

The River Ouse, Barcombe Mills



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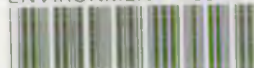
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HAMPSHIRE SALMON INVESTIGATION

REPORT ON SALMON RADIO TRACKING

1991

National Rivers Authority Southern Region.

Hampshire Salmon Project.

Report on Salmon radio tracking in 1991.

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October 1992

Contents

1. Introduction.....	4
2. Commissioning and deployment of equipment.	6
2.1 Deployment of equipment.	6
River Itchen.	6
River Test	7
3. Fish capture.....	8
3.1 River Itchen.....	8
3.2 River Test.	8
4. Results.....	9
4.1 Fish tagged on the Itchen.	9
4.2 Fish tagged on the Test.	9
4.3 Fish movement between the two rivers.	10
5. Recaptured fish.....	12
6. Patterns of movement.	13
6.1 Movement out of Woodmill Pool.....	13
6.2 Movements within the river.	14
6.3 Quiescent phase.	14
6.4 Spawning run.....	15
6.5 Kelts.	15
7. Distributions of spawning.	17
7.1 River Itchen.....	17
7.2 River Test.	17
8. In river structures, River Itchen.	19
8.1 Gaters Mill.....	19
8.2 Bishopstoke area.	20
8.3 Stoke Lock.	20
8.4 Barton Hatches.	20
8.5 Barton weir.	20
8.6 Bishopstoke mill.	21
8.7 Bishopstoke hatch and fish pass.....	21
8.8 Horsebridge hatches.	21
8.9 Allbrook lock.	21
8.10 Kingfisher Lodge hatch.....	21
8.11 Shawford mill.	22
8.12 Twyford hatches.	22
9. Fish movement in the River Test.	23
10. In river structures, River Test.	25
10.1 Testwood storm hatches.	25
10.2 Conagar tubular fish counter.....	25
10.3 Saddlers Mill.....	26
10.4 Abbey Mill Housing Stream.	26
10.5 Test Valley Trout Fish Farm, Romsey.....	26
10.6 Test Valley Trout Fish Farm, Greatbridge.	26
11. Sea Trout.	27
12. Angling pressure.....	28
13. Conclusion.....	29
14. Plans for 1992.	30

Table 1: Radio Tags, River Itchen.....	31
Table 2: Radio Tags, River Test.	32
Figure 1: Strategic locations of automatic listening stations on the Rivers Test and Itchen.	33
Figure 2a: Hourly distribution of June and early July tagged salmon leaving Woodmill Pool.....	34
Figure 2b: Hourly distribution of June and early July tagged salmon Arriving at Stanford Meadows.	34
Figure 3a: Hourly distribution of late July and August tagged fish leaving Woodmill Pool.....	35
Figure 3b: Hourly distribution of late July and August tagged fish arriving at Stanford Meadows.....	35
Figure 4: Weekly records of fish tagged at Woodmill Pool on the River Itchen, passing through scanner stations upstream. Movement shown against average weekly flow.....	36
Figure 5: Distribution of spawning redds on the River Itchen, for 1991.	37
Figure 6: Sites of in river structures, acting as barriers to salmonid migration on the River Itchen.....	38
Appendix	39

1. Introduction.

This document reports on the second year of the Hampshire Salmon Investigation radio tracking program. For a description of the aims of the study, reference should be made to both the "Report on a desk study on the feasibility of salmon radio tracking on the River Itchen" submitted by Dr Solomon, February 1989 and the first years progress report dated May 1991.

The work carried out during 1991 followed along the lines laid out in the "Plans for 1991", section 5 of the 'Report on salmon radio tracking in 1990'. The aims are outlined below:-

1. To tag 50 adult salmon on the Itchen and 30 on the Test. Efforts will be made to tag fish from May onwards, to obtain a more representative coverage of the whole run than was possible in 1990.
2. To develop catching methods to achieve the above targets. Netting at Woodmill Pool will be used to obtain most fish on the Itchen. Trials with gill/tangle nets seaward of Woodmill will also be undertaken.

The site at Redbridge, used in 1990 following extensive trials on the Test estuary, appears to be ideal. Trials will be undertaken with smaller mesh nets of different materials, to try to take fish in consistently good condition.

3. Trials will also be undertaken to capture and tag fish seaward of the two estuaries, so that the behaviour of fish approaching the river can be monitored without the process being interrupted by capture and handling. Successful tracking of even a few fish would represent a most useful extension to the investigation.
4. To deploy a network of up to 16 scanning recording stations on the two rivers. This will allow a more detailed examination of behavior patterns than was feasible in 1990.
5. To undertake detailed tracking of fish at spawning time to establish the distribution pattern of spawning activity.

The basic method employed for the tracking of adult salmonids during 1991 remained unchanged to that used during the first year of the project. (Solomon and Storeton-West, 1983).

The Woodmill net (River Itchen), was again operated during the latter part of the netting season (6th June to 30th July), and supplied all the fish tagged on this river. A variety of methods, including drift netting, netting of targeted individual fish and rod capture, were used to obtain fish on the River Test as well as the methods developed during 1990 (see section 3).

2. Commissioning and deployment of equipment.

Thirty three new radio tags were purchased in early 1991 to return to a complete set of 100 tags initially purchased in 1990. In addition, thirty tags which had either been returned or sealed but unused from the first year of the project, required refurbishment.

The eight listening stations (scanners) used during the first year of the project were found to give inadequate coverage of the two river systems. The number of scanners subsequently increased for the second year of the project resulting from a loan of eight scanners from the Wessex Region of the NRA, whom had recently completed a similar five year study on the Hampshire Avon. A total of 13 scanners were deployed during the year leaving a further four held in reserve.

2.1 Deployment of equipment.

River Itchen.

1. Upstream of Woodmill Pool, about 100m upstream of the netting site. This scanner was located so that it did not detect tags within Woodmill Pool, but recorded their time of passage upstream. It did however pick up tags before release and after recapture at Woodmill as the transmitted signal is very much more powerful when the tag is not immersed in water. Deployed June 26 onwards.
2. Downstream of Gaters Mill, about 2.8km upstream of the netting site. Fish were monitored on entering the Pool; their arrival and departure times were reliably recorded. Deployed June 6 onwards.
3. Stanford Meadows Fishery, about 5.0km upstream of the netting site. Located by a major fish holding pool. Deployed August 4 onwards.
4. Kingfisher Lodge, 11.3km upstream of the netting site. Located in an orchard half way between two channels.
5. Otterbourne Pumping Station, about 13.0km from the netting site. Deployed September 7 onwards.
6. Winchester College grounds, about 21km upstream of the netting site.

River Test

1. Above Testwood Pool, main river, about 2km upstream of the netting site. At times detected fish within the Pool, but reliably recorded time of departure upstream. Deployed July 3 to October 2.
2. Nursling Mill, main river, about 4.8km upstream of the netting site. This site was chosen to detect retention periods within Nursling mill pool downstream of the fish pass. Also possible validation to resistivity counter.
3. Sea pool, Nursling, about 1.4km upstream of the netting site. This site was chosen to enable the calculation of passage time through the Little Test.
4. Lock Hatches, main river, about 5km upstream of the netting site via the main river. This recorded the presence of radio tagged fish ascending both the Main River and the Little River.
5. Broadlands Fishery Hut, 7.1km upstream of the netting site. Deployed August 17 onwards.
6. Willow Cottage, downstream of Saddlers Mill, 9km upstream of the netting site. The site was chosen to indicate the retention period below Saddlers Mill.
7. At Great Bridge, 14.2km upstream of the netting site. Deployed October 2 onwards.

Figure 1, shows the strategic locations of automatic listening stations on the River Test and Itchen.

On-foot and vehicle spot checks were conducted frequently on both rivers, especially in the lower reaches and near spawning time.

3. Fish capture.

3.1 River Itchen.

Fish were again purchased from the Commercial net operating weekly at Woodmill Pool, throughout June and July. Four extra sessions were negotiated with the owner after the close of the netting season, during which the net was operated by NRA personnel. The net on the four extra occasions, as in 1990, was a beach seine of nylon construction with four inch mesh on loan from NRA Wessex Region.

3.2 River Test.

As anticipated fish capture on the Test proved a far more difficult task than on the Itchen. Labour intensive netting sessions from May through to mid September yielded few fish. As a result a number of other methods were attempted in addition to the netting at Redbridge.

A new net was purchased in the early part of 1991 and constructed by Mr D.W.Hunter, specifically for the Redbridge site. The 100 yard net was constructed of multi-monofilament with a three and a half inch mesh size in order to reduce damage to smaller fish. The net was set as a tangle net parallel with the flow on the edge of the main current. This net was also used upstream in an area known as Three Streams, where attempts were also made to catch fish with a beach seine. Other methods employed included drift netting the area of the Solent south west of Calshot and at various sites through Southampton Water. Three fish were caught at Romsey by netting a side-channel i.e. targeting of individual fish and one fish was offered by an angler who wished to return his catch. Eel traps were also considered as a possible source of fish; however fish taken in this manner late on in the year were not considered of good enough condition to risk tagging.

4. Results.

4.1 Fish tagged on the Itchen.

A total of 58 fish were fitted with radio tags at Woodmill fishery between 4th June and the 20th August. Details of the date, weight, length and tag numbers are given in Table 1. Of the 58 fish tagged three were sea trout (*Salmo trutta*) ranging in size from ten to twelve pounds. One other salmon was purchased from the net and fitted with a floy tag only. Three fish subsequently died without leaving the netting site; one was recaptured and killed by the netsmen (several more were recaptured and released), one was killed by an angler fishing the pool and another was found dead at the netting site. Three more fish were killed at sites further downstream through suspected illegal fishing. It is not known whether these fish would have ascended the river or whether they were non-native fish dropping out of the river system. Five fish (8.6%) were recorded entering the River Test.

Of the remaining forty-seven fish, thirty-one were recorded at sites upstream of their tagging location. Thirteen of the remaining sixteen fish were either not recorded again after tagging or were recorded only in Woodmill Pool. Three tags were thought to have been regurgitated. Twenty-nine fish ascended the river upstream of the Lower Itchen Fishery (Gaters Mill), where two were caught by anglers. Twenty-three fish passed upstream of Stanford Meadows of which eight continued on as far as Kiln Lane and only three migrated as far as Otterbourne. Illegal fishing proved a problem throughout the entire length of the river.

4.2 Fish tagged on the Test.

Fish capture on the Test did not yield the expected quantity of salmon required to produce significant results. Nine fish were captured and tagged at two sites (Table 2), with a further five fish entering the river having been tagged at Woodmill Pool on the Itchen.

At the first site, Redbridge causeway, five fish were tagged and released, one of which was a sea trout of about 8lbs. Of these fish only one was not recorded again after tagging. This fish may have been a non-native to the estuary which had strayed or the tag may have failed or been regurgitated in the estuary, where the tag could not be detected in the saline environment. The remaining four fish were all subsequently recorded at upstream sites. Two of the tags were recorded at Testwood fishery one was regurgitated weeks after being fitted, the other was recorded on only a few occasions before leaving the estuary. Of the two fish remaining one travelled up the main arm of the Test ascending as far as Greatbridge before contact

was lost. The second fish followed a passage up the Little Test as far as the junction with the main river (Lock Hatches), before descending the river almost immediately to Cottage Hole where the tag was either regurgitated or the fish died.

A further four fish were tagged at a site 11 km upstream from Redbridge in Romsey, at a site known as 'Abbey Mill'. Three fish were netted in a small side channel below an impassable weir hatch. Two fish were released further downstream below the junction of the two channels, while the third was placed over the hatch back into the main channel. Of the two fish placed downstream, both remained at the site of release for a number of weeks before one dropped back into the Broadlands house stretch and contact was lost with the second. The fish placed over the hatch died of no obvious cause ten days after tagging and was found downstream of Romsey fish farm. Up until the time it died it had been observed swimming strongly upstream of the hatches. A fourth rod caught fish was donated by Mr. D. Steuart, however this fish died a number of hours after being tagged probably due to stress, (the fish was contained within a keepnet for an hour prior to tagging and problems were also experienced during the tagging process).

4.3 Fish movement between the two rivers.

As previously stated five tagged fish migrated from the River Itchen to the Test, which represents 8.6% of fish which were tracked making significant movement from their site of release. This result compares with the 1990 data which showed a 16% interchange between the River Itchen and the River Test, but was from a much smaller sample size.

One of these migrant fish was recorded ascending the river Itchen as high as Gaters mill before dropping out and entering the river Test. It is thought that three of these fish finally spawned in the river Test.

As in 1990 no Redbridge tagged fish were recorded entering the River Itchen.

These results show that coastal and estuary nets such as the nets operated at Woodmill on the Itchen and Mudeford on the Hampshire Avon (estimated to take 6.5% of fish destined for other rivers) may have an impact on the populations of salmon in river systems other than that being netted.

This data is backed by the fact that a further thirteen fish caught and tagged at Woodmill were not recorded at any site upstream of Woodmill Pool, some individuals remained in the area for up to several months before dropping out of the

estuary. This suggests that up to 31% of the catch in the Woodmill net may be of non-native fish.

5. Recaptured fish.

Three fish were recaptured by anglers on the River Itchen representing 5% of the total fish available for capture. This is a large reduction on the previous year which estimated a recapture rate of 25%. One fish was recaptured by an angler in Woodmill pool nine days after release, while the other two fish were caught at the Lower Itchen fishery ten and 33 days respectively after their release from Woodmill. These figures support those of an Atlantic Salmon Trust workshop which suggest that vulnerability to angling is high during the first, rapid river entry phase and that this vulnerability decreases after 2-3 weeks.

Four fish were known to have been taken by illegal methods and several more cases were reported of alleged offenses, some of which coincided with tagged fish known to have gone 'missing'. The main problem areas for this cause of lost fish were, Woodmill Pool and Town Hill Park; the upper reaches of the Lower Itchen fishery; Bishopstoke and upstream to Highbridge (all channels).

Two other fish were known to have died in Woodmill Pool. One killed by netsmen during a netting session and the other was found dead at the site.

Only one fish was recaptured by an angler on the River Test, equating to 17% of fish available for capture during the rapid river entry phase. The fish was caught on its first excursion into Testwood pool having being tagged in the River Itchen 15 days previously.

6. Patterns of movement.

It has been established on many previous occasions that salmon (*Salmo salar*) enter river systems throughout the year and that these populations show seasonal variation in behaviour associated with the arrival of migrant groups which comprise of fish varying in sea age. Both the Rivers Test & Itchen stocks are dominated by summer runs of two and one sea winter fish, with a very diminished spring run of three sea winter fish. As these three cohorts of fish ascend the rivers they are exposed to different environmental conditions. As expected the behavioral strategies of the different cohorts differ as they adapt to the environmental conditions and stimuli which prevail. An Atlantic Salmon Trust workshop in 1989 (Fish movements in relation to freshwater, flow & quality), working on recurrent patterns from tracking studies divided the upstream migration into three major phases:-

1. Rapid river entry
2. Quiescent phase
3. Spawning run

Little or no information is available for the Test and Itchen on movement into and through the estuaries. Fish entering the River Itchen are tagged at the head of tide, Woodmill pool, and it is not known how long they have held within this environment prior to capture. On the River Test fish are captured at a point further down the estuary, however due to the problem in obtaining fish at this site few conclusive results have as yet emerged.

Results which have emerged from the River Itchen during the second year of the tracking project suggest that fish entering the river system in the earlier and later part of the season hold on average for shorter periods in the lower tidal reaches than do those arriving in the summer. Fish which were tagged in June, early July and late August held on average 12 days in Woodmill pool. Fish arriving in the later part of July and the early part of August held for an average of 30 days within the tidal pool.

6.1 Movement out of Woodmill Pool.

Until the end of August 1991 fish moved upstream out of Woodmill Pool independent of river discharge. Diurnal patterns of movement show however that during these periods of low river discharge, movement upstream is nocturnal. This

nocturnal movement was not confined to the crepuscular periods but occurred throughout the entire dark cycle from dusk to dawn, (figure 2 & 3).

This data is supported by Atlantic Salmon Trust (Fish movements in relation to freshwater, flow & quality, 1989) findings which suggest that under low to medium discharge most fish moved at night. At high discharge levels (conditions not yet monitored on the Test and Itchen) this pattern broke down and fish also moved during the day.

In the latter part of the year, increased discharge (or a related factor) stimulated a movement of fish out of the estuarine environment into the river. Some of the fish moving on these spates had been resident within the upper estuary for some months, failing to move on previous spates of equal magnitude.

6.2 Movements within the river.

Once within the river fish showed a greater response to discharge levels during the later months of the year (Figure 4).

Initial movements upstream varied in duration, from a few days to several weeks, however no fish penetrated the river system for more than 5km on its first run before entering a period of reduced activity.

As stated earlier, fish movement in the middle and upper reaches of the river appears to be associated with dynamic hydrographs. It is unfortunate that the project was commissioned during a period of exceptionally low flow; however in these conditions it appears that minimal increases in flow from the very low summer base-flow levels can be enough to trigger movement.

The two major events of 1991 occurred, firstly, during late September when daily mean flows (dmf) rose from 2.8 m³s⁻¹ to 4.0 m³s⁻¹ over a period of 24 hours, and again in early November when flows rose from 3.0 m³s⁻¹ to 4.5 m³s⁻¹ in 72 hours. Both these events triggered movements of fish.

6.3 Quiescent phase.

After an initial spell of activity within the river ranging from a few days to a several weeks, the fish entered a quiescent phase.

The majority of fish showed minimal activity during the first three weeks of September (which coincided with a period of consistently low flows); however at least one fish had entered the quiescent phase by early July, and many fish were still

present in these deep 'residential' holding pools at the end of December. During this quiescent period fish showed little or no response to increases in flow.

Movements later in the year, were generally associated with increases in discharge.

6.4 Spawning run.

The study of fish movement onto the final spawning grounds (Figure 5), indicated that during periods of low flow the final spawning run becomes severely truncated (based on historical data).

The majority of fish tagged during June and July which had laid dormant since late August showed a reluctance to carry out a final spawning run. In the majority of these cases, increased localized movement, after the dormant phase, resulted in spawning, often as late as March.

August tagged fish which had shown continual sporadic upstream movement, exhibited a more significant spawning migration. The majority of these fish ascended to a distance several kilometres above their summer holding pools.

One cock salmon (J8/8) was positively identified twice, spawning with separate hen fish. The actual number of multiple spawners is not known, however on a number of occasions, identifiable fish were seen with different 'partners' in different locations.

Observations studying salmon on the redds indicated that hen fish remained within the area of the redd for about 24 hours post spawning. If spawning was successful and all eggs were released during this first attempt the fish would drop downstream away from the main spawning area. If she remained within the area for a longer period a second mate was found resulting in redding and further spawning. Cock fish remain within the immediate area of the redd for a period of up to a week after spawning, they also appear to be prepared to travel further in search of multiple mates. Post spawning behaviour is one area which can be examined more closely during the 1992 season.

6.5 Kelts.

Four fish were tracked making significant downstream migrations after spawning. This low number may not represent a true picture of the total number of salmon returning to the sea as batteries on the higher pulse rate tags often expire during this period.

Of the four fish recorded migrating downstream, three were hen fish. This ratio of the two sexes would be expected considering the difference in behaviour and physiological condition of the sexes. Males show increased aggression and activity prior to spawning. This increased energy cost and the physical damage often resulting from rapid movement in shallow waters takes its toll in post spawning survival. The male behavioral pattern of remaining on a redd for several days post spawning also increases their exposure to unlicensed fishing and damage from natural predators such as mink and herons.

Time taken for the downstream migration is highly variable. The cock fish covered the 5km from Stanford Meadows to Woodmill in under 24 hours while a hen fish took 72 hours to cover the same distance. The remaining two hen fish took 8 and 41 days respectively to cover the distance between Kingfisher Lodge and Gaters Mill a distance of 8.5km. The fish taking 41 days to complete this journey was not recorded downstream of this site. The second fish taking 8 days to complete the 8.5km migration took a further 27 days to complete the last 2.8km to Woodmill pool.

7. Distributions of spawning.

7.1 River Itchen.

Of the 58 fish tagged at Woodmill twenty-one finally spawned in the River Itchen itself. One fish spawned in the middle reaches of the Lower Itchen fishery, eleven spawned in the Stanford Meadows and Bishopstoke area where a number of non-tagged salmon were also observed spawning. One tagged salmon along with a number of non-tagged fish spawned at Highbridge with a further five tagged fish spawning near Kiln Lane. Three tagged fish spawned between Otterbourne and Twyford.

Distribution of spawning fish again appears to centre several kilometres further downstream than spawning activity generally has in the past, it is thought due to the low flows. Redd observations during this period confirmed that very few fish spawned upstream of Otterbourne with only two fish being observed in the Winchester area.

7.2 River Test.

Six tagged fish were present in the Test during the spawning period, highlighting the problem of fish capture at Redbridge. Single fish were present at the lower end of the Little Test and downstream of the main pool at Testwood (a sea trout). Two fish were present on the Broadlands estate, one in the lower reaches was of River Itchen origin, while the other, downstream of Saddlers Mill was released from the Abbey mill site. A fifth fish spawned upstream of Greatbridge.

A River Itchen tagged fish which entered the Test in August travelled upstream as far as Broadlands House in early December, returning downstream by mid-December. It is uncertain whether this fish spawned or not. Two other fish, one of River Itchen origin, were recorded at Saddlers Mill until mid-November; their fate after this date is unknown.

Three redds were dug in Romsey Memorial Park grounds, and two redds were observed upstream in the Test Valley Trout fish farm channel. Other than these, and a few other scattered reportings, few salmon were observed upstream of Romsey. The highest fish seen on the Test was a hen fish of about eight pounds seen digging a redd in the lower reaches of the Anton in February 1992, she did not however appear to be paired.

Over the last few seasons due to the size and quantity of trout stocked within the river (eight pound plus Brown trout (*Salmo trutta*) and Rainbow trout (*Oncorhynchus mykiss*) no longer an uncommon site), redd counts are no longer thought to be an accurate measurement of successful salmon spawning.

8. In river structures, River Itchen.

Observations were made on a number of in-river structures which could delay or prevent the upstream movement of salmonids (Figure 6). Monitoring was carried out using scanner information and spot checks. Retention periods below Gaters Mill were calculated using first and last recordings of tagged fish on an appropriately placed recording station. Further observations were made on a number of sites in the Bishopstoke area and at other sites upstream by way of spot checks using a mobile receiver.

8.1 Gaters Mill.

A total of seventeen tagged fish were detected passing Gaters Mill between June 28 and November 11. The scanner failed to record a further eleven fish giving this scanner an efficiency of 61%, a figure which should be increased by relocation in 1992.

Retention time downstream of the fish pass varied from 72 days to less than five minutes, with the majority passing this site within five hours. Seven fish passed this site towards the end of September when flows varied between 2.8 and 3.8 m³s⁻¹ indicating that even in low flows this site does not represent a significant obstruction to the passage of fish.

Gaters Mill hatches have been by-passed by a denil style fish pass in which has been placed an electronic fish counter in order to monitor migration activity. Throughout 1991 attempts were made to divert all upstream movement through the counter by placing manual screens at the exit to the hatch tunnels thus preventing fish passage under the road bridge. These screens were not found to be effective as fish still managed to pass around them. For 1992 these screens have been replaced by a small electric screen within the tunnels themselves. Fish using this pathway should become momentarily stunned and washed out of the electric field by the water flow. In the past an electric field was used in the pool immediately downstream of the hatches preventing access of fish to this area.

Delay in passage through this site is related to the length of time taken for fish to detect the entrance (slightly downstream) to the fish pass or to jump successfully clear of the manual screens. Only two hen fish remained in this area for longer than 24 hours; 72 and 23 days respectively. The first fish, taking 72 days to pass the site, spent the whole of the intervening period between the 18th July and 30th September, in the main hatch pool. The second fish, taking 23 days for passage,

first arrived at the site on the 1st November when flows were 4.5 m³s⁻¹. A period of three days was spent below the hatches before dropping back downstream for a further 1.5km. A second ascent took place 16 days later followed by further back tracking. The final ascent on the 26th November resulted in passage through the hatches which took only a few hours to navigate.

8.2 Bishopstoke area.

The middle reaches of the River Itchen consists of five similar sized channels. During years of low flow this alone represents a serious hazard to fish migration as flow through all channels is minimal.

8.3 Stoke Lock.

This site effectively represents an impassable barrier to fish migration. Two tagged fish were detected in the pool directly below the hatch along with many more untagged fish. The first of these two fish was removed by NRA staff and placed over the hatch back into the main arm of the Itchen while the second was killed through illegal fishing.

Stoke lock itself is a five foot high hatch gate which, except for a three inch gap, was closed for the entire duration of 1990 and 1991. Immediately in front of the hatch is a three foot wide sill onto which fish are drawn by the flow. As no further migration is possible fish eventually drop back to spawn in the highly vulnerable shallows downstream.

8.4 Barton Hatches.

Although no information is available from the radio tracking project about passage through Barton hatches three fish were recorded downstream of the hatch towards the end of 1991. It is thought that the hatches would present no obstacle to fish in the early part of the year, however towards the end of the year, when fish are out of condition, the hatch would become impassable. This is due to the depth and velocity of water passing through the hatch resulting from a large upstream head of water.

8.5 Barton weir.

As with the Barton Hatches, this weir would be passable to fresh fish in periods of average river discharge. However towards the later part of the season when flow was negligible a number of fish were spotted on the sill immediately downstream of the weir face. Two tagged fish were present downstream of this area for a number of weeks, however due to the exposed nature of the site it was impossible to leave a scanner to monitor their movements. Both these fish were subsequently detected in

other parallel channels, it is however thought that they had dropped downstream out of the Barton channel rather than ascending the weir.

8.6 Bishopstoke mill.

As for previous obstructions this site would pose few problems to fresh, healthy fish. However due to the number of tagged and untagged fish present immediately downstream of the mill in the later part of the season it is thought that this structure becomes impassable to salmon as their physical condition declines. Nine tagged salmon were detected downstream of the mill. None of these fish ascended past this point and the majority remained to spawn below this obstacle, again in very exposed conditions.

The main river channel directly above the mill is very shallow, only a matter of a few inches, giving fish which do ascend through the mill hatch no cover in what is a highly populated area.

8.7 Bishopstoke hatch and fish pass.

These structures were easily passable to fish at all levels of discharge. This area appears to be an attractive site for fish which often return to this site apparently voluntarily, often after extensive local movement.

8.8 Horsebridge hatches.

When managed correctly these hatches would not delay the passage of fish, other than by creating a well oxygenated holding pool immediately downstream, which in turn induces greater angling pressure. During the later part of 1991 these hatches, due to low flow, were lowered to an extent where they became easily blocked by debris during which time they were impassable to salmonids. These conditions prevailed for long periods at a time in the later half of 1991.

8.9 Allbrook lock.

The navigation channel on which this lock is situated takes a substantial portion of the flow and a number of salmon were observed within this channel. The lock itself is about eight feet in height with water overspilling the top. It is impassable to fish in all observed flow conditions.

8.10 Kingfisher Lodge hatch.

Four tagged fish were recorded at this site on the navigation channel, having bypassed Allbrook. None of the four fish were recorded passing the hatch which although holds back a large head of water has never posed as a problem to fish in previous (admittedly higher flow) years. The time of year in which these four fish

were detected downstream of the hatches suggests that fish may have chosen to remain in this area voluntarily due to spawning rather than the hatches representing a barrier to their movement.

8.11 Shawford mill.

One tagged fish was observed spawning downstream of this weir, again it is not thought that this site would prove to be an obstacle to the upstream movement of salmonids.

8.12 Twyford hatches.

No fish tagged or otherwise were observed in this area, however the very narrow hatches holding back a large head of water are preceded by very shallow sills which may present a problem to fish late on in the year.

Upstream of Twyford, in Winchester and beyond, there are many hatches and weirs which have never presented themselves as major obstacles to salmon movement in the past. Whether or not these characteristics change during periods of extreme low flow is unknown, however the small number of salmon penetrating this far up the system in such flow conditions puts this question out of the realms of this project.

9. Fish movement in the River Test.

Eight salmon and one sea trout were tagged in total on the River Test. To add to this a further five fish tagged on the River Itchen were also recorded entering the river, of which one was subsequently recaptured and killed by an angler at Testwood and another was recorded only once on the Testwood scanner.

Only one of the five fish tagged at Redbridge was recorded making significant movement up stream from the tagging site. The fish was tagged on the 10th of July and was recorded entering Testwood pool three days later. The flows during this period increased by $0.5 \text{ m}^3\text{s}^{-1}$ on what was generally a falling hydrograph. The fish appeared to enter a quiescent phase almost immediately, remaining in Testwood pool until the 29th September, a period of 78 days.

Heavy rainfall in late September increased the flow by over a m^3s^{-1} from that of the summer base-flow. This induced rapid upstream movement and the fish was recorded at Nursling mill four hours after leaving Testwood pool. After this rapid exit from the lower reaches, velocity of upstream migration slowed and the fish took a further ten days in reaching Willow Cottage (10th October). This discontinuous movement was followed by a period of reduced activity (quiescent phase), with only the minimum of local movement. The quiescent phase was ended artificially when the fish was detected in the memorial park housing stream. This stream is prone to illegal fishing and so attempts were made to capture the fish and replace it downstream of Saddlers mill. However on disturbance the fish bolted downstream and was recorded the next day upstream of Saddlers mill. The fish was next recorded up stream of Greatbridge Trout farm on the 8th of January. No information is available on movement in between this period or on retention time below the fish farm. Within 24 hours the fish had moved a further kilometre upstream. This movement coincided with an increased flow of $0.5 \text{ m}^3\text{s}^{-1}$. The fish was not detected again after this time.

One fish tagged on the 10th June was recorded briefly at Lock hatches on the 10th July before it dropped back and either died or regurgitated the tag at the tidal limit. A second fish regurgitated the tag downstream of Testwood pool, the fish had previously been recorded in the Little Test ten days after being tagged and was first recorded at Testwood after a further ten days. It is not known at what point the tag was regurgitated.

The only sea trout to be tagged on the Test was recorded at the saline limit on the main arm of the Test 97 days after being tagged. The tag was detected at this point for a further 48 days (until the 14th January), when contact was lost.

An eleven pound cock salmon released at Willow cottage on the 29th July, remained at this site until the 25th October moving off upstream as flow increased by more than 0.5 m³s⁻¹. Contact was not maintained with this fish, a point of interest is that this fish was not detected on scanners up or downstream of this location.

A second cock fish of similar size and released at Abbey Mill at the same time as the previous fish was observed on a number of occasions swimming strongly at the site of release. Ten days after tagging this fish was found dead entangled in a large ball of weed downstream of Romsey fish farm, cause of death unknown. A third fish released at the same time, was recorded until the 10th February downstream of Willow Cottage and is thought to represent a regurgitated tag.

10. In river structures, River Test.

Upstream migration of salmonids within the river test is hampered by a number of in-river structures which may incur a delay in transit time. By deterring the natural upstream migration of fish they remain exposed to an increased level of predation, mainly from anglers, in the lower reaches of the river.

10.1 Testwood storm hatches.

These hatches are situated at the top end of Testwood Pool, Testwood Fishery, and mark the tidal limit of the river. Automatically controlled hatches replaced manually operated gates which are intended for flood prevention in periods of increased flow. It has been the practice of the fishery to leave one of the hatches open by eight inches for reasons of river management. Fish moving into the pool are often drawn by the flow from the storm hatches to the top end of the pool to which there is no exit other than by a newly constructed and inadequate fish pass. Fish are held at the top of the pool enticed by the flow, unable to negotiate the barrier due to the large head of water on the upstream side (at low tide) and the limited opening of the hatch. Fish enticed into this area are highly visible and are thus exposed to increased angling pressure.

10.2 Conagar tubular fish counter.

A tubular electronic resistivity fish counter was installed at Lock Hatches, Nursling approximately eight years ago for the purpose of monitoring returning salmonid stocks. To ensure passage of fish through the counter an electric screen was installed on the existing hatches to prevent fish passage via this more accessible route. The entrance to the counter is situated close to hatches and provides little difficulty for fish to locate.

Under normal hatch control this site presents no problems to fish passage. Problems are however associated with this site during short periods of time during the close season for salmon when the hatches are closed for reasons of river management. The increased head-loss results in increased in-tube water velocities making upstream passage difficult.

There are no results from fish passing via this route during the 1991 season, a situation which will be addressed in the 1992 season.

10.3 Saddlers Mill.

Although there is no automatic listening station situated at Saddlers Mill, observation of untagged fish indicate that this site during periods of average flow, provided no major barrier to migrating fish. Since the construction of the fish pass, only one tagged salmon has been recorded passing through this stretch. During November the fish was recorded ascending the hatches within a period of forty-eight hours. It is unknown whether the fish ascended via the hatches or the fish pass (whose effectiveness is not known). A greater study is required of this site, however it does not appear to be a major barrier to fish migration.

10.4 Abbey Mill Housing Stream.

This site was used for the capture of three cock salmon, subsequently tagged during the 1991 season.

Although no scanner was placed at this site, observations of tagged and untagged salmon indicate that this stream is highly attractive to migratory fish.

Only inches deep for the majority of its length the stream originates from a hatch on the main river left open for aesthetic reasons, to supply flow to water running through a small housing estate, running back into the main river after a course of about 0.5 km. The impassable hatch and the shallow depth of the stream make this site prone to unlicensed fishing, a situation which requires attention.

10.5 Test Valley Trout Fish Farm, Romsey.

This site is by-passed by a non-MAFF approved fish pass, to which some attention should be focused as to its apparent lack of efficiency. Immediately down stream of this pass is the outlet channel to the fish farm which enters back into the main channel via two recently installed swirl separation tanks. The draw from this outlet channel far exceeds that of the main channel and as a result may act as a barrier to fish migration beyond this point.

10.6 Test Valley Trout Fish Farm, Greatbridge.

Not much is known about fish movement through this site. No fish pass has been installed and the only route for fish past this location is through the main mill race and associated hatches under the main mill buildings. One tagged fish was detected in this site during 1991 however its actual passage to its upstream location went unrecorded, and thus it is not known which route the fish used and any of the problems encountered.

11. Sea Trout.

Four Sea Trout were tagged during the season as little to no information is known about their patterns of migration and spawning areas within the two river systems. Only a limited number of fish were tagged for two main reasons; Firstly the primary concern of the project is towards salmon to which the majority of the limited resources have to be directed. Secondly previous work, inserting transmitting tags into the stomach of sea trout as used for salmon has proved unsuccessful as the majority of tags are regurgitated within a short period of time. However in spite of these two points three large Sea Trout caught in the net at Woodmill Pool and one fish caught at Redbridge were fitted with a radio transmitter.

Of the three fish tagged in the Itchen two were recorded at sites upstream while the third tag was continually recorded for the next six months in Woodmill Pool and was assumed to have been regurgitated. Of the two fish which were recorded at sites further upstream one fish ascended four km up river two to three days after tagging while the second remained at the saline limit of the estuary for about five weeks before also ascending the river to a distance of 4.5 km. Neither of the two fish were recorded at sites upstream of these positions and contact was lost with both fish by the end of November.

The fourth fish tagged on the River Test at Redbridge in late August was detected three months later at the head of the saline limit in the main channel of the river Test. The tag was continually recorded at this site for a further eight weeks and it is most likely that this tag had also been regurgitated.

12. Angling pressure.

Of the 55 salmon tagged on the River Itchen during 1991 only four (7.3%) were subsequently recaptured by rod anglers. One fish caught at the site of tagging, Woodmill Pool, ten days after release. Two further fish were caught four km upstream at Gaters Mill (Lower Itchen Fishery), twelve and thirty seven days respectively after tagging. The first was captured in mid June and was caught whilst making it's first movements upstream. The second of these two fish was caught in mid July and had been resident in the fishery for twenty days prior to capture.

A fourth fish, tagged in Woodmill Pool on the 4th June was caught at Testwood Fishery, River Test, fifteen days later. No information is available for the intervening period. This fish was one of five fish to have visited both the rivers within the upper estuary (see section 4.3).

Five other fish are known to have been caught by methods other than rod and line. One (1.8%) was killed in the Woodmill net, and a minimum of four (7.3%) were removed by illegal methods.

13. Conclusion.

The second year of the planned three year project was frustratingly similar to the previous year in terms of very low river discharge. This has however allowed for detailed observations on the effects of minimum discharge on fish movement.

Results obtained from this years study confirmed observations from the previous year's work, showing fish remaining active for a number of weeks after entering the river. Movement up river was of a generally discontinuous fashion before entering a quiescent period from mid August onwards. Renewed migration occurred only in the later part of the year (November), coinciding with rising hydro-graphs.

Final spawning grounds were again well downstream of historical spawning sites, with very few fish penetrating as far as Winchester on the river Itchen and Stockbridge on the river Test.

It is hoped that the remaining year of this project will provide a wetter summer and autumn than 1990 or 1991 so that a range of environmental conditions may be examined. If 1992 does turn out to be a fourth consecutive dry summer then a case may be made to extend the project by a further two years in order to incorporate a year of average or high river discharge.

14. Plans for 1992.

1. To radio tag 50 salmon on the river Itchen and 30 on the river Test. A variety of techniques are to be used in order to obtain fish including trapping and rod capture as well as the continual back-ground netting at Woodmill Pool (River Itchen) and Redbridge (River Test).
2. To develop catching methods on the Test to achieve above tagging targets. Woodmill Pool on the River Itchen will hopefully provide the majority of fish for the river Itchen. New netting arrangements will have to be negotiated with the owners.
3. To deploy 16 automatic listening stations in a manner similar to previous years, eight on each river.
4. To undertake detailed observations of fish movement through known in river obstructions.
5. To undertake detailed tracking of fish at spawning time to establish the pattern of distribution of spawning activity.

Tag	Floy	Date	Release	Len.	Weight		Cond.
Code		released	site	(cms)	(lbs/oz)		(x/10)
J 1/1	2566	4-Jun-91	Woodmill	77	10.4	F	5
J 7/2	2565	11-Jun-91	Woodmill	93	18	M	8
J 10/1	2569	18-Jun-91	Woodmill	82	14	F	9
J 4/2	2570	18-Jun-91	Woodmill	74	9	F	8
J 8/2	2571	18-Jun-91	Woodmill	74	10	F	7
J 7/1	2592	18-Jun-91	Woodmill	76	14	F	7
J 4/1	2558	25-Jun-91	Woodmill	61	6	M	6
J 7/4	2599	25-Jun-91	Woodmill	82	14	M	8
J 3/4	2597	25-Jun-91	Woodmill	73	11	M	7
J 9/3*	2598	25-Jun-91	Woodmill	72	12	M	9
J 1/4	2559	2-Jul-91	Woodmill	77	12	M	7
J 1/2	2573	2-Jul-91	Woodmill	60	5	M	5
J 2/1	2564	2-Jul-91	Woodmill	77	12	M	9
J 10/2	2560	2-Jul-91	Woodmill	77	11	M	8
	2563	2-Jul-91	Woodmill	80	13	M	7
J 10/3	2561	9-Jul-91	Woodmill	66	6	F	6
J 4/6	2575	9-Jul-91	Woodmill	79	9	F	7
J 5/6	2594	9-Jul-91	Woodmill	76	8.8	F	5
J 7/6	2576	9-Jul-91	Woodmill	66	6	F	8
J 7/2A	2591	16-Jul-91	Woodmill	86	16	M	8
J 2/6	2577	16-Jul-91	Woodmill	67	12	F	8
J 1/6	2590	16-Jul-91	Woodmill	86	13	F	7
J 10/6	2589	16-Jul-91	Woodmill	74	10	F	9
J 6/6	2588	16-Jul-91	Woodmill	57	5	F	7
J 3/6	2587	16-Jul-91	Woodmill	63	7	F	4
J 6/3*	2578	16-Jul-91	Woodmill	69	11	M	9
J 7/5	2586	23-Jul-91	Woodmill	83	12	M	7
J 7/6A	2584	23-Jul-91	Woodmill	64	6.8	F	7
J 4/5	2583	23-Jul-91	Woodmill	67	7	F	6
J 8/6	2582	23-Jul-91	Woodmill	65	6.8	F	7
J 8/5	2581	23-Jul-91	Woodmill	68	7	F	7
J 9/5	2580	23-Jul-91	Woodmill	57	4.8	F	7
J 9/4	2579	23-Jul-91	Woodmill	65	6	M	8
J 9/6	2899	23-Jul-91	Woodmill	84	11	M	8
J 3/5	2895	30-Jul-91	Woodmill	63	6.8	F	8
J 10/8	2894	30-Jul-91	Woodmill	66	7	F	5
J 1/8	2893	30-Jul-91	Woodmill	61	6	F	8
J 6/8	2892	30-Jul-91	Woodmill	63	6.8	F	7
J 9/8	2890	30-Jul-91	Woodmill	78	8.8	F	7
J 8/8	2889	30-Jul-91	Woodmill	62	6	M	5
J 2/8	2888	30-Jul-91	Woodmill	65	7	F	7
J 1/5*	2891	30-Jul-91	Woodmill	69	9.8	M	7
J 1/3	2881	6-Aug-91	Woodmill	60	5.8	F	8
J 5/8	2884	6-Aug-91	Woodmill	60	5.8	F	8
J 4/8	2882	6-Aug-91	Woodmill	62	5	F	7
J 7/6C	2854	6-Aug-91	Woodmill	62	5.8	F	6
J 4/2A	2881	6-Aug-91	Woodmill	61	5.8	M	8
J 2/9	2880	6-Aug-91	Woodmill	64	5.8	M	9
J 8/4	2855	6-Aug-91	Woodmill	66	6	F	9
J 2/5	2879	6-Aug-91	Woodmill	62	6	F	6
J 3/2	2856	13-Aug-91	Woodmill	59		F	8
J 10/9	2857	13-Aug-91	Woodmill	67		M	8
J 8/9	2858	13-Aug-91	Woodmill	75		M	8
J 4/8A	2859	13-Aug-91	Woodmill	67		M	8
J 10/5A	2860	13-Aug-91	Woodmill	59		M	8
J 10/8A	2861	20-Aug-91	Woodmill	57		F	7
J 3/9	2876	20-Aug-91	Woodmill	58		M	8
J 3/3	2862	20-Aug-91	Woodmill	63		M	8
J 6/9	2864	20-Aug-91	Woodmill	65		M	9

Table 1: Radio Tags, River Itchen.

Tag	Floy	Date	Release	Len.	Weight		Cond.
Code		released	site	(cms)	(lbs/oz)		(x/10)
J 8/1	2567	10-Jun-91	Redbridge	65		F	5
J 1/1A	2553	25-Jun-91	Redbridge	64		F	6
J 2/3	2593	10-Jul-91	Redbridge	62		F	6
J 6/5	2830	29-Jul-91	Romsey	81	13	M	6
J 3/6	2897	29-Jul-91	Romsey	81	11	M	6
J 10/5	2896	29-Jul-91	Romsey	81	14	M	7
J 7/8	2886	2-Aug-91	Redbridge	64		M	6
J 10/4*	2877	22-Aug-91	Redbridge	66	8	F	9
J 7/6B		4-Aug-91	Romsey	61	5	F	4

Table 2: Radio Tags, River Test.

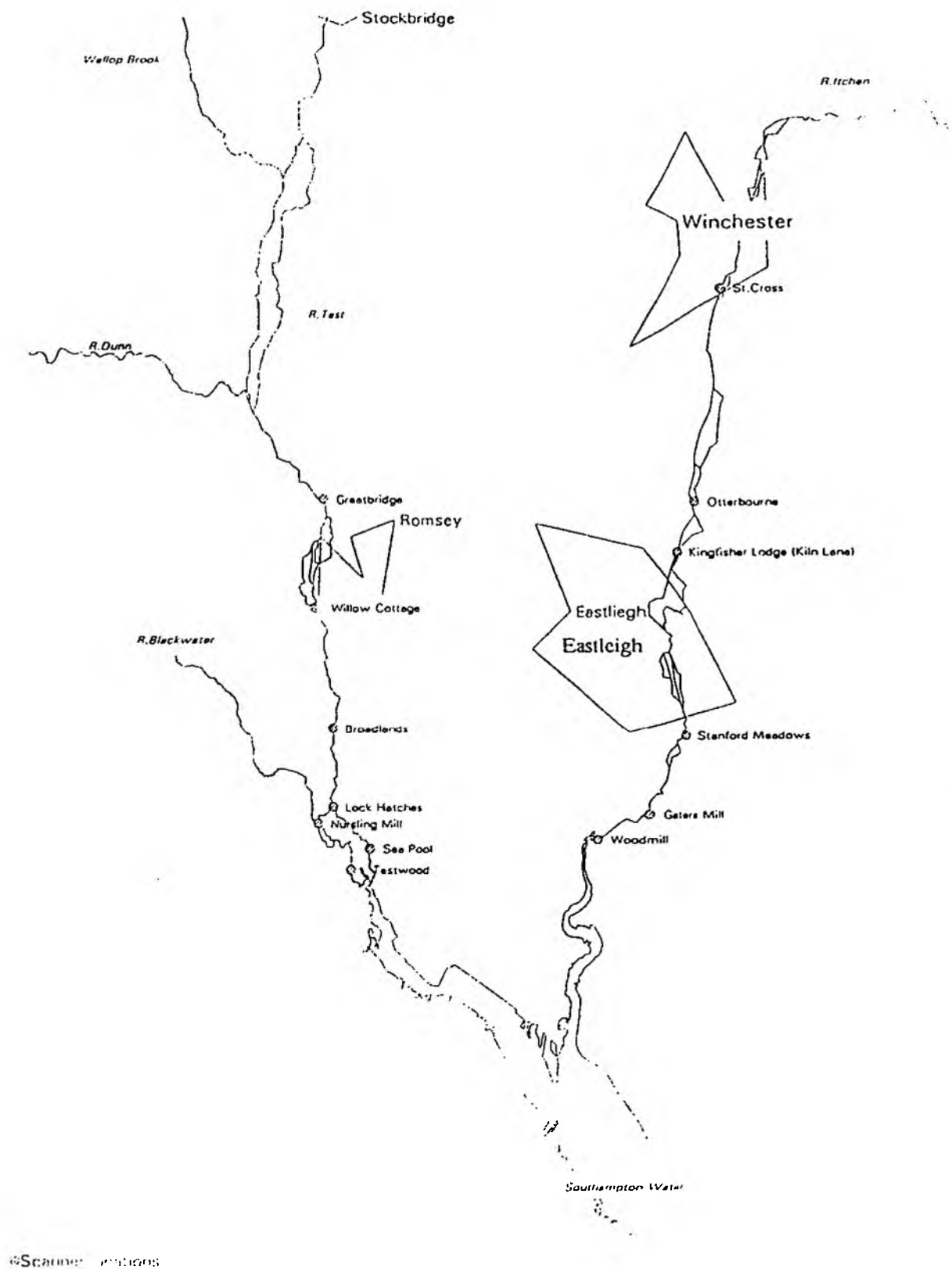


Figure 1: Strategic locations of automatic listening stations on the Rivers Test and Itchen.

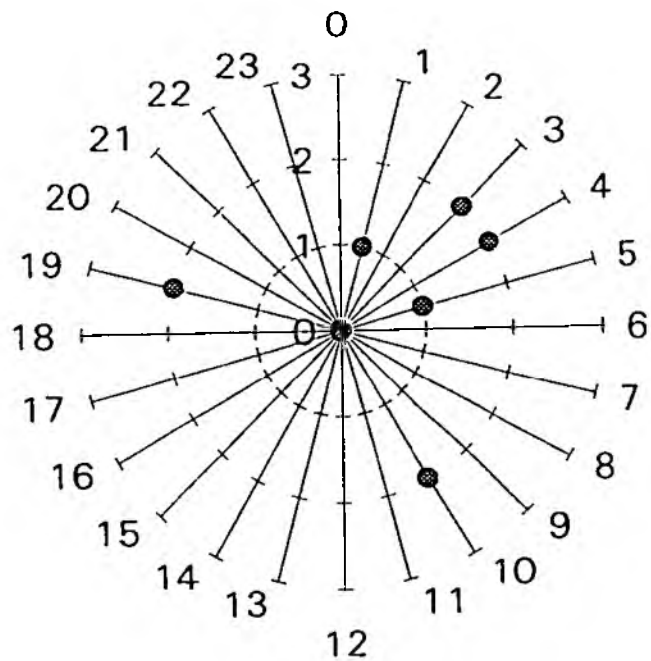


Figure 2a: Hourly distribution of June and early July tagged salmon leaving Woodmill Pool.

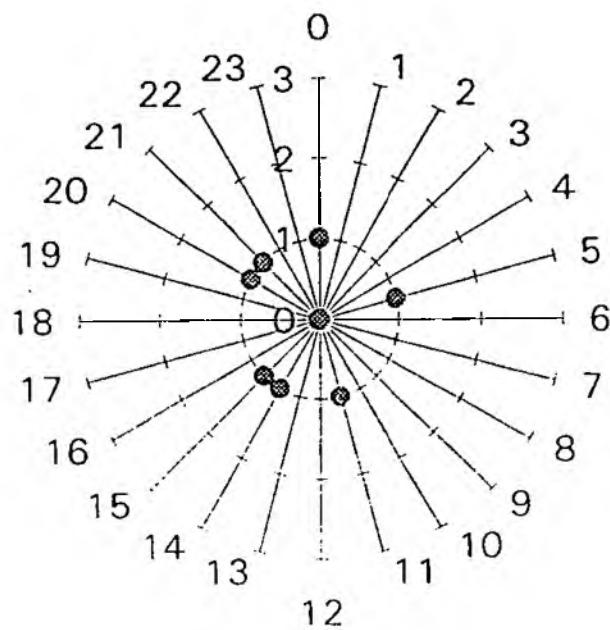


Figure 2b: Hourly distribution of June and early July tagged salmon Arriving at Stanford Meadows.

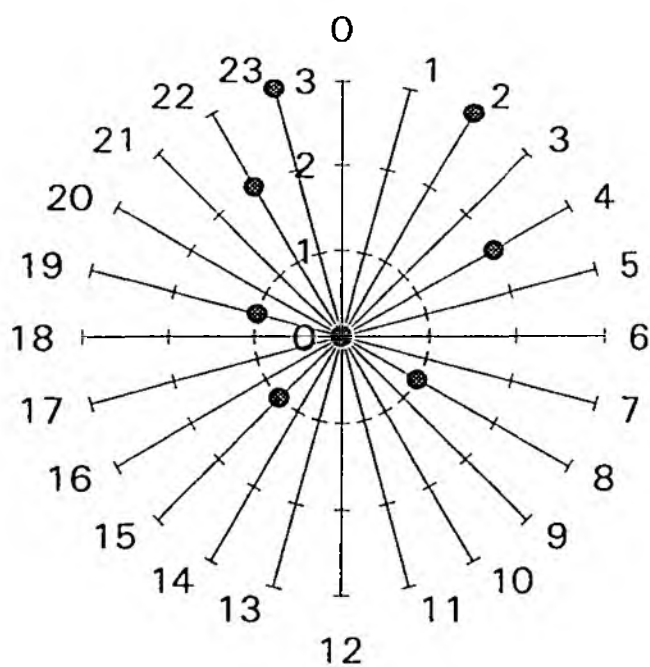


Figure 3a: Hourly distribution of late July and August tagged fish leaving Woodmill Pool.

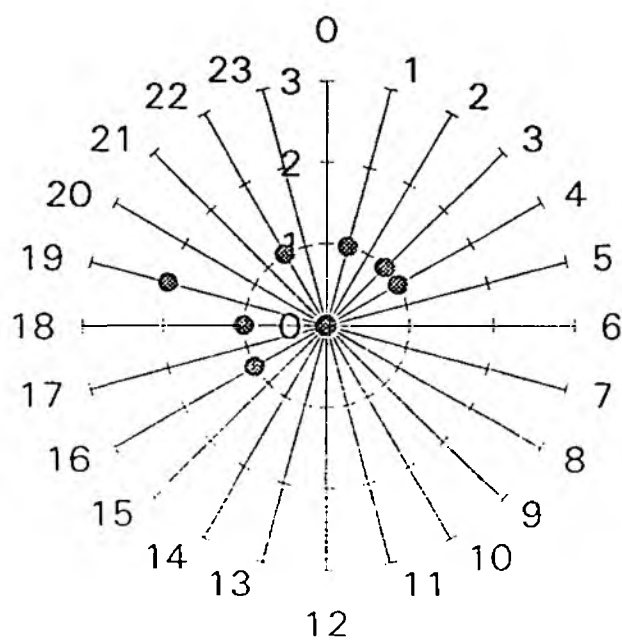


Figure 3b: Hourly distribution of late July and August tagged fish arriving at Stanford Meadows.

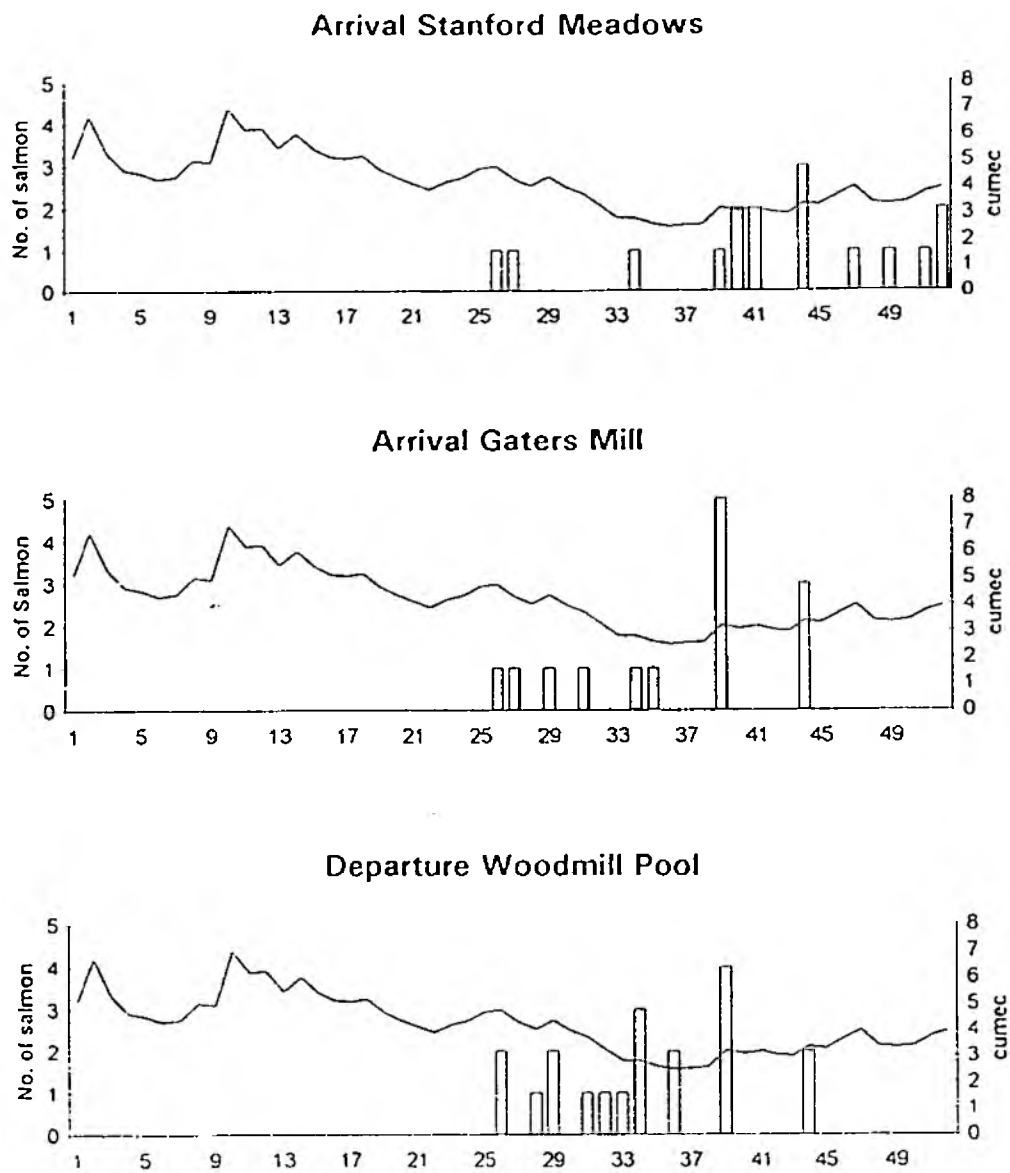


Figure 4: Weekly records of fish tagged at Woodmill Pool on the River Ichen, passing through scanner stations upstream. Movement shown against average weekly flow.

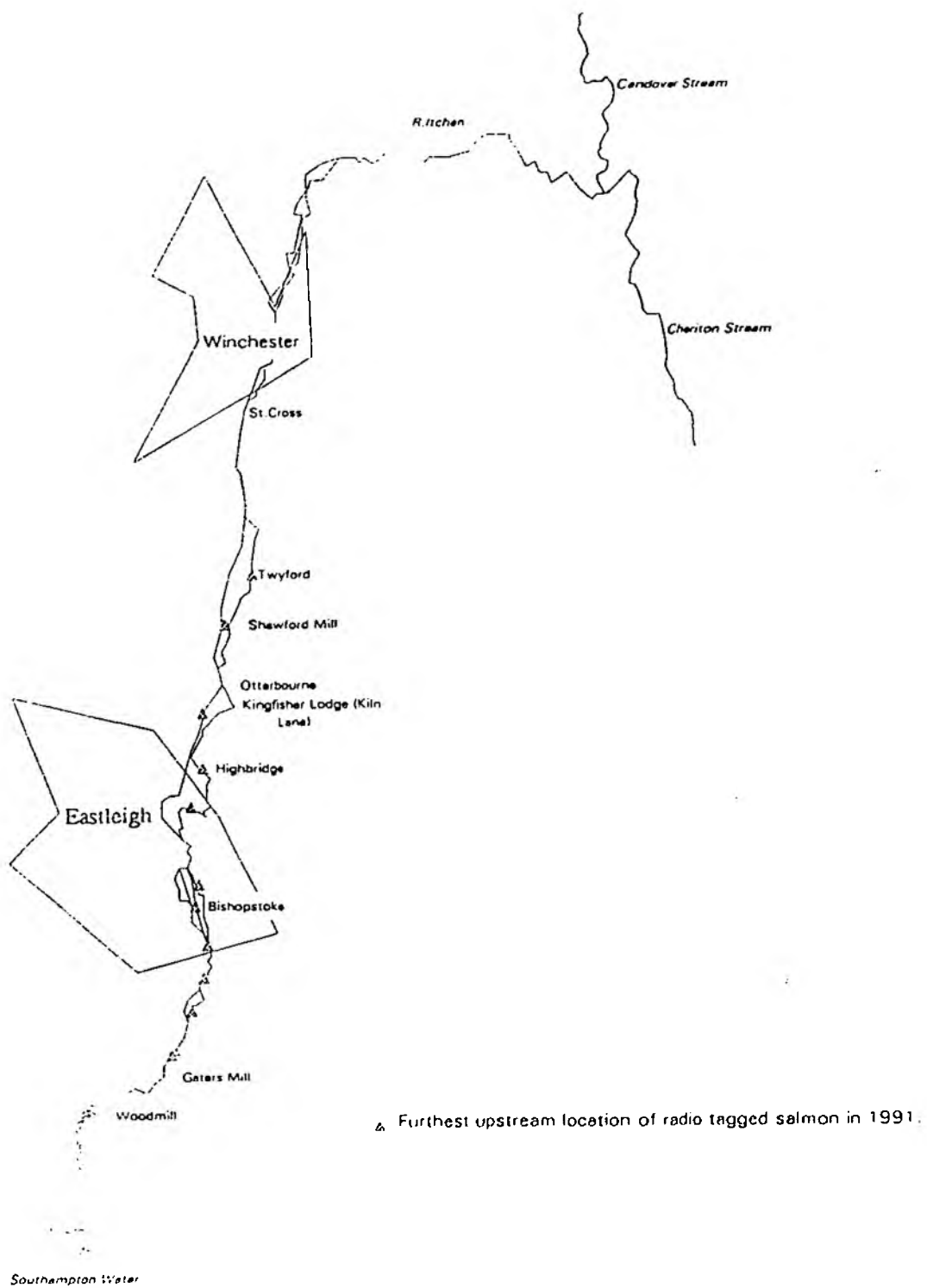


Figure 5: Distribution of spawning redds on the River Itchen, for 1991.

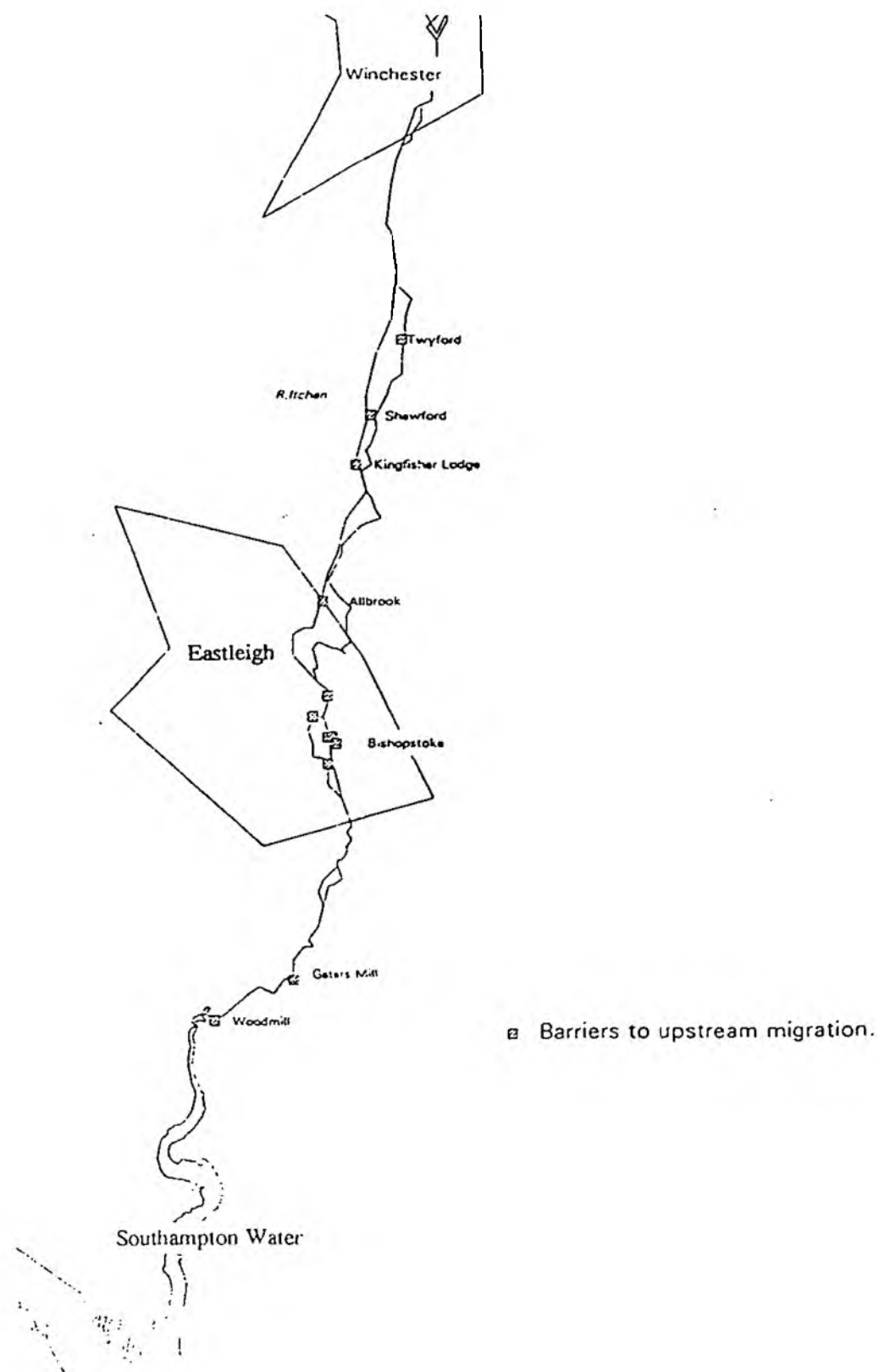


Figure 6: Sites of in river structures, acting as barriers to salmonid migration on the River Itchen.

Appendix

FLOY: 2566 LENGTH: 77 WEIGHT: 104 SEX: F CONDITION: S110
RELEASE DATE: 4/6

TAG	DATE	TIME	DATE	TIME	LOCATION
J1/1	4 Jun 1991				WOODMILL
	19 Jun 1991				TESTWOOD

FLOY: 2553 LENGTH: 64 WEIGHT: SEX: F CONDITION: 6/10
 RELEASE DATE: 15/6

TAG	DATE	TIME	DATE	TIME	LOCATION
J1/1A	25 Jun 1991	10:50			REDBRIDGE
	5 Jul 1991				COTTAGE HOLE NURSING
	15 Jul 1991	13:10			TESTWOOD
	19 Jul 1991	13:00			TESTWOOD POOL
	8 Aug 1991	13:15			D\S TESTWOOD POOL
	14 Aug 1991	10:00			TESTWOOD POOL
	20 Aug 1991				TESTWOOD POOL
	28 Aug 1991	10:15			TESTWOOD POOL
	9 Sep 1991	9:45			TESTWOOD POOL
	16 Sep 1991	17:00			TESTWOOD POOL
	24 Sep 1991	10:00			TESTWOOD POOL
	30 Sep 1991	14:00			TESTWOOD POOL
	2 Oct 1991	11:15			D\S TESTWOOD POOL
	8 Oct 1991	11:30			D\S TESTWOOD POOL
	11 Oct 1991	9:30			D\S TESTWOOD POOL
	23 Oct 1991	12:45	23 Oct 1991	13:04	TESTWOOD
		13:30			D\S TESTWOOD POOL
	29 Oct 1991	10:30			D\S TESTWOOD POOL
	4 Nov 1991	12:30			D\S TESTWOOD POOL
	15 Nov 1991	10:00			D\S TESTWOOD POOL
	20 Nov 1991	15:30			D\S TESTWOOD POOL
	27 Nov 1991	16:00			D\S TESTWOOD POOL
	3 Dec 1991	17:00			TESTWOOD POOL
	4 Dec 1991	11:00			TESTWOOD POOL
	12 Dec 1991	9:30			BRIDGE POOL TESTWOOD
	27 Dec 1991	10:30			D\S TESTWOOD POOL
	14 Jan 1992	14:15			D\S TESTWOOD POOL

FLOY: 2573 LENGTH: 60 WEIGHT: 5 SEX: M CONDITION: 5/10
RELEASE DATE: 28/6

TAG	DATE	TIME	DATE	TIME	LOCATION
J1/2	28 Jun 1991	23:05	29 Jun 1991	1:10	WOODMILL
	2 Jul 1991	9:10			WOODMILL
	3 Jul 1991				WOODMILL POOL
	9 Jul 1991	15:00			WOODMILL POOL
	10 Jul 1991	4:00	11 Jul 1991	5:30	WOODMILL
	12 Jul 1991	7:30	12 Jul 1991	22:15	WOODMILL
	16 Jul 1991	7:30			WOODMILL POOL
	4 Sep 1991	14:30			FOUR HATCHES G.M.
	20 Sep 1991	10:30			FOUR HATCHES G.M.
	1 Oct 1991	14:00			REEDY BAY G.M.
	15 Oct 1991	14:20			FOUR HATCHES G.M.
	7 Nov 1991	11:45			SWANS NEST G.M.
	26 Nov 1991	15:30			U/S SCIVERS DITCH S.M.
	2 Dec 1991	12:30			JUNCTION S.M.
	22 Dec 1991	22:25			OTTERBOURNE
	23 Dec 1991	3:55			OTTERBOURNE
	19 Feb 1992	23:40			OTTERBOURNE

FLOY: 2881 LENGTH: 60 WEIGHT: 5.8 SEX: F CONDITION: 8/10
RELEASE DATE: 6/8

TAG	DATE	TIME	DATE	TIME	LOCATION
J1/3	6 Aug 1991	13:30			WOODMILL
	1 Oct 1991	12:00			WOODMILL POOL
	15 Nov 1991	11:20			WOODMILL POOL
	10 Dec 1991	10:05			WOODMILL POOL

FLOY: 2559 LENGTH: 77 WEIGHT: 12 SEX: M CONDITION: 7/10
RELEASE DATE: 2/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J1/4	2 Jul 1991	9:10			WOODMILL
	16 Jul 1991	7:30			WOODMILL POOL
	23 Jul 1991	14:40			WOODMILL POOL
	30 Jul 1991	8:30			WOODMILL POOL

FLOY: 2897 LENGTH: 69 WEIGHT: 9.8 SEX: M CONDITION: 7110
 RELEASE DATE: 30/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J1/5	30 Jul 1991	7:45			WOODMILL
	6 Aug 1991	13:30			WOODMILL POOL
	14 Aug 1991	11:45			WOODMILL POOL
	20 Aug 1991	13:30			WOODMILL POOL
	27 Aug 1991	10:00			WOODMILL POOL
	2 Sep 1991	10:00			WOODMILL POOL
	4 Sep 1991	10:15			WOODMILL POOL
	16 Sep 1991	15:00			WOODMILL POOL
	23 Sep 1991	11:00			WOODMILL POOL
	1 Oct 1991	12:00			WOODMILL POOL
	4 Oct 1991	0:05	5 Oct 1991	3:05	WOODMILL
	7 Oct 1991	20:35			WOODMILL
	8 Oct 1991	6:15			WOODMILL
	15 Oct 1991	11:30			WOODMILL POOL
	15 Nov 1991	11:20			WOODMILL POOL
	4 Dec 1991	13:45			WOODMILL POOL
	10 Dec 1991	10:05			WOODMILL POOL

FLOY: 2590 LENGTH: 86 WEIGHT: 13 SEX: F CONDITION: 7/10
RELEASE DATE: 16/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J1/6	16 Jul 1991	9:00			WOODMILL

FLOY: 2893 LENGTH: 61 WEIGHT: 6 SEX: F CONDITION: 8 / 10
RELEASE DATE: 30/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J1/8	30 Jul 1991	7:00			WOODMILL
		14:20			WOODMILL
	13 Dec 1991	9:30			WOODMILL POOL

FLOY: 2564 LENGTH: 77 WEIGHT: 12 SEX: M CONDITION: 9/10
RELEASE DATE: 2/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J2/1	2 Jul 1991	9:45			WOODMILL
	9 Jul 1991	15:00			WOODMILL POOL
	16 Jul 1991	7:30			WOODMILL POOL

FLOY: 2593 LENGTH: 62 WEIGHT:
RELEASE DATE: 10/7

SEX: F CONDITION: 6/10

TAG	DATE	TIME	DATE	TIME	LOCATION
J2/3	10 Jul 1991	13:10			REDBRIDGE
	13 Jul 1991	3:40	15 Jul 1991	13:05	TESTWOOD
	15 Jul 1991	13:10			TESTWOOD
		13:13	19 Jul 1991	16:45	TESTWOOD
	19 Jul 1991	13:00			TESTWOOD POOL
	20 Jul 1991	16:25	22 Jul 1991	10:00	TESTWOOD
	22 Jul 1991	20:25	6 Aug 1991	9:35	TESTWOOD
		20:35	6 Aug 1991	9:35	TESTWOOD
	6 Aug 1991	9:54	8 Aug 1991	10:10	TESTWOOD
	8 Aug 1991	13:15			D\ S TESTWOOD POOL
		21:15	14 Aug 1991	10:25	TESTWOOD
	14 Aug 1991	10:00			TESTWOOD POOL
		10:45	15 Aug 1991	7:35	TESTWOOD
	18 Aug 1991	14:35	20 Aug 1991	10:10	TESTWOOD
	20 Aug 1991				TESTWOOD POOL
		10:14	23 Aug 1991	18:15	TESTWOOD
	24 Aug 1991	19:15	25 Aug 1991	8:50	TESTWOOD
	25 Aug 1991	22:30	27 Aug 1991	0:50	TESTWOOD
	28 Aug 1991	10:15			TESTWOOD POOL
		12:40	3 Sep 1991	16:00	TESTWOOD
	3 Sep 1991	15:58	9 Sep 1991		TESTWOOD
	9 Sep 1991	16:12	12 Sep 1991	13:55	TESTWOOD
	12 Sep 1991	14:15	16 Sep 1991	17:25	TESTWOOD
	16 Sep 1991	17:00			TESTWOOD POOL
	17 Sep 1991	12:30	20 Sep 1991	13:00	TESTWOOD
	20 Sep 1991	18:53	22 Sep 1991	11:15	TESTWOOD
	24 Sep 1991	10:00			TESTWOOD POOL
		22:15	29 Sep 1991	18:00	TESTWOOD
			29 Sep 1991	18:00	NURSING MILL POOL
	25 Sep 1991	15:30	25 Sep 1991	19:10	TESTWOOD
	28 Sep 1991	9:50	29 Sep 1991	14:15	TESTWOOD
	10 Oct 1991	2:15	10 Oct 1991	7:10	WILLOW COTTAGE
	12 Nov 1991	12:30			HATCHES HOUSING STREAM D.S.
	13 Nov 1991	0:25	13 Nov 1991	3:45	WILLOW COTTAGE
	8 Jan 1992	10:00			U\ S T.V.T. GREATBRIDGE
	9 Jan 1992	13:00			DUKES HEAD GREATBRIDGE

FLOY: 2879 LENGTH: 62 WEIGHT: 6 SEX: F CONDITION: G10
RELEASE DATE: G18

TAG	DATE	TIME	DATE	TIME	LOCATION
J2/5	6 Aug 1991	13:30			WOODMILL POOL
		14:10			WOODMILL
	14 Aug 1991	11:45			WOODMILL
	20 Aug 1991	13:30			WOODMILL
		23:00	22 Aug 1991	20:25	WOODMILL
	27 Aug 1991	10:00			WOODMILL
	4 Sep 1991	10:00			WOODMILL
	9 Sep 1991	6:05	9 Sep 1991	9:20	GATERS MILL
	27 Sep 1991	4:20	1 Oct 1991	17:50	STANFORD MEADOWS
	2 Oct 1991	13:30			BOUNDARY RUN S.M.
	7 Oct 1991	14:30			BOUNDARY RUN S.M.
	15 Oct 1991	14:20			TOP BEAT BOUNDARY G.M.
	29 Oct 1991	16:00			BOTTOM END BOUNDARY RUN

FLOY: 2577 LENGTH: 67 WEIGHT: 12 SEX: F CONDITION: 8116
 RELEASE DATE: 1617

TAG	DATE	TIME	DATE	TIME	LOCATION
J2/6	16 Jul 1991	9:00			WOODMILL
	18 Jul 1991	19:25			WOODMILL
		22:50	19 Jul 1991	7:00	GATERS MILL
	19 Jul 1991	20:05	20 Jul 1991	21:40	GATERS MILL
	22 Jul 1991	1:45			GATERS MILL
	23 Jul 1991	12:55			GATERS MILL
		19:15	23 Jul 1991	22:10	GATERS MILL
	27 Jul 1991	21:20	30 Jul 1991	20:50	GATERS MILL
	1 Aug 1991	10:05	6 Aug 1991	6:15	GATERS MILL
	7 Aug 1991	5:55	10 Aug 1991	20:45	GATERS MILL
	20 Aug 1991	23:50	21 Aug 1991	0:00	GATERS MILL
	27 Aug 1991	20:55	2 Sep 1991	6:05	GATERS MILL
	2 Sep 1991	20:15	12 Sep 1991	6:05	GATERS MILL
	4 Sep 1991	14:30			HATCH POOL G.M.
	12 Sep 1991	20:25	16 Sep 1991	7:35	GATERS MILL
	16 Sep 1991	19:55	20 Sep 1991	5:35	GATERS MILL
	20 Sep 1991	10:30			HATCH POOL G.M.
		19:55	23 Sep 1991	6:25	GATERS MILL
	23 Sep 1991	19:45	27 Sep 1991	6:45	GATERS MILL
	27 Sep 1991	19:15	30 Sep 1991	12:10	GATERS MILL
	1 Oct 1991	14:00			FOUR HATCHES G.M.
	15 Oct 1991	14:20			FOUR HATCHES G.M.
	30 Oct 1991	0:00	7 Nov 1991	15:20	STANFORD MEADOWS
	7 Nov 1991	17:26	13 Nov 1991	19:30	STANFORD MEADOWS
	14 Nov 1991	13:30			PUMP RUN S.M.
	15 Nov 1991	6:50	15 Nov 1991	6:55	STANFORD MEADOWS
	16 Nov 1991	1:25	16 Nov 1991	7:20	STANFORD MEADOWS
	21 Nov 1991	17:05	25 Nov 1992	21:40	STANFORD MEADOWS
	26 Nov 1991	15:30			PUMP RUN S.M.
		16:45	28 Nov 1991	7:55	STANFORD MEADOWS
	28 Nov 1991	19:45	29 Nov 1991	7:25	STANFORD MEADOWS
	2 Dec 1991	12:30			JUNCTION S.M.
	12 Dec 1991	16:20	12 Dec 1991	16:25	STANFORD MEADOWS
	13 Dec 1991	18:45	13 Dec 1991	18:50	STANFORD MEADOWS

FLOY: 2888 LENGTH: 65 WEIGHT: 7 SEX: F CONDITION: 7/10
 RELEASE DATE: 30/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J2/8	30 Jul 1991	7:00			WOODMILL
	6 Aug 1991	13:30			WOODMILL POOL
		23:45	13 Aug 1991	9:35	WOODMILL
	20 Aug 1991	13:30			WOODMILL
	27 Aug 1991	10:00			WOODMILL POOL
	2 Sep 1991	10:00			WOODMILL POOL
	4 Sep 1991	10:15			WOODMILL
					WOODMILL POOL
	16 Sep 1991	15:00			WOODMILL POOL
	19 Sep 1991	14:10			WOODMILL
	23 Sep 1991	11:00			WOODMILL POOL
	24 Sep 1991	2:55	28 Sep 1991	15:45	WOODMILL
	28 Sep 1991	16:55	28 Sep 1991	21:20	GATERS MILL
	1 Oct 1991	14:00			SWANS NEST G.M.
	15 Oct 1991	14:20			PUMP POOL G.M.
	7 Nov 1991	11:45			PUMP POOL G.M.
	26 Nov 1991	15:30			PUMP RUN S.M.
	2 Dec 1991	12:30			GOOSE NECK S.M.
		16:30	6 Dec 1991	23:25	STANFORD MEADOWS
	24 Dec 1991	22:20	30 Dec 1991	20:55	STANFORD MEADOWS
	30 Dec 1991	13:30			U/S GOOSE NECK S.M.
	3 Jan 1992	6:10	5 Jan 1992	14:40	STANFORD MEADOWS
	7 Jan 1992	11:30			U/S COMMON HATCHES B.S. PLAYING FIELDS
	9 Jan 1992	12:00			J. UNSWORTHS HATCH POOL
	23 Jan 1992	16:15			MILL POOL B.S.
	28 Jan 1992	23:15	28 Feb 1992	23:45	STANFORD MEADOWS
	31 Jan 1992	21:30	1 Feb 1992	12:00	WOODMILL

FLOY: 2880 LENGTH: 64 WEIGHT: 58 SEX: M CONDITION: 9/10
 RELEASE DATE: 6/8

TAG	DATE	TIME	DATE	TIME	LOCATION
J2/9	6 Aug 1991	13:30			WOODMILL
		23:45	13 Aug 1991	9:35	WOODMILL
	14 Aug 1991	18:30	19 Aug 1991	15:00	WOODMILL
	20 Aug 1991	13:30			WOODMILL POOL
		14:45	2 Sep 1991	5:55	WOODMILL
	27 Aug 1991	10:00			WOODMILL
	4 Sep 1991	10:15			WOODMILL POOL
	13 Sep 1991	19:00	16 Sep 1991	2:40	WOODMILL
	16 Sep 1991	15:00			WOODMILL POOL
	21 Sep 1991	23:45	23 Sep 1991	2:15	WOODMILL
	23 Sep 1991	11:00			WOODMILL POOL
	25 Sep 1991	19:40	26 Sep 1991	6:55	GATERS MILL
	1 Oct 1991	14:00			TOP BEAT BOUNDARY G.M.
	15 Oct 1991	14:20			JOAN'S POOL G.M.
	29 Oct 1991	14:55			TOP BEAT BOUNDARY G.M.
	7 Nov 1991	11:45			U\S JOAN'S POOL
	8 Nov 1991	19:20	8 Nov 1991	23:50	STANFORD MEADOWS
	14 Nov 1991	13:30			U\S SCIVIER'S DITCH S.M.
	27 Nov 1991	14:00			RIVER INN PUB B.S.
	2 Dec 1991	12:30			PUMP RUN S.M.
		15:45	6 Dec 1991	23:25	STANFORD MEADOWS
	18 Dec 1991	21:40	18 Dec 1991	21:55	STANFORD MEADOWS
	10 Jan 1992	22:35	10 Jan 1992	22:50	STANFORD MEADOWS
	15 Jan 1992	14:10			TEXACO BRIDGE B.S.
	21 Jan 1992	15:00			MILL POOL B.S.
	23 Jan 1992	16:30			J. UNSWORTHS
	1 Feb 1992				LOWER BISHOPS STOKE FISHERIES.
	1 Mar 1992	18:55	2 Mar 1992	6:30	GATERS MILL

FLOY: 2856 LENGTH: 59 WEIGHT:
RELEASE DATE: 13/8

SEX: F CONDITION: 81.0

TAG	DATE	TIME	DATE	TIME	LOCATION
J3/2	13 Aug 1991	7:15			WOODMILL
	4 Sep 1991	10:15			WOODMILL POOL
		14:30			LOWER PIKE POOL G.M.
	20 Sep 1991	10:30			BROOMFIELDS 3 G.M.
	2 Oct 1991	13:30			GOOSE NECK S.M.
	3 Oct 1991	1:45	6 Oct 1991	10:30	STANFORD MEADOWS
	7 Oct 1991	14:30			PENINSULA POINT S.M.
		18:50	11 Oct 1991	14:05	STANFORD MEADOWS
	12 Oct 1991	9:40	16 Oct 1991	11:06	STANFORD MEADOWS
	29 Oct 1991	14:55			PENINSULA POINT S.M.
		19:25	1 Nov 1991	17:20	STANFORD MEADOWS
	7 Nov 1991	19:40	11 Nov 1991	17:40	STANFORD MEADOWS
	14 Nov 1991	13:30			DRINKING POOL S.M.
	15 Nov 1991	7:15	16 Nov 1991	11:10	STANFORD MEADOWS
	23 Nov 1991	7:45	26 Nov 1991	4:45	STANFORD MEADOWS
	26 Nov 1991	15:30			PENINSULA POINT S.M.
		16:45	30 Nov 1991	8:40	STANFORD MEADOWS
	2 Dec 1991	12:30			PUMP RUN S.M.
	12 Dec 1991	11:52	16 Dec 1991	16:10	STANFORD MEADOWS
	7 Jan 1992	14:30			HIGHBRIDGE
	14 Jan 1992	15:15			HIGHBRIDGE
	21 Jan 1992	15:00			HIGHBRIDGE
	31 Jan 1992	13:30			BRAMBRIDGE UNDER ROAD BRIDGE.
	3 Feb 1992	16:00			U/S BRAMBRIDGE ROAD BRIDGE
	11 Feb 1992	19:45			GATERS MILL
	10 Mar 1992	19:10	12 Mar 1992	17:20	WOODMILL

FLOY: 2862 LENGTH: 63 WEIGHT:
RELEASE DATE: 20/8

SEX: M CONDITION: 8/10

TAG	DATE	TIME	DATE	TIME	LOCATION
J3/3	20 Aug 1991	14:10			WOODMILL
	4 Sep 1991	10:00			WOODMILL
	16 Sep 1991	15:00			WOODMILL POOL
	23 Sep 1991	11:00			WOODMILL
	1 Oct 1991	12:00			WOODMILL
	15 Oct 1991	11:30			WOODMILL
	15 Nov 1991	11:20			WOODMILL
	4 Dec 1991	13:45			WOODMILL
	10 Dec 1991	10:05			WOODMILL

FLOY: 2597 LENGTH: 73 WEIGHT: 11 SEX: M CONDITION: 7/10
RELEASE DATE: 25/6

TAG	DATE	TIME	DATE	TIME	LOCATION
J3/4	25 Jun 1991	16:30			WOODMILL
	2 Jul 1991	9:10			WOODMILL POOL
	3 Jul 1991				WOODMILL POOL
	1 Oct 1991	14:00			PIKE POOL G.M.
	15 Oct 1991	14:20			EVANS 1 G.M.
	14 Nov 1991	13:30			DRINKING POOL S.M.
	27 Nov 1991	14:00			J. UNSWORTHS HATCH POOL

FLOY:2895 LENGTH:63 WEIGHT:68 SEX:F CONDITION:810
 RELEASE DATE: 30/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J3/5	30 Jul 1991	7:00			WOODMILL
	6 Aug 1991	13:30			WOODMILL POOL
	14 Aug 1991	11:45			WOODMILL POOL
	20 Aug 1991	13:30			WOODMILL POOL
	27 Aug 1991	10:00			WOODMILL POOL
	2 Sep 1991	10:00			WOODMILL POOL
	4 Sep 1991	10:15			WOODMILL POOL
	22 Sep 1991	7:35			WOODMILL
	24 Sep 1991	8:05	24 Sep 1991	9:05	WOODMILL
	28 Sep 1991	18:05	28 Sep 1991	23:40	GATERS MILL
	1 Oct 1991	14:00			PUMP POOL G.M.
	15 Oct 1991	14:20			RAILWAY BRIDGE G.M.
	7 Nov 1991	11:45			REEDY BAY G.M.
	24 Dec 1991	3:50	24 Dec 1991	5:20	STANFORD MEADOWS
		14:45	24 Dec 1991	17:30	STANFORD MEADOWS
	7 Jan 1992	14:30			HIGHBRIDGE
	31 Jan 1992	13:30			T.OSMANS HATCH POOL
	3 Feb 1992	16:00			T.OSMANS HATCH POOL
	4 Feb 1992	23:40			OTTERBOURNE

FLOY: 2587 LENGTH: 63 WEIGHT: 7 SEX: F CONDITION: 4|10
RELEASE DATE: 16|7

TAG	DATE	TIME	DATE	TIME	LOCATION
J3/6	16 Jul 1991	9:00			WOODMILL
	23 Jul 1991	14:40			WOODMILL POOL

FLOY: 2897 LENGTH: 81 WEIGHT: 11 SEX: M CONDITION: 6
 RELEASE DATE: 29/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J3/6A	29 Jul 1991				ROMSEY MEMORIAL PARK, SIDE STREAM.
	31 Jul 1991				D\S WILLOW COTTAGE
	2 Aug 1991	18:30			WILLOW COTTAGE
	13 Aug 1991	15:15			D\S WILLOW COTTAGE
	20 Aug 1991	23:05	21 Aug 1991	4:55	WILLOW COTTAGE
	21 Aug 1991	21:10	26 Aug 1991	21:10	WILLOW COTTAGE
	28 Aug 1991	11:45			WILLOW COTTAGE
	29 Aug 1991	2:50			WILLOW COTTAGE
	8 Sep 1991	0:30	8 Sep 1991	5:20	WILLOW COTTAGE
	9 Sep 1991	23:20			WILLOW COTTAGE
	12 Sep 1991	3:15	12 Sep 1991	5:50	WILLOW COTTAGE
		19:55	13 Sep 1991	5:45	WILLOW COTTAGE
	16 Sep 1991	21:25	16 Sep 1991	22:15	WILLOW COTTAGE
	17 Sep 1991	10:25			WILLOW COTTAGE
		22:20	18 Sep 1991	0:50	WILLOW COTTAGE
	25 Sep 1991	11:15			WILLOW COTTAGE
	29 Sep 1991	2:25	10 Oct 1991	10:25	WILLOW COTTAGE
	30 Sep 1991	12:15			WILLOW COTTAGE
	17 Oct 1991	12:05			D\S WILLOW COTTAGE
		21:20	22 Oct 1991	1:55	WILLOW COTTAGE
	25 Oct 1991	10:40	11 Nov 1991	13:00	WILLOW COTTAGE

FLOY: 2876 LENGTH: 58 WEIGHT: SEX: M CONDITION: 8
RELEASE DATE: 20/8

TAG	DATE	TIME	DATE	TIME	LOCATION
J3/9	20 Aug 1991	14:10			WOODMILL
	27 Aug 1991	10:00			WOODMILL POOL
	23 Sep 1991				WOODMILL POOL
		11:00			WOODMILL POOL
	1 Oct 1991	12:00			WOODMILL POOL
	15 Oct 1991	11:30			WOODMILL POOL
					WOODMILL POOL
	15 Nov 1991	11:20			WOODMILL POOL
					WOODMILL POOL
	4 Dec 1991	13:45			WOODMILL POOL
					WOODMILL POOL
	10 Dec 1991	10:05			WOODMILL POOL
					WOODMILL POOL
	15 Jan 1992	16:00			STOKE LOCK B.S.

FLOY: 2558 LENGTH: 61 WEIGHT: 6 SEX: M CONDITION: 6/10
RELEASE DATE: 4/25/6

TAG	DATE	TIME	DATE	TIME	LOCATION
J4/1	25 Jun 1991	15:47			WOODMILL
	2 Jul 1991	9:10			WOODMILL POOL

FLOY: 2570 LENGTH: 74 WEIGHT: 9 SEX: F CONDITION: 81.0
RELEASE DATE: 18 14

TAG	DATE	TIME	DATE	TIME	LOCATION
J4/2	18 Jun 1991	9:40			WOODMILL
	20 Jun 1991				WOODMILL POOL
	25 Jun 1991	15:15			WOODMILL POOL
	29 Jun 1991	7:20		8:00	WOODMILL
	3 Jul 1991	0:40	3 Jul 1991	4:20	GATERS MILL
	21 Jul 1991	13:30			LOWER ROUND THE BEND G.M.
		13:35	21 Jul 1991	19:40	GATERS MILL
	24 Jul 1991	8:35	31 Jul 1991	11:37	GATERS MILL
	30 Jul 1991	8:30			WOODMILL POOL

FLOY: 2881 LENGTH: 61 WEIGHT: 5.8 SEX: M CONDITION: 8
RELEASE DATE: 618

TAG	DATE	TIME	DATE	TIME	LOCATION
J4/2A	6 Aug 1991	13:30			WOODMILL
	27 Aug 1991	10:00			WOODMILL POOL
	4 Sep 1991	10:15			WOODMILL POOL
	16 Sep 1991	15:00			WOODMILL POOL
	23 Sep 1991				WOODMILL POOL
	1 Oct 1991	12:00			WOODMILL POOL
	15 Oct 1991	11:30			WOODMILL POOL

FLOY: 2583 LENGTH: 67 WEIGHT: 7 SEX: F CONDITION: 6110
RELEASE DATE: 2317

TAG	DATE	TIME	DATE	TIME	LOCATION
J4/5	23 Jul 1991	14:40			WOODMILL
	14 Aug 1991	11:45			WOODMILL POOL
	20 Aug 1991	13:30			WOODMILL POOL
	8 Oct 1991	12:30			3RD BEND U/S WOODMILL
	19 Oct 1991	2:55	19 Oct 1991	6:50	WOODMILL
	21 Oct 1991	5:15	21 Oct 1991	6:35	WOODMILL
	30 Oct 1991	1:00	30 Oct 1991	14:10	GATERS MILL
	1 Nov 1991	11:55	3 Nov 1991	14:10	STANFORD MEADOWS
	8 Nov 1991	6:50	8 Nov 1991	7:05	STANFORD MEADOWS
	9 Nov 1991	6:50	9 Nov 1991	16:30	STANFORD MEADOWS
	10 Nov 1991	6:40	10 Nov 1991	8:55	STANFORD MEADOWS
		16:15	13 Nov 1991	12:05	STANFORD MEADOWS
	14 Nov 1991	13:30			PENINSULA POINT S.M.
		17:10	16 Nov 1991	11:25	STANFORD MEADOWS
	21 Nov 1991	16:45	21 Nov 1991	20:10	STANFORD MEADOWS
	22 Nov 1991	7:10	23 Nov 1991	8:35	STANFORD MEADOWS
	24 Nov 1991	5:45		7:20	STANFORD MEADOWS
		16:30	26 Nov 1991	12:00	STANFORD MEADOWS
	26 Nov 1991	15:30			PENINSULA POINT S.M.
		16:40	27 Nov 1991	8:20	STANFORD MEADOWS
	27 Nov 1991	16:35	27 Nov 1991	17:40	STANFORD MEADOWS
	28 Nov 1991	16:30	28 Nov 1991	17:05	STANFORD MEADOWS
	29 Nov 1991	23:40	29 Nov 1991	23:55	STANFORD MEADOWS
	2 Dec 1991	12:30			NORTH PENINSULA S.M.
		12:44	2 Dec 1991	18:30	STANFORD MEADOWS
	3 Dec 1991	5:50	3 Dec 1991	7:25	STANFORD MEADOWS
		16:25	3 Dec 1991	21:05	STANFORD MEADOWS
	4 Dec 1991	7:25	5 Dec 1991	16:15	STANFORD MEADOWS
	12 Dec 1991	11:53	16 Dec 1991	16:30	STANFORD MEADOWS
	19 Dec 1991	10:15	21 Dec 1991	19:05	STANFORD MEADOWS
	24 Dec 1991	1:10	24 Dec 1991	15:35	STANFORD MEADOWS
	25 Dec 1991	7:00	26 Dec 1991	18:15	STANFORD MEADOWS
	27 Dec 1991	7:55	27 Dec 1991	16:05	STANFORD MEADOWS
	28 Dec 1991	2:55	30 Dec 1991	12:50	STANFORD MEADOWS
	30 Dec 1991	13:30			IRON BRIDGE POOL L.B.S.
	30 Jan 1992	22:50	31 Jan 1992	11:40	T.OSMANS HATCH POOL
	31 Jan 1992	13:30			KILN LANE T.OSMANS BRIDGE
		18:35	1 Feb 1992	22:55	T.OSMANS HATCH POOL
	10 Feb 1992	23:35	11 Feb 1992	11:20	STANFORD MEADOWS

FLOY: 2575 LENGTH: 79 WEIGHT: 9 SEX: F CONDITION: 710
RELEASE DATE: 917

TAG	DATE	TIME	DATE	TIME	LOCATION
J4/6	9 Jul 1991	15:00			WOODMILL WOODMILL

FLOY: 2882 LENGTH: 62 WEIGHT: 5 SEX: F CONDITION: 7110
RELEASE DATE: 618

TAG	DATE	TIME	DATE	TIME	LOCATION
J4/8	6 Aug 1991	13:30			WOODMILL
		22:20	13 Aug 1991	9:20	WOODMILL
	11 Aug 1991				D\ S WOODMILL POOL

FLOY: 2859 LENGTH: 67 WEIGHT: SEX: M CONDITION: 8110
RELEASE DATE: 13/8

TAG	DATE	TIME	DATE	TIME	LOCATION
J4/8A	13 Aug 1991	7:15			WOODMILL
	14 Aug 1991	19:55	14 Aug 1991	21:20	WOODMILL
	27 Aug 1991	10:00			WOODMILL
	20 Sep 1991	10:30			UPPER PIKE POOL G.M.
	15 Oct 1991	14:20			BROOMFIELDS 1 G.M.
	7 Nov 1991	11:45			BROOMFIELDS 1 G.M.
	27 Nov 1991	11:20			BROOMFIELDS 1 G.M.
	15 Jan 1992	10:45			BROOMFIELDS 1 G.M.

FLOY: 2594 LENGTH: 76 WEIGHT: 8.8 SEX: F CONDITION: 51.0
RELEASE DATE: 917

TAG	DATE	TIME	DATE	TIME	LOCATION
J5/6	9 Jul 1991	15:10	10 Jul 1991	1:35	WOODMILL
		15:35			WOODMILL
	12 Jul 1991	11:40	14 Jul 1991	7:35	WOODMILL

FLOY: 2884 LENGTH: 60 WEIGHT: 5.8 SEX: F CONDITION: 8110
RELEASE DATE: 6/8

TAG	DATE	TIME	DATE	TIME	LOCATION
J5/8	6 Aug 1991	13:30			WOODMILL
	20 Sep 1991	10:30			HATCH POOL G.M.

FLOY: LENGTH: WEIGHT: SEX: CONDITION:
 RELEASE DATE:

TAG	DATE	TIME	DATE	TIME	LOCATION
J6/2	4 Jun 1991	11:10	9 Jun 1991	5:05	WOODMILL
	17 Jun 1991	9:00			WOODMILL POOL
	19 Jun 1991	21:55	29 Jun 1991	2:25	WOODMILL
	20 Jun 1991				WOODMILL POOL
	25 Jun 1991	15:15			WOODMILL POOL
	3 Jul 1991				WOODMILL POOL
	5 Jul 1991				TESTWOOD POOL
	9 Jul 1991	15:00			WOODMILL POOL
	30 Jul 1991	8:30			WOODMILL POOL
	6 Aug 1991	13:30			WOODMILL POOL
	28 Aug 1991	10:15			TESTWOOD POOL
		14:05	28 Aug 1991	14:55	TESTWOOD
	2 Sep 1991	10:00			WOODMILL POOL
	21 Sep 1991	6:40	21 Sep 1991	6:45	TESTWOOD
	22 Sep 1991	8:35	22 Sep 1991	8:30	TESTWOOD
		12:30	23 Sep 1991	23:00	TESTWOOD

FLOY: 2578LENGTH: 69 WEIGHT: 11 SEX: M CONDITION: 9/10
RELEASE DATE: 16/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J6/3	16 Jul 1991	10:05			WOODMILL
	20 Aug 1991	13:30			WOODMILL POOL
	27 Aug 1991	10:00			WOODMILL POOL
	4 Sep 1991	14:30			REEDY BAY G.M.
	15 Oct 1991	14:20			REEDY BAY G.M.
	7 Nov 1991	11:45			REEDY BAY G.M.
	27 Nov 1991	11:20			RAILWAY BRIDGE G.M.

FLOY: 2830 LENGTH: 81 WEIGHT: 13 SEX: M CONDITION: G10
RELEASE DATE: 29/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J6/5	29 Jul 1991				ROMSEY MEMORIAL PARK, SIDE STREAM.
	31 Jul 1991				D\ S WILLOW COTTAGE
	3 Aug 1991	21:25	5 Aug 1991	16:50	WILLOW COTTAGE
	5 Aug 1991	17:24	5 Aug 1991	21:25	WILLOW COTTAGE
	13 Aug 1991	15:15			D\ S WILLOW COTTAGE
	28 Aug 1991	11:45			WILLOW COTTAGE
	2 Sep 1991	8:40			WILLOW COTTAGE
	17 Sep 1991	10:25			WILLOW COTTAGE
	25 Sep 1991	11:15			WILLOW COTTAGE
	30 Sep 1991	12:15			WILLOW COTTAGE
	17 Oct 1991	12:05			D\ S WILLOW COTTAGE
	3 Nov 1991	7:20	12 Nov 1991	8:45	WILLOW COTTAGE
	12 Nov 1991	11:30			WILLOW COTTAGE
	20 Nov 1991	14:25			WILLOW COTTAGE
	3 Dec 1991	11:15			U\ S WILLOW COTTAGE
	27 Dec 1991	15:00			D\ S WILLOW COTTAGE
	3 Jan 1992	16:30			D\ S PENINSULA POINT S.M.
	14 Jan 1992	11:15			D\ S WILLOW COTTAGE
	10 Feb 1992	13:40			D\ S WILLOW COTTAGE

FLOY: 2588 LENGTH: 57 WEIGHT: 5 SEX: F CONDITION: 7/10
RELEASE DATE: 10/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J6/6	16 Jul 1991	9:00			WOODMILL
	20 Aug 1991				TESTWOOD POOL

FLOY: 2892 LENGTH: 63 WEIGHT: 6.8 SEX: F CONDITION: 7/10
 RELEASE DATE: 30/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J6/8	30 Jul 1991	7:00			WOODMILL
	9 Aug 1991	23:15	10 Aug 1991	5:45	TESTWOOD
	10 Aug 1991	23:15	10 Aug 1991	5:30	TESTWOOD
	11 Aug 1991	22:50	12 Aug 1991	5:05	TESTWOOD
	24 Aug 1991	15:25	24 Aug 1991	15:30	TESTWOOD
	10 Sep 1991	4:50	10 Sep 1991	5:00	TESTWOOD
	12 Sep 1991	3:20	12 Sep 1991	14:07	TESTWOOD
	16 Sep 1991	17:00			TESTWOOD POOL
	24 Sep 1991	10:00			TESTWOOD POOL
	25 Sep 1991	18:15	26 Sep 1991	4:55	TESTWOOD
	27 Sep 1991	5:45	27 Sep 1991	6:25	TESTWOOD
		19:10			TESTWOOD
	28 Sep 1991	19:55	29 Sep 1991	1:05	NURSING MILL POOL
	29 Sep 1991	1:25			NURSING LOCK HATCHES
		6:25	10 Oct 1991	6:25	WILLOW COTTAGE
	30 Sep 1991	2:30			BROADLANDS
	5 Oct 1991	20:35			NURSING LOCK HATCHES
	9 Oct 1991	20:55			BROADLANDS
	11 Oct 1991	1:00	12 Oct 1991	2:30	NURSING LOCK HATCHES
	19 Oct 1991	19:30	20 Oct 1991	4:05	NURSING LOCK HATCHES
	24 Oct 1991	0:45	24 Oct 1991	9:10	NURSING LOCK HATCHES
		15:10	24 Oct 1991	18:30	NURSING LOCK HATCHES
	30 Oct 1991	22:00	31 Oct 1991	1:35	NURSING LOCK HATCHES
			31 Oct 1991	1:35	NURSING LOCK HATCHES
	1 Nov 1991	6:35	1 Nov 1991	6:55	NURSING MILL POOL
		7:35	1 Nov 1991	10:45	TESTWOOD
	2 Nov 1991	13:05	2 Nov 1991	13:15	NURSING MILL POOL
		18:55	2 Nov 1991	9:00	TESTWOOD
	4 Nov 1991	18:50			NURSING MILL POOL
	11 Nov 1991	6:10	12 Nov 1991	8:45	WILLOW COTTAGE
	12 Nov 1991	11:30			WILLOW COTTAGE
		16:15	12 Nov 1991	18:10	WILLOW COTTAGE

FLOY: 2864 LENGTH: 65 WEIGHT:
RELEASE DATE: 20/8

SEX: M CONDITION: 9/10

TAG	DATE	TIME	DATE	TIME	LOCATION
J6/9	20 Aug 1991	14:10			WOODMILL
	22 Aug 1991	4:25	28 Aug 1991	9:50	WOODMILL
	27 Aug 1991	10:00			WOODMILL POOL
	28 Aug 1991	21:10	28 Aug 1991	23:35	GATERS MILL
	4 Sep 1991	14:30			LEANING TREE G.M.
	20 Sep 1991	10:30			KINGFISHER G.M.
	1 Oct 1991	14:00			KINGFISHER G.M.
	15 Oct 1991	14:20			WARDS POOL G.M.
	29 Oct 1991	14:55			PENINSULA POINT S.M.
		18:05	7 Nov 1991	17:20	STANFORD MEADOWS
	7 Nov 1991	17:27	14 Nov 1991	14:25	STANFORD MEADOWS
	14 Nov 1991	13:30			PENINSULA POINT S.M.
		14:35	16 Nov 1991	11:11	STANFORD MEADOWS
	21 Nov 1991	15:50	24 Nov 1991	20:41	STANFORD MEADOWS
	26 Nov 1991	20:00	30 Nov 1991	8:40	STANFORD MEADOWS
	2 Dec 1991	12:30			TOP BEAT BOUNDARY G.M.
		22:45	4 Dec 1991	0:00	STANFORD MEADOWS
	23 Dec 1991	12:00			STOKE LOCK B.S.
	24 Dec 1991	2:10	27 Dec 1991	18:00	STANFORD MEADOWS
	30 Dec 1991	13:30			MERCEDES BARTON CH.
	6 Jan 1992	15:00			U\S MERCEDES BARTON CH.
	14 Jan 1992	15:15			HIGHBRIDGE
	15 Jan 1992	2:45	30 Jan 1992	10:00	T.OSMANS HATCH POOL
	21 Jan 1992	15:00			KILN LANE T.OSMANS BRIDGE
	31 Jan 1992	13:30			D\S BARTON WEIR
		15:30	2 Feb 1992	1:40	STANFORD MEADOWS
	3 Feb 1992	21:25	4 Feb 1992	11:25	WOODMILL

FLOY: 2592 LENGTH: 76 WEIGHT: 14 SEX: F CONDITION: 7/10
 RELEASE DATE: 18/6

TAG	DATE	TIME	DATE	TIME	LOCATION
J7/1	18 Jun 1991	10:35			WOODMILL
	20 Jun 1991				WOODMILL POOL
	2 Jul 1991	9:10			WOODMILL POOL
	3 Jul 1991				WOODMILL POOL
	9 Jul 1991	15:00			WOODMILL POOL
	16 Jul 1991	7:30			WOODMILL
	30 Jul 1991	8:30			WOODMILL POOL
	14 Aug 1991	11:45			WOODMILL POOL
	20 Aug 1991	13:30			WOODMILL POOL
	2 Sep 1991	10:00			WOODMILL POOL
	16 Sep 1991	15:00			WOODMILL POOL
	1 Oct 1991	12:00			WOODMILL POOL
	15 Oct 1991	11:30			WOODMILL POOL
	1 Nov 1991	10:00			WOODMILL
		12:05	3 Nov 1991	18:35	GATERS MILL
	15 Nov 1991	12:30			WHITE SWAN (MANS BRIDGE)
	19 Nov 1991	12:50	19 Nov 1991	18:50	GATERS MILL
	26 Nov 1991	2:30	26 Nov 1991	5:25	GATERS MILL
	27 Nov 1991	11:20			TOP BEAT BOUNDARY G.M.
	17 Dec 1991	14:45	20 Dec 1991	7:46	STANFORD MEADOWS
	22 Dec 1991	7:10	23 Dec 1991	14:22	STANFORD MEADOWS
	23 Dec 1991	14:28	28 Dec 1991	17:11	STANFORD MEADOWS
	30 Dec 1991	13:30	30 Dec 1991	18:40	STANFORD MEADOWS
					PENINSULA POINT S.M.
	31 Dec 1991	8:50	1 Jan 1992	20:50	STANFORD MEADOWS
	2 Jan 1992	7:55	2 Jan 1992	18:20	STANFORD MEADOWS
	4 Jan 1992	17:55			STANFORD MEADOWS
	9 Jan 1992	12:00			FOOTBRIDGE D/S BARTON WEIR
	13 Jan 1992	15:00			FOOTBRIDGE D/S BARTON WEIR
	15 Jan 1992	13:20			FOOTBRIDGE D/S BARTON WEIR
	21 Jan 1992	15:00			RIVER INN PUB B.S.
	26 Jan 1992	17:45	28 Jan 1992	10:20	STANFORD MEADOWS

FLOY: 2565 LENGTH: 93 WEIGHT: 18 SEX: M CONDITION: 8/10
RELEASE DATE: 11/6

TAG	DATE	TIME	DATE	TIME	LOCATION
J7/2	11 Jun 1991	15:45			WOODMILL
	14 Jun 1991	14:45			WOODMILL POOL
	17 Jun 1991	9:00			WOODMILL POOL
	18 Jun 1991	8:45			WOODMILL POOL
	20 Jun 1991				WOODMILL POOL
		22:15	21 Jun 1991	8:55	GATERS MILL
	23 Jun 1991	15:00			GATERS MILL
		15:30	23 Jun 1991	17:35	GATERS MILL

FLOY: 2591 LENGTH: 86 WEIGHT: 16 SEX: M CONDITION: 8
 RELEASE DATE: 16/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J7/2A	16 Jul 1991	9:00	16 Jul 1991	9:10	WOODMILL
					WOODMILL
	23 Jul 1991	14:40			WOODMILL POOL
	28 Jul 1991	15:48			GATERS MILL
	30 Jul 1991	8:30			WOODMILL POOL
	6 Aug 1991	13:30			WOODMILL POOL
	13 Aug 1991	0:50			NURSLING SEA POOL
	14 Aug 1991	10:50			U\S SEA POOL SC.
	21 Aug 1991	4:25			NURSLING SEA POOL
	26 Aug 1991	0:50			NURSLING SEA POOL
	27 Aug 1991	2:25			NURSLING SEA POOL
	1 Sep 1991	2:35			NURSLING SEA POOL
	5 Sep 1991	0:01			NURSLING SEA POOL
	6 Sep 1991	0:40			NURSLING SEA POOL
		0:50	9 Sep 1991	20:45	NURSLING SEA POOL
	11 Sep 1991	19:00	11 Sep 1991	19:05	NURSLING SEA POOL
	27 Sep 1991	2:45			NURSLING SEA POOL
	2 Oct 1991	1:50	2 Oct 1991	1:55	NURSLING SEA POOL
		12:00			D\S SEA BRIDGE NURSLING
	29 Oct 1991	12:00			SEA POOL NURSLING
	2 Dec 1991	10:35	3 Dec 1991	8:50	BROADLANDS
	5 Dec 1991	20:50	6 Dec 1991	1:45	BROADLANDS
	14 Dec 1991	7:25			NURSLING LOCK HATCHES

FLOY: 2599 LENGTH: 82 WEIGHT: 14- SEX: M CONDITION: 8
RELEASE DATE: 25/6

TAG	DATE	TIME	DATE	TIME	LOCATION
37/4	25 Jun 1991	15:47			WOODMILL
	29 Jun 1991	5:15			WOODMILL
		20:10	29 Jun 1991	20:15	STANFORD MEADOWS
	4 Sep 1991	14:30			LOWER ROUND THE BEND G.M.
	20 Sep 1991	10:30			GATE POOL G.M.
	1 Oct 1991	14:00			GATE POOL G.M.
	15 Oct 1991	14:20			LOWER ROUND THE BEND G.M.
	7 Nov 1991	11:45			THORN BUSH G.M.
	27 Nov 1991	11:20			GATE POOL G.M.
	15 Jan 1992	10:45			WARTHS POOL G.M.

FLOY: 2586 LENGTH: 83 WEIGHT: 12 SEX: M CONDITION: 7710
RELEASE DATE:

TAG	DATE	TIME	DATE	TIME	LOCATION
J7/5	23 Jul 1991	14:40			WOODMILL
	6 Aug 1991	13:30			WOODMILL POOL
	4 Sep 1991	10:15			WOODMILL POOL
	16 Sep 1991	15:00			WOODMILL POOL
	24 Oct 1991	11:30			WOODMILL POOL
	28 Oct 1991	19:25			WOODMILL
		23:00	29 Oct 1991	1:40	GATERS MILL
	7 Nov 1991	11:45			WILLOW TREE G.M.
	21 Nov 1991	15:50	23 Nov 1991	8:46	STANFORD MEADOWS
	24 Nov 1991	17:06	26 Nov 1991	13:05	STANFORD MEADOWS
	26 Nov 1991	15:30			PENINSULA POINT S.M.
		16:30	26 Nov 1991	20:06	STANFORD MEADOWS
	2 Dec 1991	12:30			PUMP RUN S.M.
	30 Dec 1991	13:30			D\S RIVER INN PUB B.S.

FLOY: 2576 LENGTH: 66 WEIGHT: 6 SEX: F CONDITION: 8 | 10
RELEASE DATE: 9 | 7

TAG	DATE	TIME	DATE	TIME	LOCATION
J7/6	9 Jul 1991	15:35			WOODMILL
	4 Aug 1991	19:30			DAVE STEUARTS

FLOY: 2584 LENGTH: 64 WEIGHT: 68 SEX: F CONDITION: 7/10
RELEASE DATE: 23/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J7/6A	23 Jul 1991	14:40			WOODMILL
	30 Jul 1991	8:30			WOODMILL POOL
		10:21	30 Jul 1991	11:40	WOODMILL
	22 Aug 1991				WOODMILL

FLOY: - LENGTH: 61 WEIGHT: 5 SEX: 1- CONDITION: 4-
RELEASE DATE: 518

TAG	DATE	TIME	DATE	TIME	LOCATION
J7/6B	5 Aug 1991				D/S TURBINES DAVE STEUARTS

FLOY: 2854 LENGTH: 62 WEIGHT: 5.8 SEX: F CONDITION: 6/10
RELEASE DATE: 6/8

TAG	DATE	TIME	DATE	TIME	LOCATION
J7/6C	6 Aug 1991	13:30			WOODMILL

FLOY: 2886 LENGTH: 64 WEIGHT: SEX: M CONDITION: 6
RELEASE DATE: 218

TAG	DATE	TIME	DATE	TIME	LOCATION
J7/8	2 Aug 1991				REDBRIDGE
	13 Oct 1991	23:35	14 Oct 1991	8:16	STANFORD MEADOWS

FLOY: 2567 LENGTH: 65 WEIGHT:
RELEASE DATE: 1016

SEX: F CONDITION: S 110

TAG	DATE	TIME	DATE	TIME	LOCATION
J8/1	10 Jun 1991				REDBRIDGE
	7 Jul 1991	3:40	7 Jul 1991	12:45	WILLOW COTTAGE
	8 Jul 1991	21:55			NURSING LOCK HATCHES
					NURSING LOCK HATCHES
	2 Aug 1991	18:30			WILLOW COTTAGE
	7 Aug 1991				NURSING GATE BRIDGE
	14 Aug 1991	10:50			U\S COTTAGE HOLE
	21 Aug 1991				D\S GATE BRIDGE
	5 Sep 1991	16:15			U\S COTTAGE HOLE
	8 Oct 1991	12:00			U\S COTTAGE HOLE
	15 Nov 1991	14:30			WITBY BAY NURSING
	3 Dec 1991	13:00			WITBY BAY NURSING
	14 Jan 1992	10:45			WITBY BAY NURSING

FLOY: 2571 LENGTH: 74 WEIGHT: 10 SEX: F CONDITION: 710
 RELEASE DATE: 1816

TAG	DATE	TIME	DATE	TIME	LOCATION
J8/2	18 Jun 1991	9:40			WOODMILL
	20 Jun 1991				WOODMILL POOL
	22 Jun 1991	21:25			WOODMILL
	25 Jun 1991	15:15			WOODMILL POOL
	29 Jun 1991	3:30	29 Jun 1991	8:01	WOODMILL
	30 Jun 1991		5 Jul 1991		STANFORD MEADOWS
	3 Jul 1991	0:15			GATERS MILL
		5:22	3 Jul 1991	16:30	STANFORD MEADOWS
	8 Jul 1991	16:30			STANFORD MEADOWS P.P.
	16 Jul 1991	13:01	19 Jul 1991	14:47	STANFORD MEADOWS
	19 Jul 1991	14:52	29 Jul 1991	4:40	STANFORD MEADOWS
	2 Aug 1991	14:05	14 Aug 1991	12:50	STANFORD MEADOWS
		14:10			STANFORD MEADOWS P.P.
	15 Aug 1991	2:20	19 Aug 1991	13:30	STANFORD MEADOWS
	19 Aug 1991	13:33	23 Aug 1991	0:25	STANFORD MEADOWS
	25 Sep 1991	15:30			OAK TREE POOL S.M.
	2 Oct 1991	13:30			OAK TREE POOL S.M.
	7 Oct 1991	14:30			SCIVERS DITCH S.M.
	29 Oct 1991	14:55			D\S SCIVERS DITCH S.M.
	14 Nov 1991	13:30			SCIVERS DITCH S.M.
	26 Nov 1991	15:30			U\S PUMP RUN S.M.
	2 Dec 1991	12:30			DRINKING POOL S.M.
	30 Dec 1991	13:30			D\S RIVER INN PUB B.S.
	6 Jan 1992	15:00			D\S RIVER INN PUB B.S.
	15 Jan 1992	10:45			PUMP RUN S.M.

FLOY: 2855 LENGTH: 66 WEIGHT: 6 SEX: F CONDITION: 9/10
RELEASE DATE: 618

TAG	DATE	TIME	DATE	TIME	LOCATION
J8/4	6 Aug 1991	13:30			WOODMILL
	13 Aug 1991	15:30	13 Aug 1991	21:20	WOODMILL
	4 Sep 1991	14:30			FOUR HATCHES G.M.
	20 Sep 1991	10:30			FOUR HATCHES G.M.
	1 Oct 1991	14:00			FOUR HATCHES G.M.
	7 Nov 1991	11:45			REEDY BAY G.M.
	18 Dec 1991	20:20			OTTERBOURNE
	13 Feb 1992	17:00			MILL POOL SHAWFORD
	27 Feb 1992	18:55	27 Feb 1992	23:50	OTTERBOURNE

FLOY: 2581 LENGTH: 68 WEIGHT: 7 SEX: F CONDITION: 7110
 RELEASE DATE: 23/17

TAG	DATE	TIME	DATE	TIME	LOCATION
J8/5	23 Jul 1991	14:40			WOODMILL
	30 Jul 1991	8:30			WOODMILL POOL
	6 Aug 1991	13:30			WOODMILL POOL
	14 Aug 1991	11:45			WOODMILL POOL
	20 Aug 1991	13:30			WOODMILL POOL
	27 Aug 1991	10:00			WOODMILL POOL
	2 Sep 1991	10:00			WOODMILL POOL
	4 Sep 1991	10:15			WOODMILL POOL
	16 Sep 1991	15:00			WOODMILL POOL
	23 Sep 1991				WOODMILL POOL
	25 Sep 1991	10:20	25 Sep 1991	20:25	WOODMILL
		22:46	26 Sep 1991	2:30	GATERS MILL
	26 Sep 1991	21:45	30 Sep 1991	7:51	STANFORD MEADOWS
	1 Oct 1991	14:00			TOP BEAT BOUNDARY G.M.
	2 Oct 1991	13:30			BOUNDARY RUN S.M.
	15 Oct 1991	14:20			PUMP POOL G.M.
	7 Nov 1991	11:45			PUMP POOL G.M.
	27 Nov 1991	11:20			HOWARDS RUN G.M.
	17 Dec 1991	12:43	19 Dec 1991	14:05	STANFORD MEADOWS
	21 Dec 1991	8:01	22 Dec 1991	22:35	STANFORD MEADOWS
	23 Dec 1991	12:30			J.UNSWORTHS CH.
	30 Dec 1991	13:30			D\S RIVER INN PUB B.S.
	3 Jan 1992	16:30			D\S RIVER INN PUB B.S.
	9 Jan 1992	12:00			J.UNSWORTHS CH.
	13 Jan 1992	15:00			J.UNSWORTHS HATCH POOL
	15 Jan 1992	13:20			J.UNSWORTHS HATCH POOL
		13:35	19 Jan 1992	19:05	STANFORD MEADOWS
			19 Jan 1992	19:05	STANFORD MEADOWS
	20 Jan 1992	17:40	20 Feb 1992	18:35	STANFORD MEADOWS
	23 Jan 1992	0:40	23 Feb 1992	9:40	STANFORD MEADOWS
	20 Feb 1992	17:40	20 Feb 1992	18:55	STANFORD MEADOWS
	23 Feb 1992	0:40	23 Feb 1992	9:40	STANFORD MEADOWS

FLOY: 2582 LENGTH: 65 WEIGHT: 6.8 SEX: F CONDITION: 7110
 RELEASE DATE: 23/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J8/6	23 Jul 1991	14:40			WOODMILL
	24 Jul 1991	3:15			WOODMILL
	30 Jul 1991	1:20	30 Jul 1991	8:46	WOODMILL
		5:15			GATERS MILL
	7 Oct 1991	14:30			OAK TREE POOL S.M.
	29 Oct 1991	14:55			OAK TREE POOL S.M.
	14 Nov 1991	13:30			OAK TREE POOL S.M.
	27 Nov 1991	14:00			J. UNSWORTHS FISH PASS
	2 Dec 1991	12:30			JUNCTION S.M.
	30 Dec 1991	13:30			MERCEDES BARTON CH.
	9 Jan 1992	12:00			BARTON WEIR
	15 Jan 1992	10:45			OAK TREE POOL S.M.
	21 Jan 1992	15:00			RIVER INN PUB B.S.
	25 Jan 1992	0:01	25 Jan 1992	15:40	STANFORD MEADOWS

FLOY: 2889 LENGTH: 62 WEIGHT: 6 SEX: M CONDITION: S110
 RELEASE DATE: 3017

TAG	DATE	TIME	DATE	TIME	LOCATION
J8/8	30 Jul 1991	7:00			WOODMILL
	7 Aug 1991	2:10	7 Aug 1991	2:30	WOODMILL
	13 Oct 1991	22:35	16 Oct 1991	11:06	STANFORD MEADOWS
	29 Oct 1991	14:55			PENINSULA POINT S.M.
		17:30	9 Nov 1991	17:22	STANFORD MEADOWS
	7 Nov 1991	17:27	14 Nov 1991	13:10	STANFORD MEADOWS
	14 Nov 1991	13:30			PENINSULA POINT S.M.
		14:30	16 Nov 1991	11:01	STANFORD MEADOWS
	21 Nov 1991	15:50	26 Nov 1991	15:40	STANFORD MEADOWS
	26 Nov 1991	15:30			PENINSULA POINT S.M.
		15:47	30 Nov 1991	8:41	STANFORD MEADOWS
	27 Nov 1991	11:20			TOP BEAT BOUNDARY G.M.
	2 Dec 1991	12:30			PENINSULA POINT S.M.
		13:15	5 Dec 1991	20:11	STANFORD MEADOWS
	12 Dec 1991	11:53	17 Dec 1992	6:35	STANFORD MEADOWS
	30 Dec 1991	13:30			NORTH PENINSULA S.M.
	6 Jan 1992	15:00			OAK TREE POOL S.M.
	9 Jan 1992	12:00			MERCEDES BARTON CH.
	13 Jan 1992	15:00			RIVER INN PUB B.S.
	15 Jan 1992	13:20			J.UNSWORTHS HATCH POOL
	21 Jan 1992	15:00			J.UNSWORTHS HATCH POOL
	23 Jan 1992	16:15			TEXACO BRIDGE B.S.
	31 Jan 1992	13:30			D\S RIVER INN PUB B.S.

FLOY: 2858 LENGTH: 75 WEIGHT:
RELEASE DATE: 1318

SEX: M CONDITION: 8 | 10

TAG	DATE	TIME	DATE	TIME	LOCATION
J8/9	13 Aug 1991	7:15			WOODMILL
	14 Aug 1991	20:45			WOODMILL
	18 Aug 1991	1:40			WOODMILL
	22 Aug 1991	22:20	22 Aug 1991	22:25	WOODMILL
	4 Sep 1991	14:30			WARDS POOL G.M.
	20 Sep 1991	10:30			WARDS POOL G.M.
	1 Oct 1991	14:00			WARDS POOL G.M.
	23 Dec 1991	19:25	23 Dec 1991	19:51	STANFORD MEADOWS
	26 Dec 1991	1:31	30 Dec 1991	10:50	STANFORD MEADOWS
	30 Dec 1991	13:30	6 Jan 1992	8:05	STANFORD MEADOWS
	6 Jan 1992	13:20	13 Jan 1992	18:40	STANFORD MEADOWS
	6 Feb 1992	16:50			T.OSMANS HATCH POOL

FLOY: 2598 LENGTH: 72 WEIGHT: 12 SEX: M CONDITION: 9/10
RELEASE DATE: 25/6

TAG	DATE	TIME	DATE	TIME	LOCATION
J9/3	25 Jun 1991	16:10			WOODMILL
	28 Jun 1991	2:35			GATERS MILL
	4 Sep 1991	14:30			LITTLE HORSE SHOE G.M.
	20 Sep 1991	10:30			LITTLE HORSE SHOE G.M.
	1 Oct 1991	14:00			LITTLE HORSE SHOE G.M.
	15 Oct 1991	14:20			LITTLE HORSE SHOE G.M.

FLOY: 2579 LENGTH: 65 WEIGHT: 6 SEX: M CONDITION: 8110
RELEASE DATE: 23/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J9/4	23 Jul 1991	14:40			WOODMILL
		15:20			WOODMILL

FLOY: 2580 LENGTH: 57 WEIGHT: 4.8 SEX: F CONDITION: 71.0
 RELEASE DATE: 23/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J9/5	23 Jul 1991	14:40			WOODMILL
	30 Jul 1991	8:30			WOODMILL POOL
	6 Aug 1991	13:30			WOODMILL POOL
	14 Aug 1991	11:45			WOODMILL POOL
	27 Aug 1991	10:00			WOODMILL POOL
	2 Sep 1991	10:00			WOODMILL POOL
	4 Sep 1991	10:15			WOODMILL POOL
	28 Sep 1991	20:55	29 Sep 1991	5:50	GATERS MILL
	1 Oct 1991	14:00			BROOMFIELDS 1 G.M.
	15 Oct 1991	14:20			UNIVERSITY STRAIGHT G.M.
	7 Jan 1992	14:30			HIGHBRIDGE
	14 Jan 1992	15:45			T.OSMANS WEIR
	21 Jan 1992	15:00			T.OSMANS HATCH POOL
	31 Jan 1992	13:30			KILN LANE T.OSMANS BRIDGE
	3 Feb 1992	16:00			KILN LANE T.OSMANS BRIDGE
	16 Mar 1992	21:05	16 Mar 1992	21:25	GATERS MILL

FLOY: 2599 LENGTH: 84 WEIGHT: 11 SEX: M CONDITION: 8/10
RELEASE DATE: 23/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J9/6	23 Jul 1991	15:15			WOODMILL
	8 Aug 1991	13:15			D\S TESTWOOD POOL
	14 Aug 1991	10:00			TESTWOOD POOL
	15 Aug 1991	15:05	15 Aug 1991	20:50	TESTWOOD
	20 Aug 1991				TESTWOOD POOL
	23 Aug 1991	23:00	28 Aug 1991		TESTWOOD
	28 Aug 1991	10:15			TESTWOOD POOL
	9 Sep 1991	2:26			TESTWOOD
		9:30			TESTWOOD POOL
	11 Sep 1991	13:41	12 Sep 1991	14:05	TESTWOOD
	12 Sep 1991	14:09	16 Sep 1991	17:25	TESTWOOD
	16 Sep 1991	17:00			TESTWOOD POOL
	17 Sep 1991	12:26	19 Sep 1991	16:11	TESTWOOD
	22 Sep 1991	10:41	24 Sep 1991	10:50	TESTWOOD
	24 Sep 1991	10:00			TESTWOOD POOL
		10:57	27 Sep 1991	4:55	TESTWOOD
	27 Sep 1991	13:40	28 Sep 1991	5:35	TESTWOOD
	28 Sep 1991	13:50	30 Sep 1991	15:05	TESTWOOD
	30 Sep 1991	14:00			TESTWOOD POOL
		15:10	4 Oct 1991	11:05	TESTWOOD
	2 Oct 1991	11:15			TESTWOOD POOL
	8 Oct 1991	11:30			TESTWOOD POOL
	10 Oct 1991	11:02	14 Oct 1991	17:30	TESTWOOD
	11 Oct 1991	9:30			TESTWOOD POOL
	14 Oct 1991	17:55	15 Oct 1991	0:40	TESTWOOD
	15 Oct 1991	16:50	15 Oct 1991	18:05	TESTWOOD
	16 Oct 1991	7:25	16 Oct 1991	9:35	TESTWOOD
	17 Oct 1991	1:35	17 Oct 1991	9:35	TESTWOOD
		14:20	23 Oct 1991	13:04	TESTWOOD
	23 Oct 1991	13:06	29 Oct 1991	10:55	TESTWOOD
		13:30			TESTWOOD POOL
	29 Oct 1991	10:30			TESTWOOD POOL
		10:44	31 Oct 1991	10:55	TESTWOOD
	31 Oct 1991	11:00	4 Nov 1991	6:25	TESTWOOD
	4 Nov 1991	12:30			TESTWOOD POOL
		12:51	7 Nov 1991	8:40	TESTWOOD
	7 Nov 1991	18:17	14 Nov 1991	8:35	TESTWOOD
	14 Nov 1991	23:05	15 Nov 1991	0:05	TESTWOOD
	15 Nov 1991	10:00			TESTWOOD POOL
		10:51	20 Nov 1991	9:10	TESTWOOD
	20 Nov 1991	15:30			TESTWOOD POOL
	21 Nov 1991	7:05	27 Nov 1991	16:26	TESTWOOD
	27 Nov 1991	16:00			TESTWOOD POOL
		16:29	3 Dec 1991	10:45	TESTWOOD
	3 Dec 1991	16:51	9 Dec 1991	16:10	TESTWOOD
		17:00			TESTWOOD POOL
	4 Dec 1991	11:00			TESTWOOD POOL
	9 Dec 1991	16:50	12 Dec 1991	10:06	TESTWOOD
	12 Dec 1991	9:30			TESTWOOD POOL
		10:08	17 Dec 1991	10:35	TESTWOOD
	22 Dec 1991	17:35	23 Dec 1991	8:45	NURSING LOCK HATCHES
	10 Jan 1992	12:35			COW SHED POOL
	17 Feb 1992	11:00			WEBBS POOL BROADLANDS
	27 Feb 1992	14:00			D\S WEBBS POOL BROADLANDS

FLOY: 2890 LENGTH: 78 WEIGHT: 8.8 SEX: F CONDITION: 7/10

RELEASE DATE: 30/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J9/8	30 Jul 1991	7:00			WOODMILL
	2 Aug 1991	21:10	2 Aug 1991	21:20	WOODMILL
	6 Aug 1991	13:30			WOODMILL POOL
	18 Aug 1991	3:00			WOODMILL
	20 Aug 1991	2:25			WOODMILL
		13:30			WOODMILL POOL
	22 Aug 1991	2:30	22 Aug 1991	19:05	WOODMILL
	23 Aug 1991	4:25	25 Aug 1991	7:00	STANFORD MEADOWS
	28 Aug 1991	4:15	2 Sep 1991	4:15	STANFORD MEADOWS
	2 Sep 1991	10:00			WOODMILL POOL
		20:35	10 Sep 1991	21:50	STANFORD MEADOWS
	12 Sep 1991	21:15	16 Sep 1991	4:15	
	16 Sep 1991	21:05	20 Sep 1991	5:05	STANFORD MEADOWS
	20 Sep 1991	20:25	25 Sep 1991	6:20	STANFORD MEADOWS
	25 Sep 1991	15:30			GOOSE NECK S.M.
		19:10	2 Oct 1991	13:30	STANFORD MEADOWS
	2 Oct 1991	13:30			GOOSE NECK S.M.
		19:10	7 Oct 1991	2:20	STANFORD MEADOWS
	7 Oct 1991	14:30			GOOSE NECK S.M.
		18:56	11 Oct 1991	7:00	STANFORD MEADOWS
	11 Oct 1991	18:35	16 Oct 1991	0:01	STANFORD MEADOWS
	29 Oct 1991	14:55			GOOSE NECK S.M.
		18:26	1 Nov 1991	22:41	STANFORD MEADOWS
	7 Nov 1991	19:41	10 Nov 1991	19:50	STANFORD MEADOWS
	14 Nov 1991	13:30			GOOSE NECK S.M.
		16:46	14 Nov 1991	17:30	STANFORD MEADOWS
	21 Nov 1991	16:36	21 Nov 1991	17:11	STANFORD MEADOWS
	23 Nov 1991	16:46	23 Nov 1991	17:21	STANFORD MEADOWS
	26 Nov 1991	15:30			PUMP RUN S.M.
	27 Nov 1991	16:42	27 Nov 1991	20:56	STANFORD MEADOWS
	29 Nov 1991	23:31		23:46	STANFORD MEADOWS
	2 Dec 1991	12:30			PUMP RUN S.M.
	30 Dec 1991	13:30			U\S GOOSE NECK S.M.
	3 Jan 1992	5:00	3 Jan 1992	7:01	STANFORD MEADOWS
	6 Jan 1992	15:00			D\S RIVER INN PUB B.S.
	9 Jan 1992	12:00			MILL POOL B.S.
	15 Jan 1992	13:20			IRON BRIDGE POOL L.B.S.
	19 Jan 1992	2:05	23 Jan 1992	14:35	STANFORD MEADOWS
	23 Jan 1992	16:30			GOOSE NECK S.M.
		18:26	27 Jan 1992	19:11	STANFORD MEADOWS
	28 Jan 1992	20:01	31 Jan 1992	10:11	STANFORD MEADOWS
	3 Feb 1992	22:45	3 Feb 1992	22:50	STANFORD MEADOWS

FLOY: 2569 LENGTH: 82. WEIGHT: 14 SEX: F CONDITION: 9/10
RELEASE DATE: 18/6

TAG	DATE	TIME	DATE	TIME	LOCATION
J10/1	18 Jun 1991	9:40			WOODMILL
	20 Jun 1991				WOODMILL POOL
	22 Jun 1991	19:05			WOODMILL
	25 Jun 1991	15:15			WOODMILL POOL
	2 Jul 1991	9:10			WOODMILL POOL
	9 Jul 1991	15:00			WOODMILL POOL
	27 Aug 1991	10:15			WOODMILL
	23 Sep 1991				WOODMILL POOL
	1 Oct 1991	12:00			WOODMILL POOL
	3 Dec 1991	17:00			D\ S HUMP BACK BRIDGE TESTWOOD
	4 Dec 1991	11:00			HUMP BACK BRIDGE TESTWOOD
	10 Dec 1991	10:05			WOODMILL POOL
	13 Dec 1991	9:30			WOODMILL POOL

FLOY: 2560 LENGTH: 77 WEIGHT: 11 SEX: M CONDITION: 8/10
RELEASE DATE: 2/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J10/2	2 Jul 1991	9:45			WOODMILL
	9 Jul 1991	15:00			WOODMILL POOL
	23 Jul 1991	14:20			GATERS MILL

FLOY: 2561 LENGTH: 66 WEIGHT: 6 SEX: F CONDITION: 6110
RELEASE DATE: 9/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J10/3	9 Jul 1991	15:00			WOODMILL
	14 Jul 1991	4:45			WOODMILL
	7 Oct 1991	14:30			JUNCTION S.M.
	7 Jan 1992	13:30			1/2 MILE D/S HIGHBRIDGE

FLOY: 2877 LENGTH: 66 WEIGHT: 8 SEX: F CONDITION: 9
RELEASE DATE: 2218

TAG	DATE	TIME	DATE	TIME	LOCATION
J10/4	22 Aug 1991				REDBRIDGE
	27 Nov 1991	16:00			HUMP BACK BRIDGE TESTWOOD
	12 Dec 1991	9:30			HUMP BACK BRIDGE TESTWOOD
	27 Dec 1991	10:30			HUMP BACK BRIDGE TESTWOOD
	14 Jan 1992	14:15			HUMP BACK BRIDGE TESTWOOD

FLOY: 2896 LENGTH: 81 WEIGHT: 14 SEX: M CONDITION: 7
RELEASE DATE: 2917

TAG	DATE	TIME	DATE	TIME	LOCATION
J10/5	29 Jul 1991				ROMSEY MEMORIAL PARK, SIDE STREAM.
	31 Jul 1991				U\S TURBINES DAVE STEUARTS
	4 Aug 1991	20:00			U\S TURBINES DAVE STEUARTS
	5 Aug 1991				U\S TURBINES DAVE STEUARTS
	8 Aug 1991	13:15			DAVE STEUARTS

FLOY: 2860 LENGTH: 59 WEIGHT: SEX: M CONDITION: 8/10
RELEASE DATE: 13/8

TAG	DATE	TIME	DATE	TIME	LOCATION
J10/5A	24 Jul 1991	3:10	24 Jul 1991	5:05	WOODMILL
	25 Jul 1991	15:30			WOODMILL
	13 Aug 1991	7:15			WOODMILL
	14 Aug 1991	11:45			WOODMILL POOL
					WOODMILL
	15 Aug 1991	4:10			WOODMILL
	20 Aug 1991	13:30			WOODMILL POOL
	30 Aug 1991	1:45	30 Aug 1991	1:55	GATERS MILL
	4 Sep 1991	14:30			THE PULPIT G.M.
	21 Sep 1991	14:10	21 Sep 1991	14:40	GATERS MILL

FLOY: 2589 LENGTH: 74 WEIGHT: 10 SEX: F CONDITION: 9/10
RELEASE DATE: 16/7

TAG	DATE	TIME	DATE	TIME	LOCATION
J10/6	16 Jul 1991	9:00			WOODMILL
	17 Jul 1991	21:15			WOODMILL
	18 Jul 1991	9:50	19 Jul 1991	12:10	WOODMILL
	23 Aug 1991	17:10	29 Aug 1991	23:40	WOODMILL
	27 Aug 1991	10:15			WOODMILL

FLOY: 2894 LENGTH: 66 WEIGHT: 7 SEX: F CONDITION: S110
RELEASE DATE: 3017

TAG	DATE	TIME	DATE	TIME	LOCATION
J10/8	30 Jul 1991	7:00			WOODMILL
	6 Aug 1991	13:30			WOODMILL POOL
	9 Aug 1991				WOODMILL POOL

FLOY: 2861 LENGTH: 57 WEIGHT: SEX: F CONDITION: 7/10
RELEASE DATE: 20/8 .

TAG	DATE	TIME	DATE	TIME	LOCATION
J10/8A	14 Aug 1991	0:45			WOODMILL
	20 Aug 1991	13:30			WOODMILL
	27 Aug 1991	10:15			WOODMILL
	2 Sep 1991	10:00			WOODMILL POOL
	4 Sep 1991	11:15			WOODMILL

FLOY: LENGTH: WEIGHT: SEX: CONDITION:
RELEASE DATE:

TAG	DATE	TIME	DATE	TIME	LOCATION
J10/9	13 Aug 1991	7:15			WOODMILL
	4 Sep 1991	10:15			WOODMILL POOL

FLOY: LENGTH: WEIGHT: SEX: CONDITION:
RELEASE DATE:

TAG	DATE	TIME	DATE	TIME	LOCATION
NO TAG INPLANTED.	2 Jul 1991	9:45			WOODMILL



NRA

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Southern Region*

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