

# **ROYAL BERKSHIRE FIRE & RESCUE SERVICE**

## ***Final Report: East Berkshire Modelling***



### ***Introduction***

1. ORH Limited has been asked by the Royal Berkshire Fire & Rescue Service (RBFRS) to undertake modelling with regards to the deployment of pumping appliances at stations in East Berkshire.
2. ORH has provided RBFRS with modelling support on a number of projects since 2005 – the model was most recently validated in November 2012 using data up to and including financial year 2011/12. The scope of the modelling in this report has been to support RBFRS in the development of options for the IRMP, and in particular:
  - a) To update the modelled base position to reflect unavailability levels from the most recent financial year (2012/13) and take account of changes to deployments that have occurred or are assumed will occur in the near future;
  - b) To examine the impact associated with 'satellite' pumps (pumps that have to travel to and from an alternative station for the change of watch);
  - c) To assess the impacts associated with a new deployment of pumping appliances in East Berkshire.
3. These three items are discussed in turn below, with the modelling results presented in the Appendices. A Draft Report Meeting took place between RBFRS and ORH and the outcomes of this are reflected in this Final Report.

### ***Updating the Modelled Base Position***

4. As stated above, the model was most recently validated in November 2012 using data up to and including financial year 2011/12.
5. After discussion with RBFRS, it was determined that the operational régime of the service has not altered significantly, so the existing model has been assumed to be fit for purpose to carry out the modelling specified. However, a number of alterations to the modelled base position have been made to reflect the expected position of the service in the near future, specifically:
  - a) 2012/13 RDS unavailability levels have been analysed and applied by individual appliance and period of day;

**FIGURE 1**                      **DEPLOYMENT SUMMARY**

Station Number	Station Name	Current Crewing	Modelled Base	Proposed Option
1	Caversham Road	1 WDS	1 WDS	1 WDS
2	Wokingham Road	1 WDS	1 WDS	1 WDS
3	Dee Road	1 WDS	1 WDS	1 WDS
4	Newbury	1 WDS, 1 RDS	2 WDS	2 WDS
5	Hungerford	1 RDS	1 RDS	1 RDS
6	Lambourn	1 RDS	1 RDS	1 RDS
7	Pangbourne	1 RDS	1 RDS	1 RDS
9	Wargrave	1 RDS	1 RDS	1 RDS
10	Wokingham	1 WDS	1 WDS	1 WDS
11	Mortimer	1 RDS	1 RDS	1 RDS
13	Windsor - Current Station	1 WDS	-	-
13 (new)	Windsor - Tinkers Lane	-	1 WDS*	1 WDS*
14	Ascot	1 RDS	1 RDS	1 WDS*
15	Crowthorne	1 RDS	1 RDS	1 RDS
16	Bracknell	1 WDS, 1 RDS	1 WDS, 1 RDS	1 WDS
17	Slough	2 WDS	2 WDS	1 WDS
18	Langley	1 WDS	1 WDS	1 WDS
19	Maidenhead	1 WDS, 1 RDS	1 WDS, 1 RDS	1 WDS, 1 RDS
20	Whitley Wood	1 WDS	1 WDS	1 WDS

Total WDS Pumping Appliances	12	13	13
Total RDS Pumping Appliances	10	9	7

Total Pumping Appliances	22	22	20
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\*Satellite Wholetime Appliances

Deployment Changes

- b) Newbury station has been modelled as having two wholetime appliances (no RDS);
  - c) Windsor station has been provided with one wholetime appliance (satellite from Slough) at Tinkers Lane, with the existing station closed.
6. The availability of RDS appliances by hour is shown in Appendix **A1** and these data have been fed in to the modelled base for 2013. The range coverage maps for 1<sup>st</sup> and 2<sup>nd</sup> response are given in Appendix **A2**; the associated response performance and workload can be seen in the comparisons with the proposed option presented in Appendix **B**.

### ***Satellite Locations***

7. The satellite appliance located at Tinkers Lane, Windsor is assumed to spend two hours per day travelling to and from Slough; half an hour travelling either side of each change of shift (0900 and 1800). Modelling has been undertaken to assess if this has a significant impact to response performance.
8. The expected travel time from Slough station to Tinkers Lane is 10-12 minutes. In modelling the impact on response performance, the time associated with the use of a satellite location has been split into four sections:
- a) Appliance at Slough station – adverse impact on performance to the Windsor area as no appliance in Windsor;
  - b) Start of journey – activation time would be quicker as vehicle is already mobile, however longer travel time to Windsor area;
  - c) Middle to End of journey – improvement in response times as vehicle is mobile and also well located in terms of the incident distribution in the Windsor area;
  - d) Appliance at Tinkers Lane station – performance as base.
9. The four sections therefore have one positive, one negative and two neutral outcomes in terms of the response performance. In modelling the outputs of the sections, both individually and combined, it is clear that the impact on response times is negligible. For modelling purposes, further runs have therefore assumed that the appliance is simply based at Tinkers Lane.

### ***Proposed Option***

10. RBFRS have specified an alternative deployment of pumping appliances to compare to the base position. The current deployment, modelled base and proposed option are provided in Figure **1** opposite. The stations impacted by the proposed changes are compared to the modelled base:
- a) Remove 1 wholetime pump from Slough (results in 1 WDS);
  - b) Remove the RDS pump from Bracknell (results in 1 WDS);

**FIGURE 2****WORKLOAD SUMMARY**

Modelling Option	Ascot		Slough	
	1st	2nd	1st	2nd
2013 Modelled Base	47	6	1,254	389
Proposed Option	283	52	1,086	186
Difference	236	46	-168	-203

**Notes:**

The numbers represent the modelled average annual number of incidents to which Slough and Ascot stations provide 1st and 2nd responses

- c) The RDS pump at Ascot will be replaced with 1 wholetime satellite pump from Bracknell;
11. The modelling results are presented in Appendix **B** and are given in the same format as previous modelling studies for RBFRS; results are shown for the following:
- Specific response standards (1<sup>st</sup> in 8/10 minutes and 2<sup>nd</sup> in 10/12/15 minutes to Dwelling Fires; 1st in 11 minutes to RTCs);
  - The response distribution for Dwelling Fires (1<sup>st</sup> and 2<sup>nd</sup> response) and RTCs (1<sup>st</sup> response only);
  - Average response times by station ground (1<sup>st</sup> and 2<sup>nd</sup> response to all incidents);
  - Annual workload by station (all responses);
  - Range coverage maps for 1<sup>st</sup> and 2<sup>nd</sup> response.
12. At the Service-wide level, the proposed option would provide small improvements to the performance associated with the 1<sup>st</sup> response to both Dwelling Fires and RTCs, however the performance of the 2<sup>nd</sup> response to Dwelling Fires would deteriorate (see **B1** to **B3**).
13. In comparison to the current crewing, which models one WDS and one RDS at Newbury, the modelled base position gives a significantly higher level of performance in terms of 2<sup>nd</sup> response to Dwelling Fires.
14. Significant improvements are observed for both 1<sup>st</sup> and 2<sup>nd</sup> response within the Ascot area and there are small improvements in Bracknell. The average response time for the 2<sup>nd</sup> response in Slough would increase by 2m31s with the removal of a wholetime pump (see **B4**).
15. The proposed options would also result in increased workload for Langley, Maidenhead and Windsor (Tinkers Lane) stations in providing the second response to the Slough area (see **B5**). A comparison of the workload for Slough and Ascot stations is provided in Figure **2** opposite.
16. The range coverage maps presented in Appendix **B6** also reflect the relative improvement in 1<sup>st</sup> and deterioration in 2<sup>nd</sup> appliance response (when compared to the base position shown in **A2**).

### **Summary**

17. This paper has presented an updated base modelling position (taking account of RDS unavailability in 2012/13) and the modelling results associated with a deployment option for East Berkshire as put forward by RBFRS.
18. The modelling has shown that providing a wholetime appliance at Ascot would improve Service-wide performance for 1<sup>st</sup> response, however there is a deterioration in performance for the 2<sup>nd</sup> response associated with the removal of the second pump from Slough station.



## **APPENDICES**

<b>A</b>	2013 MODELLED BASE POSITION
<b>B</b>	PROPOSED OPTION





**A 2013 MODELLED BASE POSITION**

**A1 Appliance Availability**

**A1a** All Days

**A1b** Weekdays

**A1c** Weekends

**A2 Base Position – Range Coverage Maps**

**A2a** Range Cover Modelling of 1<sup>st</sup> Appliance

**A2b** Range Cover Modelling of 2<sup>nd</sup> Appliance



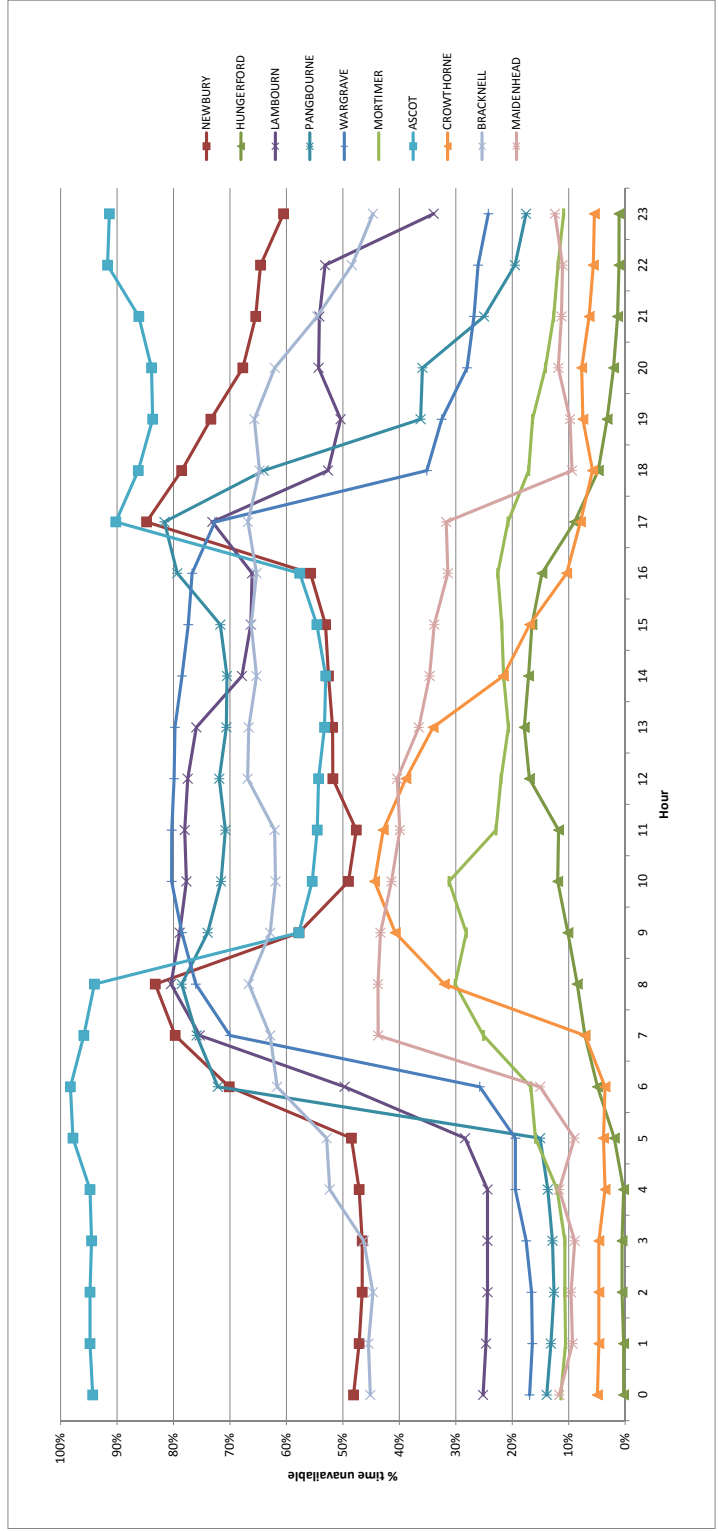
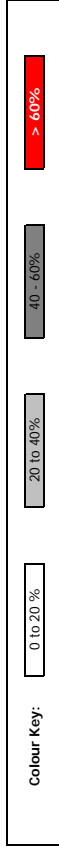
Off the Run Analysis (Retained Crews Only)  
**Station by Hour Summary**  
2012/13

**Proportion of Hours Unavailable**

Station	Callsign	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
NEWBURY	04	48%	47%	47%	47%	47%	48%	70%	80%	83%	58%	49%	48%	52%	52%	53%	53%	56%	85%	79%	73%	68%	65%	65%	61%	60%
HUNGERFORD	05	0%	0%	1%	1%	0%	2%	5%	7%	8%	10%	12%	12%	17%	18%	17%	17%	15%	9%	5%	3%	2%	1%	1%	1%	7%
LAMBOURN	06	25%	25%	24%	24%	24%	28%	50%	75%	80%	79%	78%	78%	77%	76%	68%	66%	66%	73%	53%	50%	54%	54%	53%	34%	55%
PANGBOURNE	07	14%	13%	13%	13%	14%	15%	72%	76%	79%	74%	72%	71%	72%	71%	71%	72%	79%	82%	64%	36%	36%	25%	20%	18%	49%
WARGRAVE	09	17%	16%	17%	18%	19%	19%	26%	70%	76%	79%	80%	80%	80%	80%	78%	77%	77%	73%	35%	32%	28%	27%	26%	24%	48%
MORTIMER	11	11%	11%	11%	11%	12%	16%	17%	25%	30%	28%	31%	23%	22%	21%	22%	22%	23%	21%	17%	16%	14%	13%	12%	11%	18%
ASCOT	14	94%	95%	95%	95%	98%	98%	98%	96%	94%	58%	55%	54%	53%	53%	53%	55%	58%	90%	86%	84%	84%	86%	92%	91%	80%
CROWTHORNE	15	5%	5%	5%	5%	4%	4%	4%	7%	32%	41%	44%	43%	39%	34%	22%	17%	10%	8%	6%	7%	8%	6%	6%	5%	15%
BRACKNELL	16	45%	45%	46%	46%	52%	53%	62%	63%	67%	63%	62%	62%	67%	67%	65%	66%	65%	67%	65%	66%	62%	55%	48%	45%	58%
MADENHEAD	19	12%	9%	10%	9%	12%	9%	15%	44%	44%	43%	41%	40%	40%	37%	35%	34%	31%	32%	9%	10%	12%	11%	11%	12%	23%
All Retained Stations		23%	22%	22%	22%	23%	24%	35%	45%	49%	44%	44%	43%	43%	42%	40%	40%	40%	45%	35%	32%	31%	29%	28%	25%	34%

**Notes**

1. 365 day sample



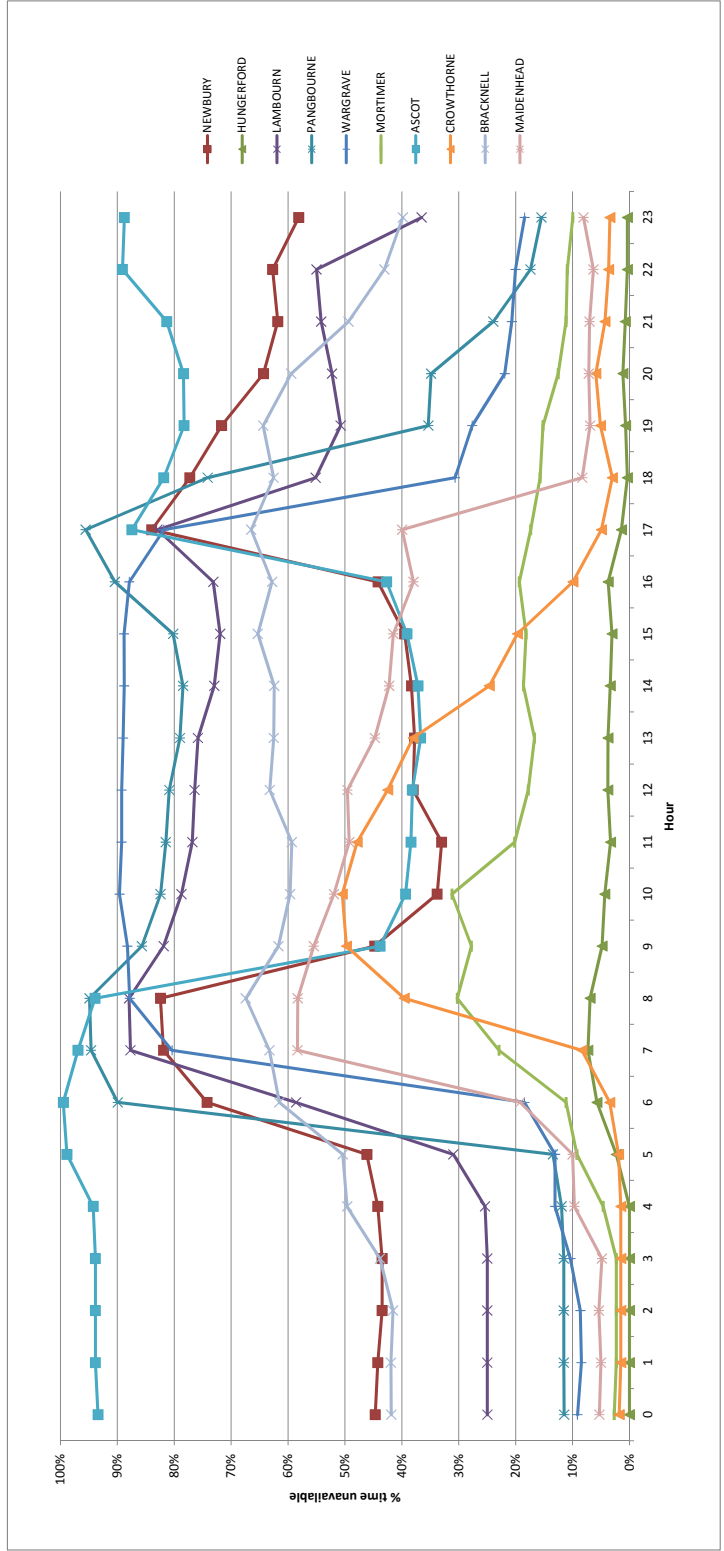
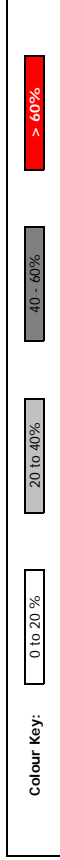
Off the Run Analysis (Retained Crews Only)  
**Station by Hour Summary - Weekdays**  
**2012/13**

**Proportion of Hours Unavailable**

Station	Callsign	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
NEWBURY	04	45%	44%	43%	43%	44%	46%	<b>74%</b>	<b>82%</b>	<b>82%</b>	45%	34%	33%	38%	38%	40%	44%	<b>84%</b>	<b>77%</b>	<b>72%</b>	<b>64%</b>	<b>62%</b>	<b>63%</b>	0%	58%	54%
HUNGERFORD	05	0%	0%	0%	0%	0%	2%	6%	7%	7%	5%	4%	3%	4%	4%	3%	3%	4%	1%	0%	1%	1%	0%	0%	0%	2%
LAMBOURN	06	25%	25%	25%	25%	25%	31%	59%	<b>88%</b>	<b>88%</b>	<b>82%</b>	<b>79%</b>	<b>77%</b>	<b>76%</b>	<b>76%</b>	<b>73%</b>	<b>72%</b>	<b>73%</b>	<b>83%</b>	55%	52%	54%	55%	37%	58%	
PANGBOURNE	07	11%	12%	12%	12%	12%	13%	<b>90%</b>	<b>95%</b>	<b>86%</b>	<b>82%</b>	<b>81%</b>	<b>81%</b>	<b>79%</b>	<b>78%</b>	<b>80%</b>	<b>90%</b>	<b>96%</b>	<b>74%</b>	35%	35%	24%	17%	15%	54%	
WARGRAVE	09	9%	8%	9%	10%	13%	13%	<b>80%</b>	<b>88%</b>	<b>88%</b>	<b>90%</b>	<b>89%</b>	<b>89%</b>	<b>89%</b>	<b>89%</b>	<b>89%</b>	<b>88%</b>	<b>82%</b>	31%	28%	22%	21%	20%	18%	49%	
MORTIMER	11	3%	2%	2%	2%	5%	9%	11%	23%	30%	28%	31%	20%	18%	17%	19%	18%	19%	17%	16%	15%	13%	11%	10%	15%	
ASCOT	14	<b>93%</b>	<b>94%</b>	<b>94%</b>	<b>94%</b>	<b>94%</b>	<b>99%</b>	<b>99%</b>	<b>97%</b>	<b>94%</b>	44%	39%	38%	38%	37%	37%	39%	43%	<b>87%</b>	<b>82%</b>	<b>78%</b>	<b>78%</b>	<b>81%</b>	<b>89%</b>	<b>89%</b>	<b>73%</b>
CROWTHORNE	15	2%	2%	2%	2%	2%	2%	3%	8%	40%	50%	48%	43%	43%	38%	25%	20%	10%	5%	3%	5%	6%	4%	4%	3%	16%
BRACKNELL	16	42%	42%	42%	44%	50%	50%	<b>62%</b>	<b>63%</b>	<b>67%</b>	<b>62%</b>	<b>60%</b>	<b>63%</b>	<b>63%</b>	<b>63%</b>	<b>62%</b>	<b>65%</b>	<b>63%</b>	<b>66%</b>	<b>63%</b>	<b>64%</b>	<b>59%</b>	<b>49%</b>	<b>43%</b>	<b>40%</b>	56%
MAIDENHEAD	19	5%	5%	5%	5%	10%	19%	58%	58%	58%	55%	52%	49%	50%	45%	42%	42%	38%	40%	8%	7%	7%	6%	8%	26%	
All Retained Stations		20%	19%	19%	20%	21%	23%	37%	50%	54%	45%	43%	42%	42%	40%	39%	39%	39%	47%	34%	30%	28%	26%	23%	34%	

**Notes**

1. 365 day sample (260 weekdays)



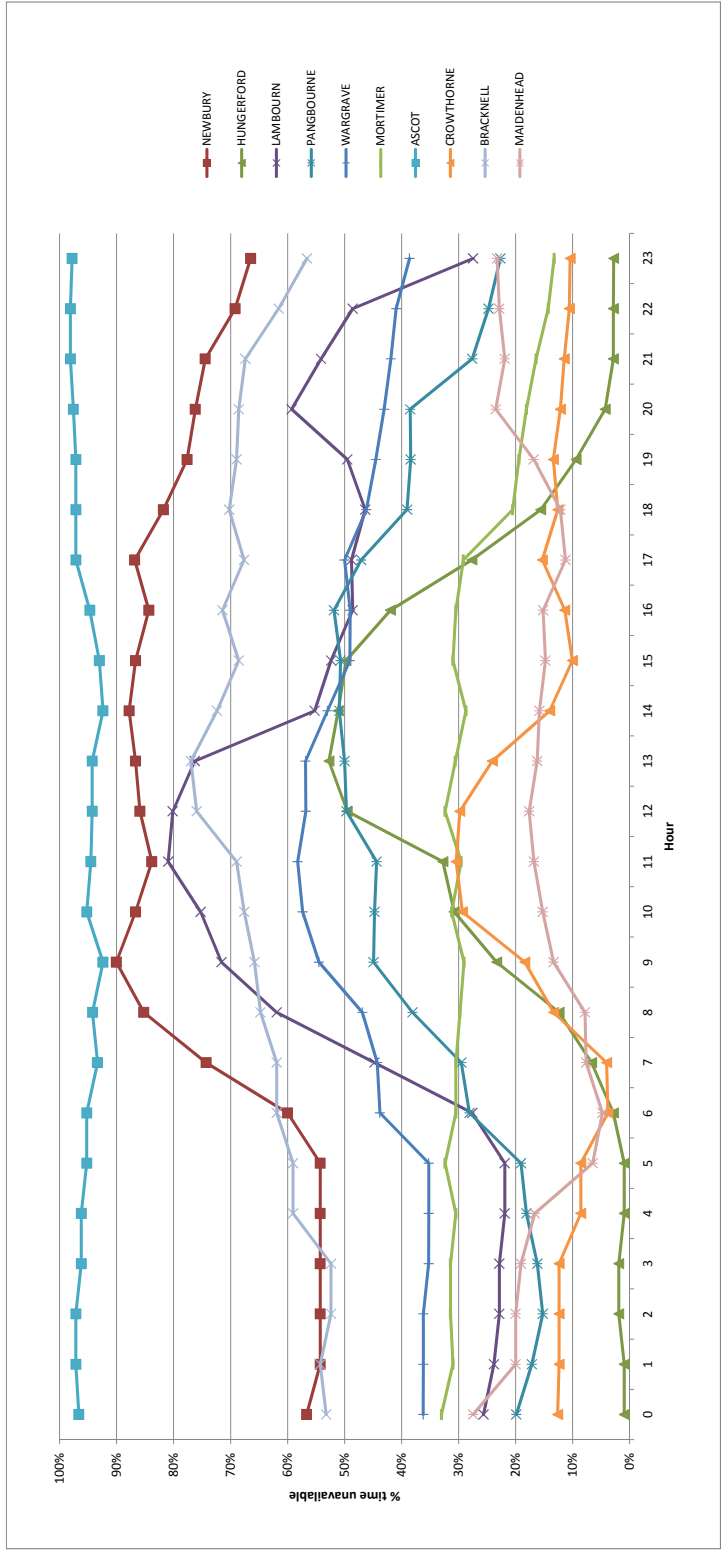
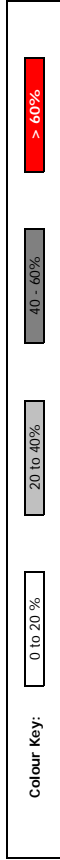
Off the Run Analysis (Retained Crews Only)  
**Station by Hour Summary - Weekends**  
**2012/13**

**Proportion of Hours Unavailable**

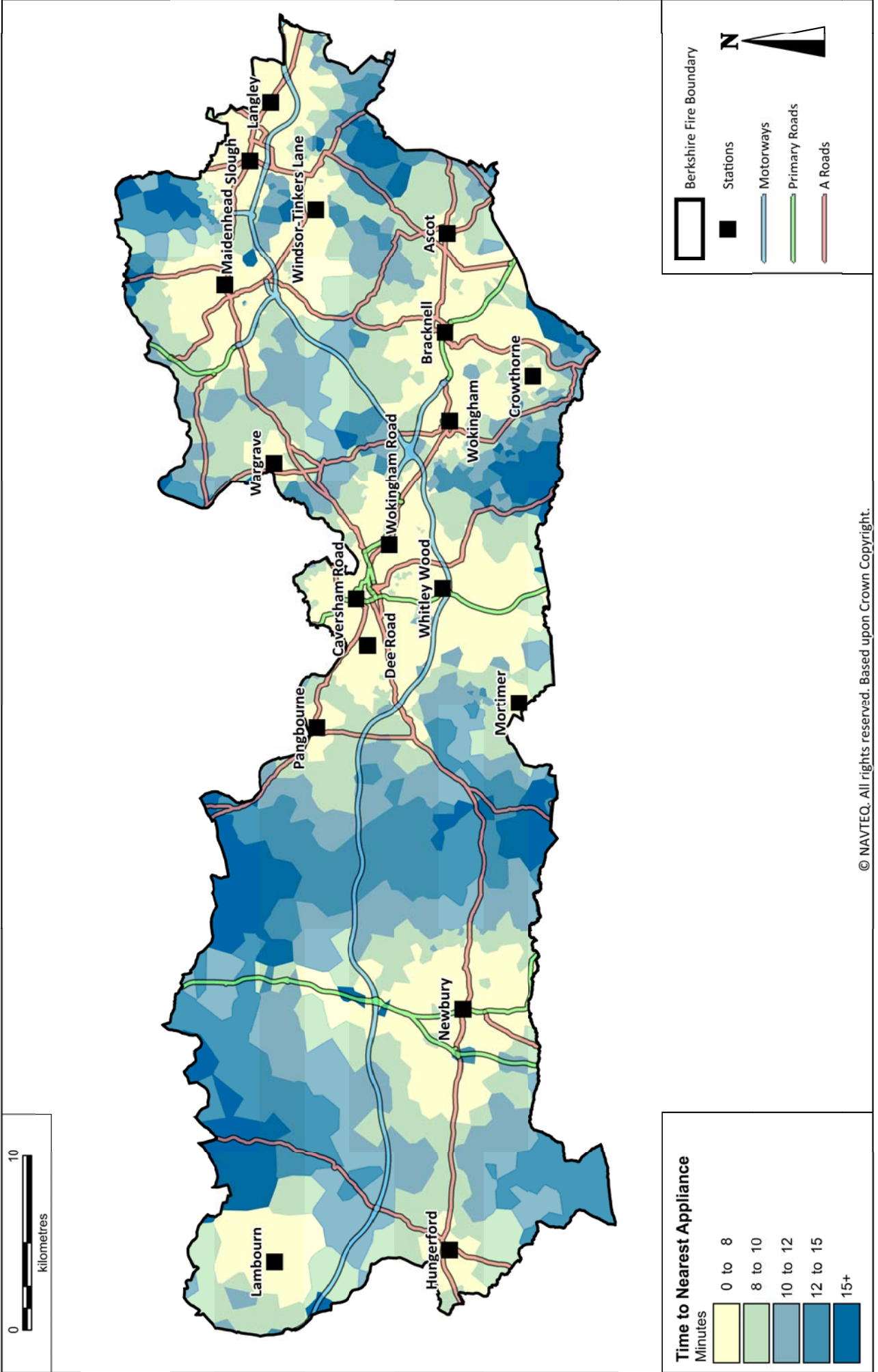
Station	Callsign	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
NEWBURY	04	57%	54%	54%	54%	54%	60%	74%	85%	90%	87%	84%	86%	87%	87%	88%	87%	84%	87%	82%	78%	76%	74%	69%	66%	74%
HUNGERFORD	05	1%	1%	2%	2%	1%	3%	7%	12%	23%	31%	33%	50%	53%	53%	51%	50%	42%	28%	16%	9%	4%	3%	3%	3%	18%
LAMBOURN	06	26%	24%	23%	23%	22%	28%	45%	62%	72%	75%	81%	80%	76%	76%	55%	52%	49%	46%	46%	50%	59%	54%	49%	27%	48%
PANGBOURNE	07	20%	17%	15%	16%	18%	19%	30%	38%	45%	45%	44%	50%	50%	51%	51%	51%	47%	39%	38%	38%	38%	28%	25%	23%	34%
WARGRAVE	09	36%	36%	36%	35%	35%	44%	44%	47%	54%	57%	58%	57%	57%	53%	49%	49%	50%	46%	45%	45%	43%	42%	41%	39%	45%
MORTIMER	11	33%	31%	31%	31%	30%	30%	30%	30%	30%	29%	31%	30%	32%	31%	29%	31%	30%	29%	21%	19%	18%	16%	14%	13%	27%
ASCOT	14	97%	97%	97%	96%	96%	95%	95%	93%	94%	92%	95%	94%	94%	94%	92%	93%	95%	97%	97%	97%	98%	98%	98%	98%	96%
CROWTHORNE	15	13%	12%	12%	12%	9%	4%	4%	4%	13%	18%	29%	30%	30%	24%	14%	10%	11%	15%	13%	13%	12%	11%	11%	10%	14%
BRACKNELL	16	53%	54%	52%	54%	59%	62%	62%	65%	66%	68%	69%	76%	77%	77%	72%	69%	71%	68%	70%	69%	69%	67%	62%	57%	64%
MAIDENHEAD	19	27%	20%	20%	19%	17%	6%	5%	8%	8%	13%	15%	17%	18%	16%	16%	15%	15%	11%	12%	17%	23%	22%	23%	16%	
All Retained Stations		30%	29%	29%	28%	28%	30%	33%	38%	42%	44%	45%	48%	47%	43%	42%	42%	40%	37%	36%	37%	37%	35%	33%	30%	36%

**Notes**

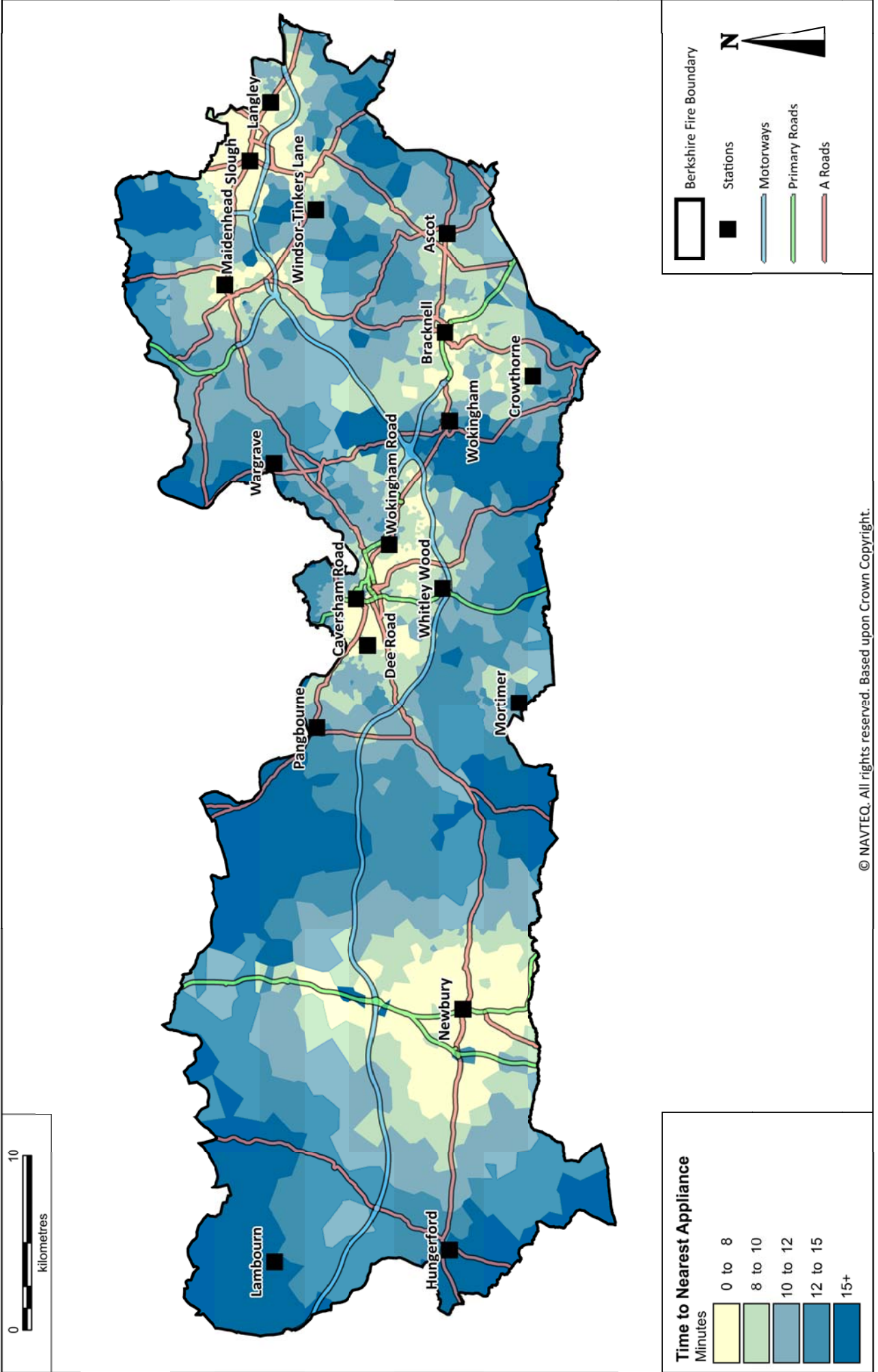
1. 365 day sample (105 weekend days)



# Range Cover of the Base Position for 1st Appliance Attendance Times



# Range Cover of the Base Position for 2nd Appliance Attendance Times







## **B PROPOSED OPTION**

**B1 Summary of the RBFRS Response Standards**

**B2 Response Distributions by Incident & Response Type – Tables**

**B3 Response Distributions by Incident & Response Type – Graphs**

**B4 Average Attendance Times by Station Ground**

**B5 Modelled Workload by Station Ground**

**B6 Proposed Option – Range Coverage Maps**

**B6a** Range Cover Modelling of 1<sup>st</sup> Appliance

**B6b** Range Cover Modelling of 2<sup>nd</sup> Appliance



RBFRS - Station Configuration Modelling

**Proposed Option - Changes at Ascot, Bracknell and Slough**

Response Standards Performance Against Modelled Base; 24-Hour Model - Service-wide

Response Standards		Current Crewing	2013 Modelled Base	Modelling Option	Difference
Dwelling Fires	1st Response in 8 minutes	74.7%	75.4%	75.6%	0.2%
	1st Response in 10 minutes	86.4%	87.2%	87.6%	0.5%
RTCs	2nd Response in 10 minutes	64.0%	69.8%	67.4%	-2.4%
	2nd Response in 12 minutes	79.5%	85.4%	85.2%	-0.2%
1st Response in 11 minutes		81.9%	83.0%	83.7%	0.7%

**Notes:**

2013 Modelled Base: Newbury = 2 WDS; Windsor at Tinkers Lane

Difference = Modelling Option - 2013 Modelled Base

RBFERS - Station Configuration Modelling

**Proposed Option - Changes at Ascot, Bracknell and Slough**

Response Distribution; 24-Hour Model - Service-wide

**1st Appliance to Dwelling Fires**

Mins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
2013 Modelled Base	0.1%	2.4%	8.2%	18.7%	34.4%	51.3%	65.6%	75.4%	82.1%	87.2%	91.4%	94.2%	96.3%	97.5%	98.4%	99.0%	99.3%	99.6%	99.7%	99.8%
Modelling Option	0.1%	2.3%	8.1%	18.7%	34.3%	51.1%	65.2%	75.6%	82.6%	87.6%	91.6%	94.1%	96.1%	97.4%	98.3%	98.9%	99.3%	99.5%	99.6%	99.8%
Difference	0.0%	-0.1%	0.0%	0.0%	-0.1%	-0.2%	-0.4%	0.2%	0.5%	0.5%	0.2%	-0.1%	-0.2%	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%

**2nd Appliance to Dwelling Fires**

Mins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
2013 Modelled Base	0.0%	0.4%	2.1%	5.1%	11.2%	21.1%	33.7%	46.7%	58.6%	69.8%	78.9%	85.4%	90.1%	93.3%	95.5%	96.8%	97.8%	98.6%	99.0%	99.4%
Modelling Option	0.0%	0.2%	1.1%	2.5%	6.5%	14.8%	26.0%	39.2%	53.6%	67.4%	78.0%	85.2%	89.8%	92.8%	95.2%	96.6%	97.7%	98.4%	98.9%	99.3%
Difference	0.0%	-0.2%	-1.1%	-2.6%	-4.6%	-6.3%	-7.7%	-7.6%	-4.9%	-2.4%	-0.8%	-0.2%	-0.3%	-0.5%	-0.3%	-0.2%	-0.1%	-0.1%	-0.1%	0.0%

**1st Appliance to RTCs**

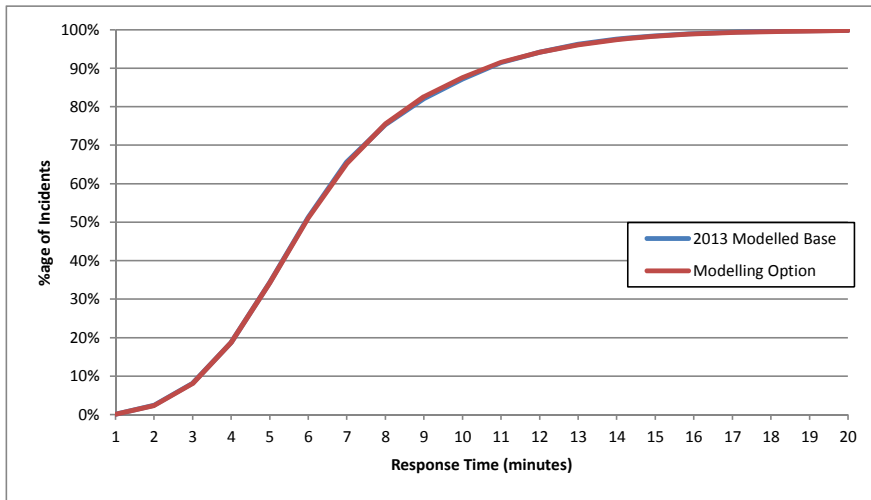
Mins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
2013 Modelled Base	0.2%	3.5%	11.2%	20.8%	31.5%	42.8%	54.0%	63.6%	71.3%	77.8%	83.0%	87.4%	91.0%	93.4%	95.4%	96.6%	97.4%	98.2%	98.7%	99.0%
Modelling Option	0.2%	3.2%	10.3%	19.8%	31.0%	42.6%	54.0%	63.8%	71.8%	78.4%	83.7%	87.9%	91.2%	93.5%	95.4%	96.5%	97.4%	98.2%	98.6%	99.0%
Difference	0.0%	-0.3%	-0.9%	-1.0%	-0.5%	-0.1%	0.0%	0.2%	0.6%	0.7%	0.7%	0.5%	0.2%	0.0%	0.0%	-0.1%	-0.1%	0.0%	0.0%	0.0%

**Notes:**

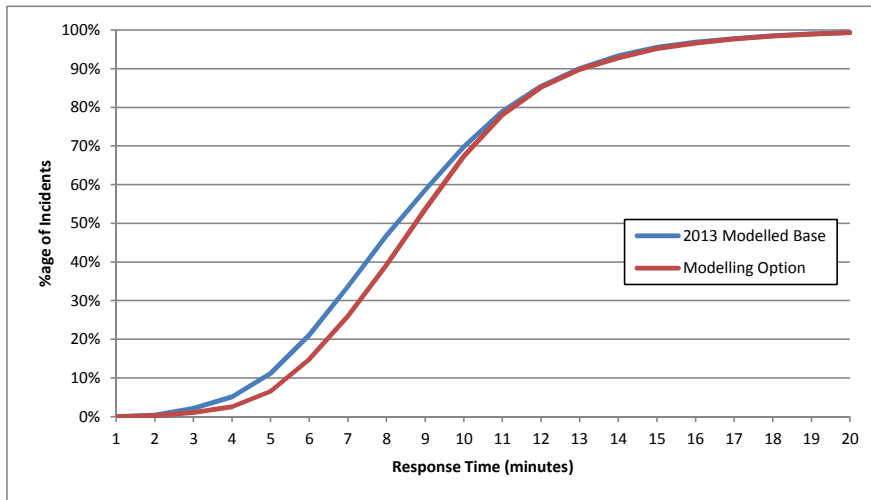
2013 Modelled Base: Newbury = 2 WDS; Windsor at Tinkers Lane

RBFRS - Station Configuration Modelling  
**Proposed Option - Changes at Ascot, Bracknell and Slough**  
Response Distribution; 24-Hour Model - Service-wide

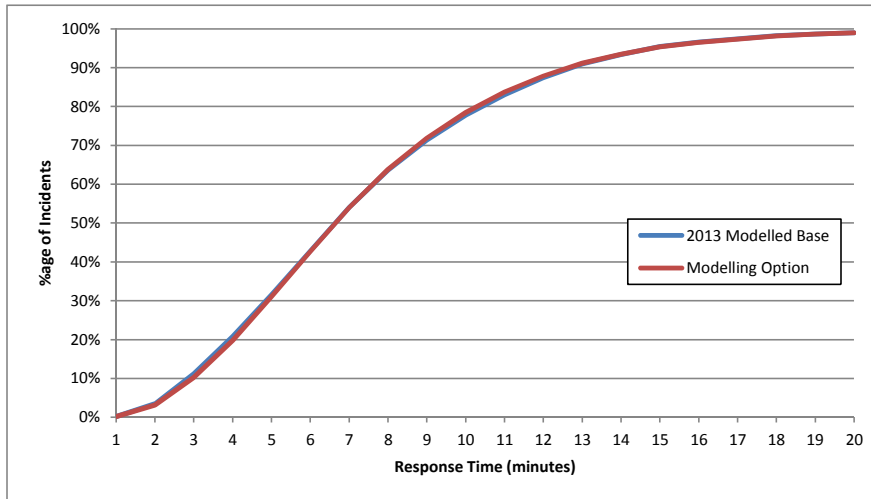
**1st Response to Dwelling Fires**



**2nd Response to Dwelling Fires**



**1st Response to RTCs**



RBFRS - Station Configuration Modelling

**Proposed Option - Changes at Ascot, Bracknell and Slough**

Average Response Times Compared to Validated Position; 24-Hour Averages

Area	2013 Modelled Base		Modelling Option		Difference	
	Avg 1st	Avg 2nd	Avg 1st	Avg 2nd	Avg 1st	Avg 2nd
RBFRS	07:01	09:00	06:57	09:19	-00:05	00:18
Ascot	10:24	12:08	05:18	09:30	-05:06	-02:38
Bracknell	06:06	09:38	05:58	09:17	-00:08	-00:21
Caversham Road	05:29	07:56	05:29	07:56	00:00	00:00
Crowthorne	09:08	10:30	09:07	10:28	-00:01	-00:02
Dee Road	06:10	08:06	06:10	08:06	00:00	00:00
Hungerford	09:14	13:22	09:14	13:22	00:00	00:00
Lambourn	14:29	16:37	14:29	16:37	00:00	00:00
Langley	06:45	08:12	07:00	08:42	00:14	00:30
Maidenhead	06:19	08:52	06:22	08:56	00:03	00:05
Mortimer	11:25	13:54	11:25	13:54	00:00	00:00
Newbury	06:57	08:04	06:57	08:04	00:00	00:00
Pangbourne	11:54	13:29	11:54	13:29	00:00	00:00
Slough	05:54	06:14	06:26	08:45	00:32	02:31
Wargrave	11:42	13:21	11:42	13:21	00:00	00:00
Whitley Wood	06:47	08:59	06:47	08:58	00:00	00:00
Windsor	07:53	09:31	08:08	09:53	00:14	00:22
Wokingham	08:45	13:25	08:44	13:24	-00:01	-00:01
Wokingham Road	06:19	08:13	06:19	08:14	00:00	00:00

**Notes:**

2013 Modelled Base: Newbury = 2 WDS; Windsor at Tinkers Lane

Average response times are to all incidents

RBFRS - Station Configuration Modelling  
**Proposed Option - Changes at Ascot, Bracknell and Slough**  
 Annual Station Workload Compared to Validated Position; 24-Hour Averages

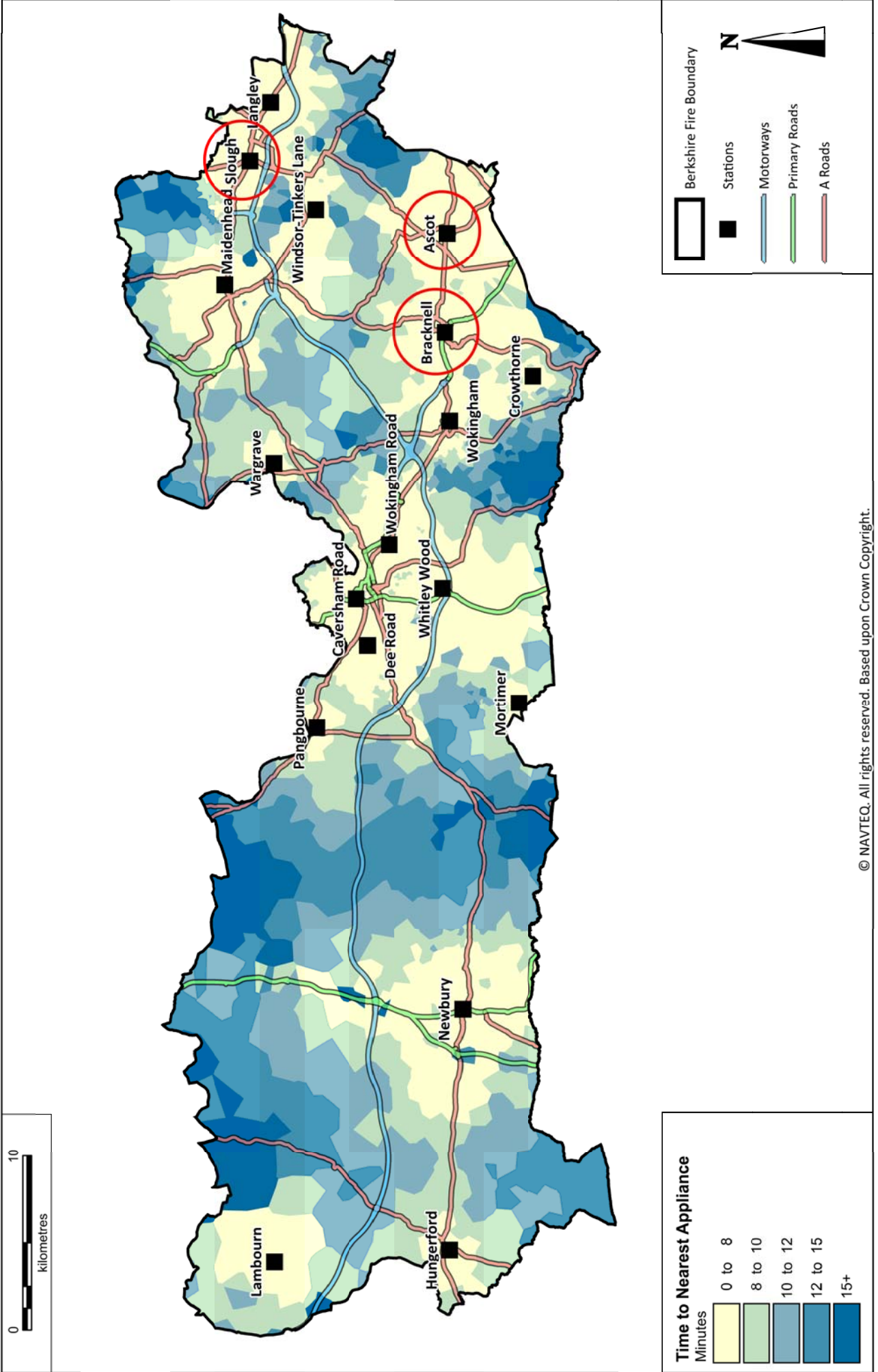
Station	2013 Modelled Base	Modelling Option	Difference
Caversham Road	1011	1011	0
Wokingham Road	747	745	-2
Dee Road	679	679	0
Newbury	874	874	0
Hungerford	138	138	0
Lambourn	22	22	0
Pangbourne	50	50	0
Wargrave	39	40	1
Wokingham	454	441	-13
Mortimer	116	116	0
Windsor (Tinkers Lane)	292	364	72
Ascot	54	343	289
Crowthorne	127	123	-4
Bracknell	995	787	-208
Slough	1679	1280	-399
Langley	470	639	169
Maidenhead	764	858	94
Whitley Wood	638	637	-1

**Notes:**

2013 Modelled Base: Newbury = 2 WDS; Windsor at Tinkers Lane

Workload = Modelled annual number of responses by station

# Range Cover of the Proposed Option for 1st Appliance Attendance Times





# Range Cover of the Proposed Option for 2nd Appliance Attendance Times

