Sources of Farm Pollution and Impact on River Quality

Map Annex to Project Record 001/13/W

WRc plc

Project Record 001/13/W
Sources of farm pollution and impact on river quality

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NRA Project Record 001/13/W
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EXPLANATORY NOTES

This map annex forms part of the final output of NRA R & D Project 001 on the sources and impacts of farm pollution. It is intended for use in conjunction with the associated Project Record (001/13/W).

Full details of the derivation of the maps in this annex can be found in the Project Record. By way of summary, all maps are outputs from an ARC/INFO GIS-linked database of farm pollution risk, developed under the project. This is an interactive system that can be interrogated for information on a range of factors relating to pollution risk. The catchment framework shown in Map 1 was digitised from hydrometric maps supplied by NRA Regions and, where these were not available, quinquennial river quality maps. All catchments have been codified and linked to catchment names (see Table 1). Livestock and land use data were obtained from the 1988 Agricultural Censuses of England and Wales, Scotland and Northern Ireland. Pollution incident data were derived from NRA regional archives; data for 1988 (a wet year) and 1989 (a dry year) were collated and incorporated into the pollution risk database, but only 1988 data are displayed in this map annex. Table 2 gives details of the pollution incident types and severity codings used.

Owing to difficulties in obtaining pollution incident data, the maps shown in this annex do not have a full geographical coverage. Data is either absent or limited in the following NRA regions:

- **NRA Severn-Trent Region** No data
- **NRA Southern Region** No data
- **NRA Anglian Region** No mapped data, but catchment totals for one district
- **NRA Wessex Region** Only incidents that were considered for prosecution (ie a small proportion)
- **NRA Northumbrian Region** 1989 data only
### Table 1 List of catchments and map codes.

(Catchment codes relate to the codes in Map 1)

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**NRA Southern Region**

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**NRA Wessex Region**

- 24310_4401 MUDE & HIGHCLIFFE
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- 24321b U AVON b (HAMPSHIRE)
- 24322 NADDER
- 24323 WYLYE
- 24324 BOURNE
- 24325 EBBLE
- 24326 MIDDLE AVON (HAMPSHIRE)
- 24327 ASHFORD WATER & ALLEN RIVER
- 24328 LOWER AVON (HAMPSHIRE)
- 24331 UPPER STOUR
- 24332 CALE
- 24333 LYDDEN
- 24334a M STOUR a
- 24334b M STOUR b
- 24335 ALLEN
- 24336 MOORS
- 24337 STOUR
- 24402 POOLE BAY
- 24403 WEYMOUTH BAY
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**NRA Yorkshire Region**

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<td>BERRIEDALE WATER, DUNBEATH WATER &amp; ADJ COA STR</td>
</tr>
<tr>
<td>11123</td>
<td>WICK</td>
</tr>
<tr>
<td>11124</td>
<td>GILL BURN &amp; ADJ COA STR</td>
</tr>
</tbody>
</table>

**North East RPB**

<table>
<thead>
<tr>
<th>CATCHMENT CODE</th>
<th>CATCHMENT NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1165</td>
<td>COWLE WATER &amp; ADJ COA STR</td>
</tr>
<tr>
<td>1166</td>
<td>DYE &amp; WATER OF FEUGH</td>
</tr>
<tr>
<td>1167</td>
<td>M DEE</td>
</tr>
<tr>
<td>1168</td>
<td>U DEE</td>
</tr>
<tr>
<td>1169</td>
<td>U SPEY</td>
</tr>
<tr>
<td>1170</td>
<td>M SPEY</td>
</tr>
<tr>
<td>1171</td>
<td>DULNEIN</td>
</tr>
<tr>
<td>1172</td>
<td>AVON</td>
</tr>
<tr>
<td>1173</td>
<td>U DON</td>
</tr>
<tr>
<td>1174</td>
<td>M DON</td>
</tr>
<tr>
<td>1175</td>
<td>L DEE</td>
</tr>
<tr>
<td>1176</td>
<td>L DON</td>
</tr>
<tr>
<td>1177</td>
<td>URIE</td>
</tr>
<tr>
<td>1178</td>
<td>L SPEY</td>
</tr>
<tr>
<td>1179</td>
<td>DEVERON</td>
</tr>
<tr>
<td>1180</td>
<td>NORTH EAST COA STR A</td>
</tr>
</tbody>
</table>
### Table 1 cont.

<table>
<thead>
<tr>
<th>CATCHMENT CODE</th>
<th>CATCHMENT NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1181</td>
<td>YTHAN</td>
</tr>
<tr>
<td>1182</td>
<td>UGIE</td>
</tr>
<tr>
<td>1183</td>
<td>NORTH EAST COA STR B</td>
</tr>
<tr>
<td>1184</td>
<td>LOSSIE</td>
</tr>
</tbody>
</table>

**Solway RPB**

| 111            | WATER OF LUCE & ADJ COA STR          |
| 112            | BLADNOCH                             |
| 113            | CREE                                 |
| 114            | WATER OF FLEET & DEE                 |
| 115            | WATER OF KEN                         |
| 116            | URR WATER & ADJ COA STR              |
| 117            | U NITH                               |
| 118            | L NITH & CAIRN WATER                 |
| 119            | ANNAN                                |
| 1110           | ESK, LIDDEL WATER & ADJ COA STR      |

**Tay RPB**

| 1150           | EARN                                 |
| 1151           | LOCH TAY                             |
| 1152           | LYON                                 |
| 1153           | U TUMMEL (LOCHS ERICHT, LAIDON & RANNOCH) |
| 1154           | GARRY & TILT                         |
| 1155           | M TAY AND L TUMMEL                   |
| 1156           | BRAAN                                |
| 1157           | ALMOND                               |
| 1158           | ARDLIE AND BLACK WATER               |
| 1159           | DEAN WATER & ISLA                    |
| 1160           | L TAY                                |
| 1161           | COA STR NORTH OF TAY ESTUARY         |
| 1162           | SOUTH ESK                            |
| 1163           | NORTH ESK & WEST WATER               |
| 1164           | EAEN                                 |

**Tweed RPB**

| 1131           | TEVIOT                               |
| 1132           | ETRICK & YARROW WATERS               |
| 1133           | U TWEED                              |
| 1134           | GALA WATER                           |
| 1135           | LEADER WATER                         |
| 1136           | BLACKADDER AND WHITEADDER WATERS     |
| 1137           | EYE WATER                            |
| 1138           | L TWEED                              |
Table 2 Pollution incident type and severity codes

### a) Incident types

<table>
<thead>
<tr>
<th>Study Code</th>
<th>FWR Code*</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>1(a)</td>
<td>CATTLE - Slurry stores/waste collection tanks</td>
</tr>
<tr>
<td>02</td>
<td>(b)</td>
<td>CATTLE - Solids stores</td>
</tr>
<tr>
<td>03</td>
<td>(c)</td>
<td>CATTLE - Yard washings</td>
</tr>
<tr>
<td>04</td>
<td>(d)</td>
<td>CATTLE - Dairy/parlour washings</td>
</tr>
<tr>
<td>05</td>
<td>(e)</td>
<td>CATTLE - Land run-off</td>
</tr>
<tr>
<td>06</td>
<td>(f)</td>
<td>CATTLE - Treatment system failure</td>
</tr>
<tr>
<td>07</td>
<td>(g)</td>
<td>CATTLE - Silage</td>
</tr>
<tr>
<td>08</td>
<td>2(a)</td>
<td>PIGS - Slurry stores</td>
</tr>
<tr>
<td>09</td>
<td>(b)</td>
<td>PIGS - Yard washings</td>
</tr>
<tr>
<td>10</td>
<td>(c)</td>
<td>PIGS - Land run-off</td>
</tr>
<tr>
<td>11</td>
<td>(d)</td>
<td>PIGS - Treatment system failure</td>
</tr>
<tr>
<td>12</td>
<td>3</td>
<td>Poultry</td>
</tr>
<tr>
<td>13</td>
<td>4</td>
<td>Sheep</td>
</tr>
<tr>
<td>14</td>
<td></td>
<td>Other</td>
</tr>
<tr>
<td>15</td>
<td>5 or 10</td>
<td>Where it is unclear whether the incident was due to</td>
</tr>
<tr>
<td></td>
<td></td>
<td>cattle or pig slurry</td>
</tr>
<tr>
<td>16</td>
<td>1 or 8</td>
<td>Where it is unclear whether the incident was due to</td>
</tr>
<tr>
<td></td>
<td></td>
<td>a cattle or pig slurry store</td>
</tr>
</tbody>
</table>

* FWR = annual farm waste report produced by NRA; now discontinued.

### b) Incident severity

Incidents have been graded as either 'serious' or 'minor' in this map annex. A 'serious' incident is defined as either:

- a) a 'major' or 'significant' incident under the national categorisation of incidents;
- or
- b) a 'serious' incident under the FWR grading system.

All other incidents have been categorised as minor. For further details of criteria governing severity grading, see Appendix C in the associated Project Record.
Dairy Cattle: density
By River Catchment

Head/Ab Catchment:
- <0.3
- 0.3-0.6
- 0.6-0.9
- 0.9-1.2
- >1.2

WRC GIS
Beef Cattle: density
By River Catchment

Head/Ha catchment:

- <0.3
- 0.3-0.6
- 0.6-0.9
- 0.9-1.2
- >1.2
Pigs: density
By River Catchment

Head/ha agric. land

- <0.5
- 0.5-1
- 1-2
- 2-3
- >3

WRC GIS

0 100km
Poultry: density
By River Catchment

Head/Ha agric. land

- <10
- 10-20
- 20-30
- 30-40
- >40

WRC GIS
Sheep: density
By River Catchment

Head/Ha agric. land

- <1
- 1-2
- 2-3
- 3-4
- >4
Volumetric organic waste loading from dairy cattle.
(litres/day/hectare of agricultural land)

It 10
10-20
20-30
30-40
gt 40

Pollution Incidents 1988
(See legend over page for details)

WRc GIS
Volumetric organic waste loading from beef cattle.
(litres/day/hectare of agricultural land)
Volumetric organic waste loading from pigs.
(litres/day/hectare of agricultural land)
Volumetric organic waste loading from all livestock types.
(litres/day/hectare of agricultural land)
Total Nitrogen Loading from Livestock to Agricultural Land

gN/day/Ha agric. land

- <100
- 100-200
- 200-300
- 300-400
- >400
Estimated Volumetric Waste Sheepdip Production by River Catchment

I/dip period/Ha cathment

- □ <12
- □ 12-24
- □ 24-36
- ■ 36-48
- □ >48

Pollution Incidents 1988
- Serious Incident
- Minor Incident

Number indicates incident type – see table 2.
Estimated Waste Sheepdip Production in Propetamphos Equivalents by River Catchment

<table>
<thead>
<tr>
<th>pr equiv/dip period/Ha</th>
<th>&lt;6</th>
<th>6-12</th>
<th>12-18</th>
<th>18-24</th>
<th>&gt;24</th>
</tr>
</thead>
</table>

Pollution Incidents 1988
- Serious Incident
- Minor Incident
Number indicates incident type - see Table 2
Average Slope of land in UK River Catchments

Av. slope in degrees

- <1
- /no data
- 1-2
- 2-3
- 3-4
- >4
Surface water run-off potential.
(combining landsape, rainfall and soil permeability)
Organic pollution risk to surface waters from livestock farming.
(combining landslope, rainfall, soil permeability and organic waste loading)
Pollution Risk to Surface Waters from Waste Sheepdip

Risk Class

- very low/no data
- low
- moderate
- high
- very high

Pollution Incidents 1988

- Serious Incident
- Minor Incident

Number indicates incident type
- see table 2

WRC GIS