

# Wildfire risk and data

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Historically:

‘Primary fires’ – cause harm or damage or are attended by 5 or more appliances – reported individually (FDR1)

‘Secondary fires’ – monthly totals (FDR3)



## Incident Reporting System (IRS)

- 120,000 'primary' fires to 1.2million 'all incidents' per annum
- In use in all FRSs from 1<sup>st</sup> April 2009
- More details on 'secondary' fires
- Improved details on attendance for all incidents
- More timely and better quality
- Joined up with United Kingdom Vegetation Fire Standard (UKVFS)

**UKVFS Data fields Table 1 – Hierarchy of Data Themes and Sections**

<b>Data Theme</b>	<b>Data Section</b>
Core Data	1. Incident Reference Number ( UK, and EU)
	2. Fire Dates and Times ( UK, and EU)
	3. Fire Location ( UK, and EU)
	4. Fire Size (Burnt Area in Hectares) ( UK, EU and UN)
	5. Cause ( UK, EU and UN)
Impact Data	6. Environmental and Heritage Impact (UK)
	7. Access and Social Impact (UK)
	8. Economic Impact (UK)
Improvement Data	9. Fire Behaviour (UK)
	10. Fire Suppression (UK)
	11. Fire Preparedness & Prevention (UK)
	12. Fire Safety (UK)



### Property Type Selection

Please select a property type from the hierarchy control:

Search:

- Outdoor
  - Grassland, woodland and crops
    - Standing crop
    - Stacked/baled crop
    - Woodland/forest - conifers/softwood
    - Woodland/forest - broadleaf/hardwood
    - Tree scrub
    - Straw/stubble burning
    - Domestic garden (vegetation not equipment)
    - Nurseries, market garden
    - ...



**You currently have not got a Property Type selected.**

### Validate Incident Location

#### Address Gazetteer

Street:

Placename:

Postcode:

Search

Reset

#### Quick Navigation

Zoom In/out:

Map Scale:

1: 10000

#### Manage Incident Location

Selected Co-ordinates: X: 543646 Y: 166641

Reset Map to the original co-ordinates

Reset Co-ordinates

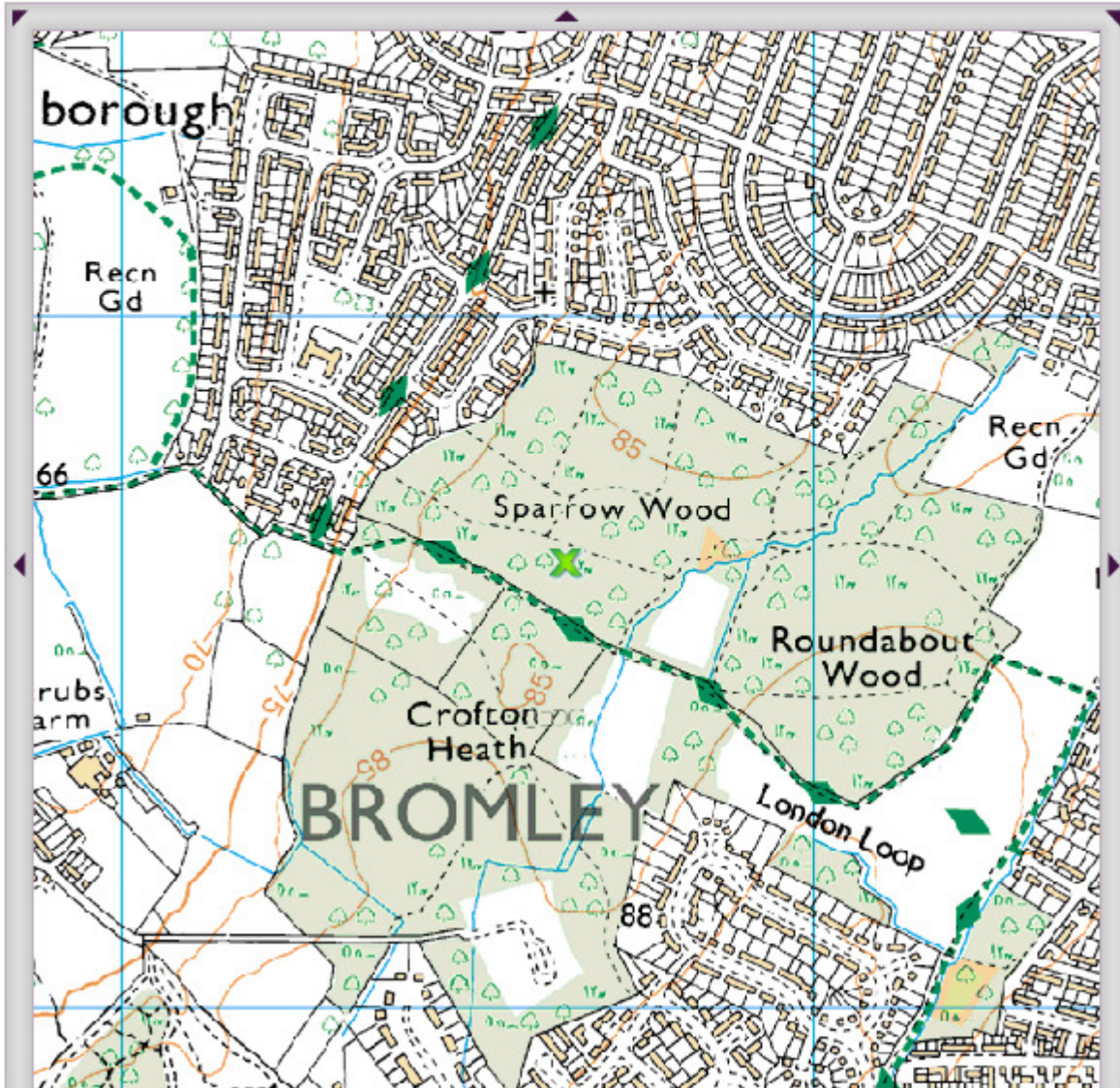
Centre the Map on the selected co-ordinates

Centre on New Co-ordinates

Back

Confirm Location

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- 1. Identifier ▶
- 2. Call ▶
- 3. Attendance ▶
- 4. Location ▶
- 5. Other Details ▶
- 6. Resources ▶
- 7. Action ▶
- 8. Damage ▶
- 9. Persons ▶
- 10. Summary ▶

Inc. No: 321123    Status: 50 Incomplete    Time of Call: 16:48:00 05 May 2009

Other Details

5.15 Cause/Motive ?    Accidental

Please enter information known about any damage caused to an outdoor area.

5.16 Estimated fire damage (sq. m.) ?    Please Select ...

- 5.17 If grassland/woodland, was fire in an area designated as a National Park? ?
- 5.18 Were there any hazardous materials involved? ?
- Please Select ...
  - None
  - Up to 5
  - 6 - 10
  - 11 - 20
  - 21 - 50
  - 51 - 100
  - 101 - 200
  - 201 - 500
  - 501 - 1,000
  - 1,001 - 2,000

Previous    Save and Exit    Next



- 1. Identifier
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Inc. No: 321123    Status: 50 Incomplete    Time of Call: 16:48:00 05 May 2009

Other Details

5.15 Cause/Motive ?    Accidental

Please enter information known about any damage caused to an outdoor area.

5.16 Estimated fire damage (sq. m.) ?    21 - 50

5.17 If grassland/woodland, was fire in an area designated as a National Park? ?  
 Yes  
 No

5.18 Were there any hazardous materials involved? ?  
 Yes  
 No  
 Don't Know

Previous    Save and Exit    Next

Karen Davies  
"CHANGE OF VENUE" Commercialisation Opportunities t...  
Dear Colleague,  
Due to high demand, we have moved the venue for

- Lifting & Hydraulic - Lifting & animal harnesses, straps
- Lifting & Hydraulic - Winches
- Lifting & Hydraulic - Other
- Decontamination Equipment - Decontamination equipment
- Chemical Protective Clothing - gas tight
- Chemical Protective Clothing - non-gas tight
- Line rescue - Line rescue
- Detection/Location Equipment - Thermal imaging camera
- Detection/Location Equipment - Flexible cameras
- Detection/Location Equipment - DIM (ND)
- Detection/Location Equipment - Other
- First aid - Defibrillator (AED)
- First aid - Oxygen
- First aid - Resuscitator
- First aid - Spinal board
- First aid - Other
- Electric Saws/Cutters - Electric saws/cutters
- Pumping Equipment - Electric submersible pump
- Pumping Equipment - Portable pump
- Pumping Equipment - Vacuum, suction hose
- Environment Agency Equipment - Environment agency equipment
- Forcible Entry Tools - Axes/Hammers/Crowbars/Croppers**
- Lift Keys - Lift keys
- Wild fire - Fire beaters
- Wild fire - Rakes, shovels, mathooks
- Wild fire - Knapsacks
- Wild fire - Strategically located water tanks
- Mud/Rescue Paths - Mud/Rescue paths
- Small Tools - Shovels/Forks/Brooms/Chimney Rods
- Fire investigation dog - Fire investigation dog
- Wild fire - Fire beaters

Add Record

incident.

Valid	Options	
✓	Edit	Delete
✓	Edit	Delete
✓	Edit	Delete
✓	Edit	Delete
✓	Edit	Delete

incident.

6.16b Please provide details of the equipment type	6.17 Number Used (e.g. 1) ?	
	3	Delete
	5	Delete

8.7 What was the item, if any, that was mainly responsible for the spread of the fire?

Vegetation - Trees

**Please enter information known about any dangerous substances or explosions involved in the fire.**

8.9 What, if any, dangerous substances were involved?

Please Select ...

8.10 Was there an explosion?

- Yes
- No
- Don't Know

**Please enter information known about damage to outdoor areas.**

8.14 What type of room/compartiment did the fire start in (room of origin)?

On or near tracks or paths

8.35 What was the extent of the area damaged by the fire (sq. m.)?

2,001 - 5,000

8.36 Did the fire occur in an area designated as a National Park?

- Yes
- No

Previous

Save and Exit

Next

Instant Exit

**Home Office  
Further Development  
of Risk Assessment  
Toolkits for the UK Fire  
Service**

Technical Note – Risk Rating  
System for Vegetation, Large  
Heathland and Woodland  
Fires

March 2000

Entec UK Limited

## Wildfire Risk and Impact

Description	Total Area (Thousand km <sup>2</sup> )	Average Economic Loss (£ per ha per Event)
<i>Forestry:</i> · Coniferous · Broad Leaved	<i>13.7</i> <i>13.0</i>	<i>3,000</i> <i>5,000</i>
<i>Agriculture:</i> · Combinable crops · Moorland/Grasses/Other Heaths without sporting interest · Moorland/Grasses/Other Heaths with Sporting interest All Managed · Grassland / horticulture and root crops/ other land	<i>41.8</i> <i>32.1</i>  <i>3.56</i>  <i>127.5</i>	<i>200</i> <i>40</i>  <i>415</i>  <i>0</i>

## Area of damage

grassland damage (m<sup>2</sup>):

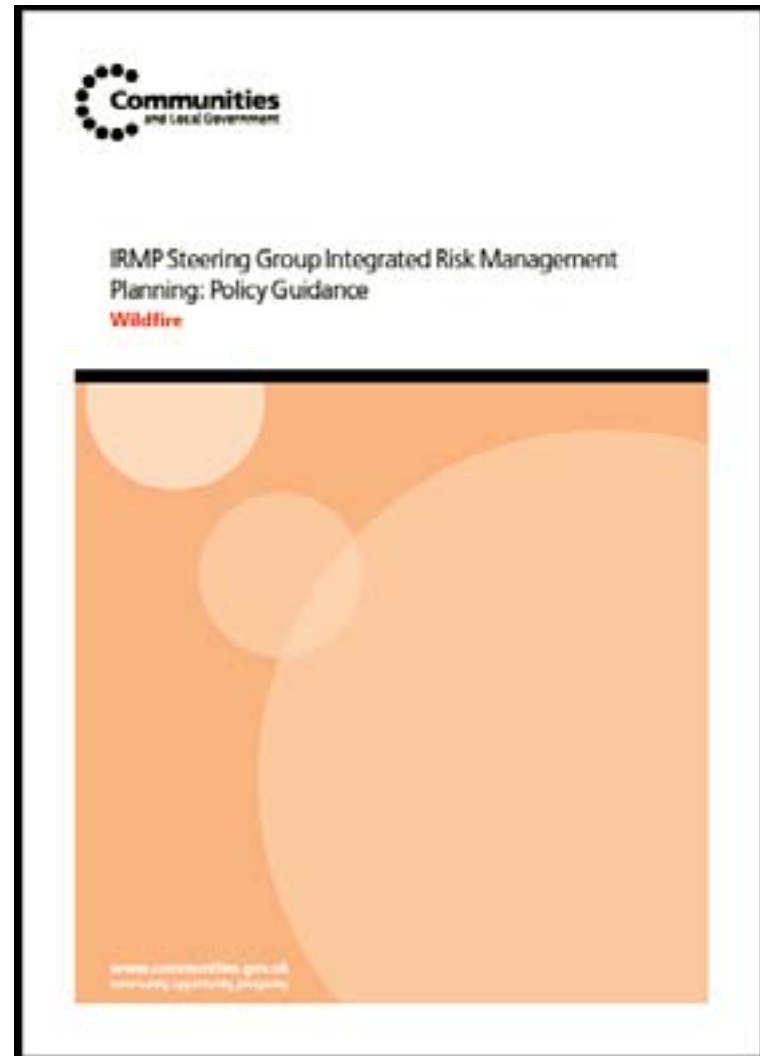
$$\text{Damage} = \frac{0.07}{\sqrt{45.4}} \sqrt{\text{ctrl}}$$

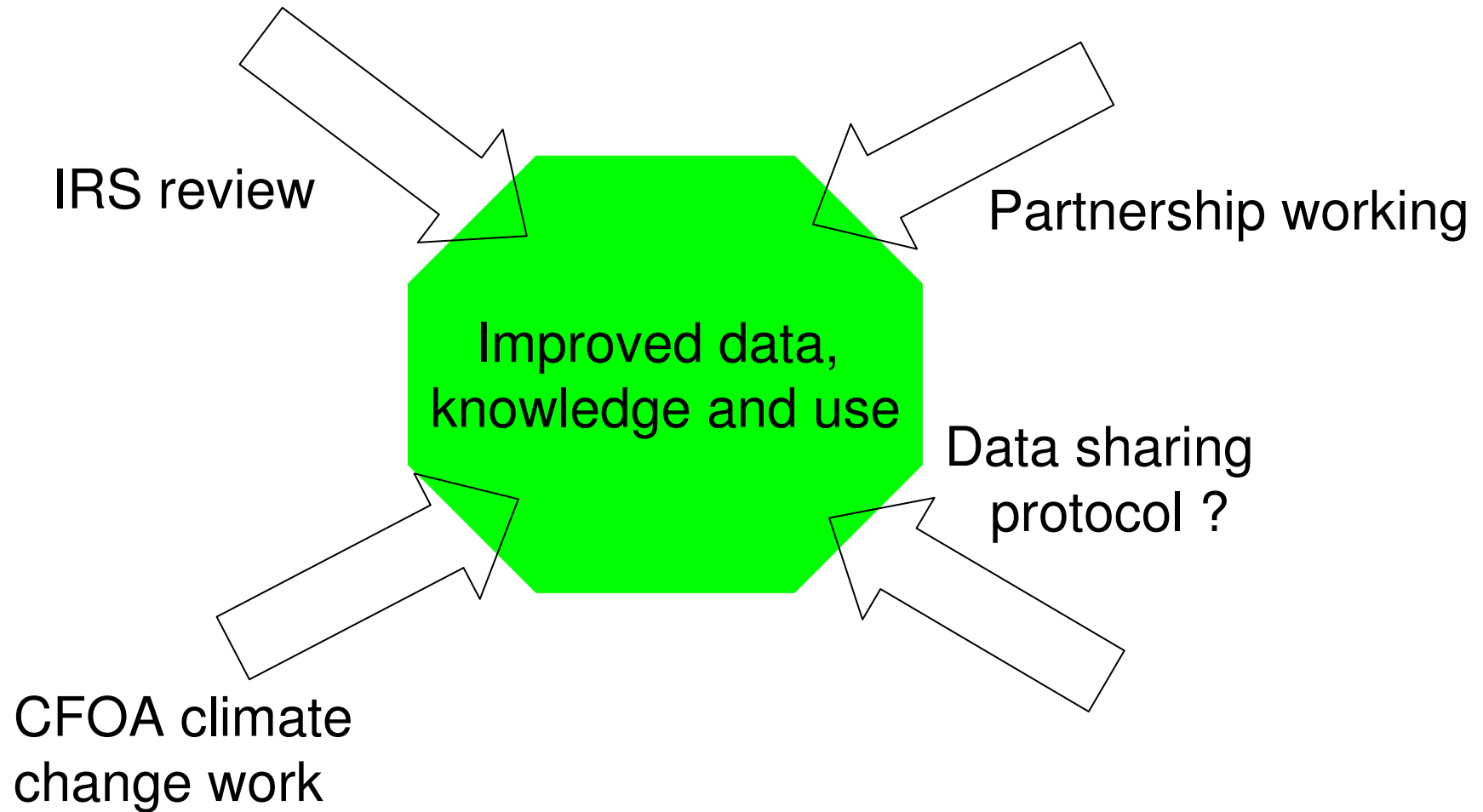
woodland damage (m<sup>2</sup>):

$$\text{Damage} = \frac{0.08}{\sqrt{46.2}} \sqrt{\text{ctrl}}$$

# Integrated Risk Management Planning (IRMP)

- Risk Analysis
- Strategies
  - Prevention
  - Protection
  - Response
  - Recovery
- Delivery Mechanisms
  - Organisations
- Monitoring and Review







Thank you