12.9
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.1	0.0	0.0	13.6	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	3.6	3.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3.3.3 Option selection and utilisation under 1:500 DYAA scenario

Table 45: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	2075	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2045	0	0	2045	0	0	2050	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2050	0	0	2052	0	0	2052	0	0
Bulk export (SHZ): Rye to SEW RZ8	2051	0	0	2050	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	2050	2051	0	2051	2051	2066	2050	2065
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk export (SHZ): SEW RZ8 to Rye	0	0	0	0	0	2075	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2041	2041	0	2046	2041	0	2046	2046	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2040	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2046	0	0	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2057	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0	2040	0	2040	2040	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2051	0	0	2051	0	0	2059	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	2040	2040	2042	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	2055	2059	0	2055	0	0	0	0	0

Table 46: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	7.4	6.8	6.8	7.4	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	2.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	17.7	0.0	0.0	6.1	0.0	0.0	1.8	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	10.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	11.0	18.5	0.0	18.2	20.0	7.7	8.9	4.5
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk export (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0
Demand management (KME): Basket - low	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	10.0	10.0	0.0	10.0	8.8	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	10.0	0.0	0.0	9.4	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	20.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (KMW): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (KTZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	10.5	11.5	7.7	0.0	12.1	9.9	11.2	8.1	1.0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	44.7	44.7	28.6	42.9	40.0	24.3	44.7	37.3	22.6
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	7.3	7.3	7.3	15.7	7.3	7.3	7.3	7.3	7.3
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	10.1	14.0	14.0	9.6	14.0	14.0	5.8
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.0	2.9	0.0	1.3	2.4	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	3.8

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.3	0.0	0.0	15.3	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	3.0	3.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0

3.3.4 Option selection and utilisation under 1:500 DYCP scenario

Table 47: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	0	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2067	0	0	2070	0	0	0	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2071	2050	2051	0	2050	2051	0	2050	2065
Bulk export (SHZ): Rye to SEW RZ8	0	0	0	0	2060	0	0	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (SHZ): SEW RZ8 to Rye	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2041	2041	0	2046	2041	0	2046	2046	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2040	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2046	0	0	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2057	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	0	0	2051	0	0	2053	0	0	0
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	0	0	2054	0	0	2056	0	0	0
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2058	2050	2048	2072	2050	0	0	2059	0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0	0	0	0	0	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	0	0	2074	0	0	2075	0	0	0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	0	0	0	0	0	0	0	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	0	0	0	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 48: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYCP planning scenario (Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	1.4	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	4.0	20.0	13.9	0.0	20.0	14.3	0.0	20.0	16.0
Bulk export (SHZ): Rye to SEW RZ8	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Bulk export (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2.0	2.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	4.0	4.0	0.0	4.0	4.0	0.0	4.0	4.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d)	4.0	4.0	0.0	4.0	4.0	0.0	4.0	4.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	4.0	4.0	0.0	4.0	4.0	0.0	4.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (KMW): NEUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (KTZ): NEUBs	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Drought option - demand side (SHZ): NEUBs	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	0.0	0.0	2.7	0.0	0.0	2.7	0.0	0.0	0.0
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0	0.0
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	7.3	8.8	0.3	1.5	6.7	0.0	0.0	1.3	0.0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	8.8	20.9	17.4	5.7	12.2	14.7	5.7	5.7	8.5
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	12.3	7.0	7.3	9.9	16.8	7.3	7.9	6.3	6.3
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	1.5	14.0	14.0	1.5	14.0	13.7	1.5	14.0	8.6
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KMW): Medway to lake (14Ml/d)	0.0	0.0	1.5	0.0	0.0	1.0	0.0	0.0	0.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

4 Costs and Best Value Metrics Scores

This section provides the costs of the plans and their best value metrics scores. The costs are based on Social Time Preference Rate (STPR) discounting. Cost breakdown by option category is based on output from the WRSE investment model. Some of these cost have been revised as part of Price Review 2024 (PR24) submission. Best Value metrics scores are aggregated at the WRSE regional level.

4.1 Best Value Plan

Table 49: Cost breakdown for Best Value Plan using the Social Time Preference Rate (STPR) discounting method.

Cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Capex	2,973	2,272	1,926	2,726	2,230	1,834	2,312	2,093	1,699	2,229	(£m)
Fixed opex	2,982	2,895	2,848	2,947	2,882	2,829	2,883	2,855	2,800	2,880	(£m)
Fixed operational carbon	472	472	472	472	472	472	472	472	472	472	(£m)
Embedded carbon	198	147	128	181	143	121	157	136	115	147	(£m)
Variable opex	674	401	230	615	393	221	511	318	193	395	(£m)
Variable carbon opex	48	25	12	43	24	11	33	18	9	25	(£m)

Table 50: Cost breakdown by option category for Best Value Plan using the Social Time Preference Rate (STPR) discounting method.

Option category cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Catchment management	0	0	0	0	0	0	0	0	0	0	(£m)
Demand drought intervention	0	0	0	0	0	0	0	0	0	0	(£m)
Demand management	251	251	251	251	251	251	251	251	251	251	(£m)
Desalination	1,423	678	176	1,164	709	139	610	529	4	604	(£m)
Direct river abstraction	0	0	0	0	0	0	0	0	0	0	(£m)
Existing WAFU	0	0	0	0	0	0	0	0	0	0	(£m)

Option category cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Groundwater	37	36	35	37	36	35	29	18	16	31	(£m)
Infrastructure	384	342	339	383	342	339	376	340	339	354	(£m)
Leakage reduction	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	(£m)
Other	20	20	19	20	20	18	20	20	17	19	(£m)
Reservoir	108	1	1	111	1	1	90	0	0	35	(£m)
Reuse	1,123	1,033	1,005	1,028	930	902	1,017	916	889	982	(£m)
Supply drought intervention	102	102	102	102	102	102	90	90	90	98	(£m)
Tankering	87	87	87	87	87	87	87	87	87	87	(£m)
Trading	0	0	0	0	0	0	0	0	0	0	(£m)
Transfer	1,084	942	880	1,073	945	893	1,073	920	875	965	(£m)
Transfers into region	59	53	54	58	53	53	58	54	54	55	(£m)

Table 51: Emissions breakdown for Best Value Plan.

Emissions breakdown	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Capital emissions	1,260,248	912,917	785,853	1,145,065	880,349	734,503	983,936	836,831	699,801	915,500	(tonnes)
Operational emissions	2,981,458	2,848,933	2,781,756	2,954,548	2,846,872	2,777,623	2,903,021	2,817,031	2,771,004	2,853,583	(tonnes)

Table 52: Electricity emissions breakdown for Best Value Plan.

Electricity breakdown	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Generated (on site)	0	0	0	0	0	0	0	0	0	0	(GWh)
Grid	19,773	10,342	3,793	17,220	10,190	3,397	12,440	7,425	2,594	9,686	(GWh)
Renewable	0	0	0	0	0	0	0	0	0	0	(GWh)

Table 53: Environmental metrics score for Best Value Plan aggregated at the regional level.

Environmental	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
SEA environmental benefit	66,832.0	64,952.0	64,818.0	67,726.0	65,144.0	64,656.0	66,606.0	64,687.0	64,549.0	65,552.2
SEA environmental disbenefit	105,830.0	78,713.0	74,204.0	98,089.0	78,859.0	72,412.0	84,287.0	70,582.0	63,791.0	80,751.9
Natural capital	81,496,824.9	80,456,324.6	80,643,091.8	80,433,762.7	80,592,876.7	80,942,940.8	81,030,469.5	80,863,754.0	81,136,187.4	80,844,025.8
Bio-diversity net gain	-197,550.0	-138,031.0	-119,668.0	-195,817.0	-143,734.0	-116,591.0	-144,506.0	-120,807.0	-88,697.0	-140,600.1
Direct river abstraction	66,832.0	64,952.0	64,818.0	67,726.0	65,144.0	64,656.0	66,606.0	64,687.0	64,549.0	65,552.2

Table 54: Societal metrics score for Best Value Plan aggregated at the regional level.

Social	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
Customer preference	35,751.0	34,054.0	33,827.0	35,560.0	34,080.0	33,620.0	34,285.0	33,464.0	33,000.0	34,182.3

Table 55: Resilience metrics score for Best Value Plan aggregated at the regional level.

Reliability	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
Reliability	30.1	30.6	33.4	29.7	30.7	33.6	32.0	35.7	40.0	32.9
R1: Uncertainty of option supply/demand benefit	6.3	6.0	6.5	6.1	6.0	6.5	6.3	7.0	7.8	6.5
R3: Risk of service failure due to other physical hazards	7.1	7.6	8.5	7.2	7.6	8.5	7.9	9.0	10.4	8.2
R4: Availability of additional headroom	6.6	7.0	7.2	6.7	7.0	7.2	7.3	7.7	7.9	7.2
R5: Catchment/raw water quality risks (incl. climate change)	4.1	4.2	4.7	3.8	4.2	4.8	4.3	5.0	5.8	4.6

Reliability	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
R6: Capacity of catchment services	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1
R7: Risk of service failure to other exceptional events	5.5	5.9	6.6	5.6	5.9	6.6	6.1	7.0	8.1	6.4
R8: Soil health	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Reliability	**Supply-demand situation**									**Average**
Metric	1	2	3	4	5	6	7	8	9	
Adaptability	14.6	16.1	18.0	14.7	16.1	17.7	16.6	18.9	21.4	17.1
A3: Operational complexity and flexibility	6.8	7.5	8.4	6.9	7.5	8.4	7.7	8.9	10.3	8.1
A4: WRZ connectivity	7.7	8.6	9.6	7.6	8.6	9.3	8.8	9.9	11.1	9.0
A7: Customer relations support engagement with demand management	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
R5: Catchment/raw water quality risks (incl. climate change)	14.6	16.1	18.0	14.7	16.1	17.7	16.6	18.9	21.4	17.1
Reliability	**Supply-demand situation**									**Average**
Metric	1	2	3	4	5	6	7	8	9	
Evolvability	19.9	20.6	22.6	19.9	20.7	22.7	21.2	24.3	27.6	22.2
E1: Scaleability and modularity of proposed changes	8.9	9.6	10.7	8.9	9.7	10.8	9.9	11.5	13.1	10.4
E2: Intervention lead times	4.1	4.1	4.4	4.0	4.1	4.3	4.2	4.7	5.2	4.3
E3: Reliance on external bodies to deliver changes	6.5	6.9	7.6	6.5	6.9	7.7	7.1	8.1	9.3	7.4
E5: Collaborative land management	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.1
Evolvability	19.9	20.6	22.6	19.9	20.7	22.7	21.2	24.3	27.6	22.2

Reliability	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
E1: Scaleability and modularity of proposed changes	8.9	9.6	10.7	8.9	9.7	10.8	9.9	11.5	13.1	10.4

4.2 Least Cost Plan

Table 56: Cost breakdown for Least Cost Plan using the Social Time Preference Rate (STPR) discounting method.

Cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Capex	2,950	2,271	1,886	2,726	2,230	1,834	2,328	2,094	1,699	2,224	(£m)
Fixed opex	2,978	2,892	2,842	2,950	2,882	2,829	2,884	2,855	2,800	2,879	(£m)
Fixed operational carbon	472	472	472	472	472	472	472	472	472	472	(£m)
Embedded carbon	199	148	126	179	143	121	157	136	115	147	(£m)
Variable opex	669	405	229	617	395	221	512	320	194	396	(£m)
Variable carbon opex	47	25	11	44	24	11	33	18	9	25	(£m)

Table 57: Cost breakdown by option category for Least Cost Plan using the Social Time Preference Rate (STPR) discounting method.

Option category cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Catchment management	0	0	0	0	0	0	0	0	0	0	(£m)
Demand drought intervention	0	0	0	0	0	0	0	0	0	0	(£m)
Demand management	251	251	251	251	251	251	251	251	251	251	(£m)
Desalination	1,334	674	133	1,132	710	139	632	530	4	587	(£m)
Direct river abstraction	0	0	0	0	0	0	0	0	0	0	(£m)
Existing WAFU	0	0	0	0	0	0	0	0	0	0	(£m)

Option category cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Groundwater	37	36	35	38	36	35	29	18	16	31	(£m)
Infrastructure	387	343	339	384	343	339	376	340	339	354	(£m)
Leakage reduction	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	(£m)
Other	20	20	19	20	20	18	20	20	17	19	(£m)
Reservoir	136	13	4	115	1	1	90	1	1	40	(£m)
Reuse	1,126	1,016	987	1,071	930	902	1,017	917	889	984	(£m)
Supply drought intervention	102	102	102	102	102	102	90	90	90	98	(£m)
Tankering	87	87	87	87	87	87	87	87	87	87	(£m)
Trading	0	0	0	0	0	0	0	0	0	0	(£m)
Transfer	1,109	951	888	1,060	946	894	1,071	920	875	968	(£m)
Transfers into region	59	53	54	58	53	53	58	54	54	55	(£m)

Table 58: Emissions breakdown for Least Cost Plan.

Emissions breakdown	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Capital emissions	1,266,006	915,004	766,268	1,129,629	880,349	734,503	989,197	836,831	699,801	913,065	(tonnes)
Operational emissions	2,979,062	2,852,177	2,780,679	2,958,019	2,848,168	2,777,707	2,904,043	2,818,362	2,770,975	2,854,355	(tonnes)

Table 59: Electricity emissions breakdown for Least Cost Plan.

Electricity breakdown	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Generated (on site)	0	0	0	0	0	0	0	0	0	0	(GWh)
Grid	19,625	10,611	3,694	17,386	10,263	3,409	12,558	7,500	2,595	9,738	(GWh)
Renewable	0	0	0	0	0	0	0	0	0	0	(GWh)

Table 60: Environmental metrics score for Least Cost Plan aggregated at the regional level.

Environmental	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
SEA environmental benefit	69,344.0	63,942.0	63,129.0	67,320.0	63,618.0	62,740.0	63,957.0	61,621.0	60,603.0	64,030.4
SEA environmental disbenefit	113,93500	82,789.0	76,750.0	101,155.0	80,433.0	74,098.0	84,687.0	71,099.0	63,870.0	83,201.8
Natural capital	80,962,381.0	76,512,884.9	79,357,304.8	74,638,485.5	76,454,271. 9	79,162,627.0	80,289,634.0	81,159,954.3	83,925,469.7	79,162,557.0
Bio-diversity net gain	-212,985.0	-147,659.0	-121,063.0	-199,940.0	-147,436.0	-123,069.0	-118,240.0	-90,091.0	-57,521.0	-135,333.78
Direct river abstraction	0	0	0	0	0	0	0	0	0	0

Table 61: Societal metrics score for Least Cost Plan aggregated at the regional level.

Social	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
Customer preference	34058.0	31939.0	31611.0	33237.0	31784.0	31374.0	31862.0	30940.0	30525.00	31,925.6

Table 62: Resilience metrics score for Least Cost Plan aggregated at the regional level.

Reliability	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
Reliability	29.5	30.1	33.0	28.9	30.3	33.1	29.3	32.5	36.2	31.4
R1: Uncertainty of option supply/demand benefit	6.3	5.7	6.3	5.9	5.8	6.3	5.7	6.2	6.9	6.1
R3: Risk of service failure due to other physical hazards	7.1	7.5	8.4	7.1	7.5	8.4	7.2	8.2	9.4	7.9
R4: Availability of additional headroom	6.6	6.9	7.1	6.7	7.0	7.2	7.1	7.5	7.7	7.1
R5: Catchment/raw water quality risks (incl. climate change)	4.1	4.2	4.8	3.9	4.3	4.8	3.9	4.5	5.3	4.4

Reliability	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
R6: Capacity of catchment services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R7: Risk of service failure to other exceptional events	5.4	5.7	6.4	5.5	5.8	6.5	5.4	6.1	7.0	6.0
R8: Soil health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Reliability	**Supply-demand situation**									**Average**
Metric	1	2	3	4	5	6	7	8	9	
Adaptability	14.4	16.0	18.0	14.5	16.1	17.9	15.8	18.0	20.5	16.8
A3: Operational complexity and flexibility	6.8	7.4	8.3	6.9	7.4	8.3	7.0	8.1	9.3	7.7
A4: WRZ connectivity	7.6	8.6	9.7	7.6	8.6	9.5	8.8	9.9	11.1	9.0
A7: Customer relations support engagement with demand management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R5: Catchment/raw water quality risks (incl. climate change)	4.1	4.2	4.8	3.9	4.3	4.8	3.9	4.5	5.3	4.4
Reliability	**Supply-demand situation**									**Average**
Metric	1	2	3	4	5	6	7	8	9	
Evolvability	19.5	20.3	22.6	19.1	20.4	22.5	20.7	23.5	26.7	21.7
E1: Scaleability and modularity of proposed changes	9.0	9.5	10.7	8.9	9.6	10.7	9.9	11.4	13.0	10.3
E2: Intervention lead times	4.1	4.0	4.4	3.8	4.0	4.2	3.9	4.3	4.8	4.2
E3: Reliance on external bodies to deliver changes	6.5	6.7	7.5	6.4	6.8	7.6	6.9	7.8	9.0	7.2
E5: Collaborative land management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Evolvability	19.5	20.3	22.6	19.1	20.4	22.5	20.7	23.5	26.7	21.7

Reliability	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
E1: Scaleability and modularity of proposed changes	9.0	9.5	10.7	8.9	9.6	10.7	9.9	11.4	13.0	10.3