FAVIRONNENT AGENCY WALES

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Fishery

to the National As

Narch 2002

Environment Agency Wales

Salmon Conservation Measures. Proposals March 2002

Agency intends to submit the following proposals for consideration by the National the continued failure of the Wye salmon fishery to meet its conservation Assembly for Wales. In recognition of target the

Considerable public consultation with fisheries interests has resulted in a large measure of additional measures to secure more salmon within the spawning these agreement for population.

Agency and fishery whilst number of measures are proposed as amendments to the Agency's code of byelaws the measure to increase release of rod caught fish will be promoted by the voluntary basis. a owners on

but to prohibition of bait fishing the long term angler numbers are expected to increase in response to increased numbers In the salmon returning to the fishery. As a means to mitigate for this negative impact and agreed to relax the current prohibition of spinning during the early part of the I of support for the package of proposals amongst individual anglers the of new regulations. season when all angling is subject to compulsory catch and release. the number of anglers may decrease as a result of the economic impact on some fisheries as a result increase the leve will be an Agency has term There adult short III

Nature to examine the 10 duty the Agency has general To ensure that the requirements of the Habitats Directive in relation to the with, restore the conservation status of interest features are complied with consulted with both the Countryside Council for Wales and English impact of these proposals. consulted

A number of papers are submitted herewith in support of the proposed measures.

- On The River Wye paper giving the technical reasons supporting the proposals. Proposals For Additional Measures To Conserve Salmon -
- paper describing the adoption of the precautionary approach with respect to the River ye as recommended by the NASCO to its member governments. ecision Structure to Aid the Council and Commissions of NASCO and the 101 Relevant Authorities in Implementing the Precautionary Approach Management of North Atlantic Salmon Fisheries /ye ri
 - A paper submitted to the local consultative group as part of the consultation process.

 Notes On Wye Bye-Laws Meeting, Monmouth Office, 27th September 2001 Byelaw Proposals. - Memo to Wye Local Fisheries Group Salmon A paper eń
 - paper supporting paper 3. 4
- Wye Salmon Rod Fishery Proposed Regulatory Amendments A paper supporting paper 3 River vi

Environment Agency Wales

PROPOSALS FOR ADDITIONAL MEASURES TO CONSERVE SALMON ON RIVER WYE

INTRODUCTIO

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spring component of Data were principally They have achieved the objective to some extent (assessment of data from the Welsh introduced Trout Centre). Dee suggests that rod exploitation of Jan-May fish may have decreased from 26% to 19%. were These from Dee Stock Assessment Programme provided by National Salmon and intended to reduce the level of exploitation of the increasingly vulnerable g salmon abundance, byele the Wye, Usk and round of declining fishing for salmon on backgn rod त्यं against regulate stocks. 1995, further

and international scale and recently concern has been expressed by the scientists acting on behalf of the international community. The International Council for the Exploration of the Sea (ICES) international community. The International Council for the Exploration of the Sea (1023) sents an annual report to the North Atlantic Salmon Conservation Organisation (NASCO) that ludes an assessment of the status of wild salmon stocks and recommendations on their a national both the Wye being apparent 50 unique not exploitation and conservation. stocks presents an annual report includes an assessment salmon Declining

In recent years, ICES has advised NASCO that the grilse stock is close to its safe biological limit and great caution should be exercised in its management. The advice regarding stocks of larger, is that they are dangerously low, either outside or close to safe biological limits and extreme caution should be applied in their management. It was suggested that the decline may be due to changes in ocean climate. NASCO has recently set the lowest ever quotas a significant parties of NASCO (including achieve European Union) agreed to examine homewater measures that could reduction in the exploitation of larger salmon - see Appendix 3. Greenland and Faroese fisheries, whilst contracting multi-sea winter salmon limits and for the

Agency and the Government asked implementation as soon 1998, the with RFERAC's in October the Agency to propose appropriate measures to reduce exploitation for In response to this advice the Agency sought the views of RFERAC's, further consultation package of measures: Following proposed the following possible.

- flate season salmon by Promotion of national baseline byelaws for 1999 Enhanced promotion of voluntary catch and release and release of anglers
 - by river measures: continued development during 1999 and beyond. River

National Baseline Byelaws, 1999

Following extensive consultation, MAFF and Welsh Office Ministers confirmed the introduction Agency were accepted byelaws. However not all the measures proposed by the new national

sea trout and June for salmon season commercial fishing

superceded by the buyout of local commercial interests been initiative has since

June release of all rod caught salmon before and Mandatory catch *

is aimed the 16th June contribution to the accompanied by a ensure maximum survival This measure mandatory catch and release of all rod caught salmon prior to should be making a conservation of the spring and summer MSW salmon stock components. continuing angler education programme to promote good practice and in early-running and large salmon and whilst continue to fishing allowing decline of advantage introduction of at addressing the fish. the The has

for salmon fishing before 16th June only Fly and spinner

the 1st May, then This new Were important to note that the Wye this measure June other baits running MSW fish. prohibited. until for the No. only the national proposal introduced similar controls elsewhere, however it is ban on spinning prior to 1st May in the Wye remained. Essentially, resulted in a 16 day extension to the period when the use of baits is fly After nd spinner only until the 1st June. After of this measure was to protect the early 5 1995 restricted fishing Wye in and the The intention 2 use of fly introduced the permitted. Byelaws allowed

1998. Wye Byelaw Revi

consultation regarding amendments to the Wye byelaws commenced in an edecline in stocks and ensure the sustainability of the fishery. A variety of sed for consultation with the fishery interests on the Wye. However this ded by the national byelaw review, and as result progress with the Wye as postnoned. attempt to address the decline in stocks and ensure the sustainability options were proposed for consultation with the fishery interests process was superseded by the national byelaw review, and as reserved. was postponed. 1998 internal specific measures In May

1.3. Wye Byelaw

vers with particular problems meriting further controls. This was an important driver for the estumption of the Wye specific byelaw process. A new round of consultation began in May 1999 designed to complement the National (baseline) byelaws. This was justified because of the particularly serious decline in all components of the Wye salmon stocks as evidenced by rod byelaws were advertised in May 1999 but withdrawn following substantial objections from fisheries interests groups and anglers to allow further consultation. rivers with particular resumption of the During the

Wyc listed in t "unitavou Scientific statutory The

Periods of low catche incres annual dec fish.

Since 1981 catch

downward to compone In 2000 the **** less fecund, Prior to

More detail of



for 90 grilse comp

STATUS OF THE WYE SALMON STOCK

Selection as listed in the E.C. Habitats and Species Directive being the Atlantic salmon. In the opinion of the Wye Sites of Special 200 with one of the features for Status of XIVE. the Mature, 10, Otrategy for Conservation English Finglish Conservation and CCW Area bodies, CA Scientific Interest, March 2001) Wye is a candidate Special declining" Satisty construction animounte, The same of the sa

2.1 Rod catch - recent trends

the 20th century. Relatively, 330's, declined in the 1940's 1960's and 1970's when the the long-turn average of 3600 satches in the early part of the century increased during the 1930's, declined increased again through the 1950's. Catches peaked in the late 1960's and 19 salmon abundance are evident throughour annual declared catch often exceeded or was at a level close to 10W low catches in the early Periods of high and then

1981 there has been a decline in the numbers of rod caught fish with the lowest recorded for 90 years declared in 1999 (567 fish). This decline is apparent in both the spring and (Fig. 1) Stock Wye of the for 90 years deci components STISE Since catch

downward trend in spring running salmon stocks is of further concern because historically this run component has contributed more to egg deposition and the fishery resource than the smaller. of the total season carrie This with the declared catch of spring fish the worst on record. 1296 2 were taken amounting ng grilse component. 592 fish, FIST. 89 Nas June 2000, less fecund, later runni rod catch 2000 the 101 Prior

THE PROPERTY OF THE Wye salmon stock is contained consultation document. of the on the status 112 Aore detail and Plan

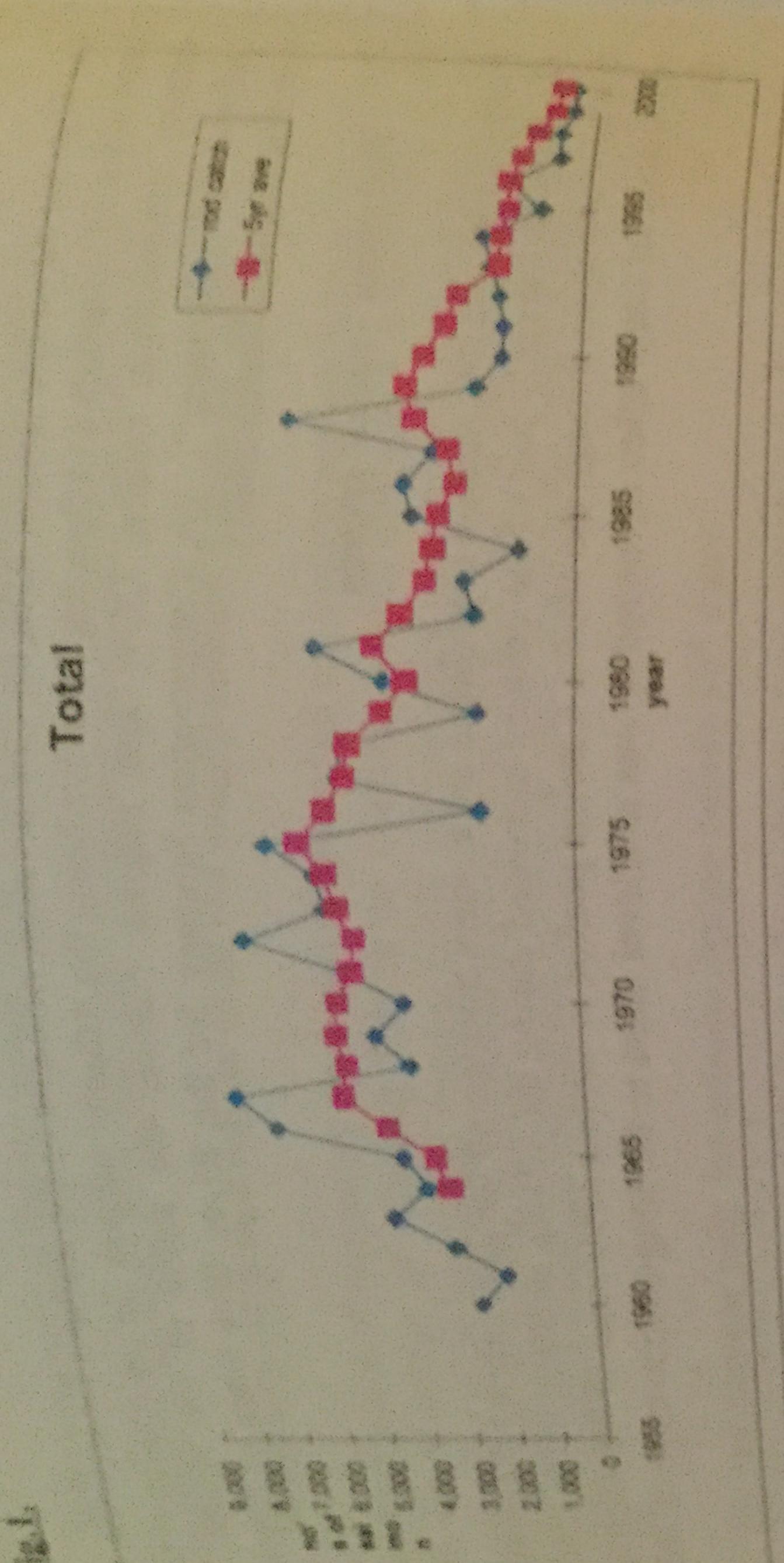
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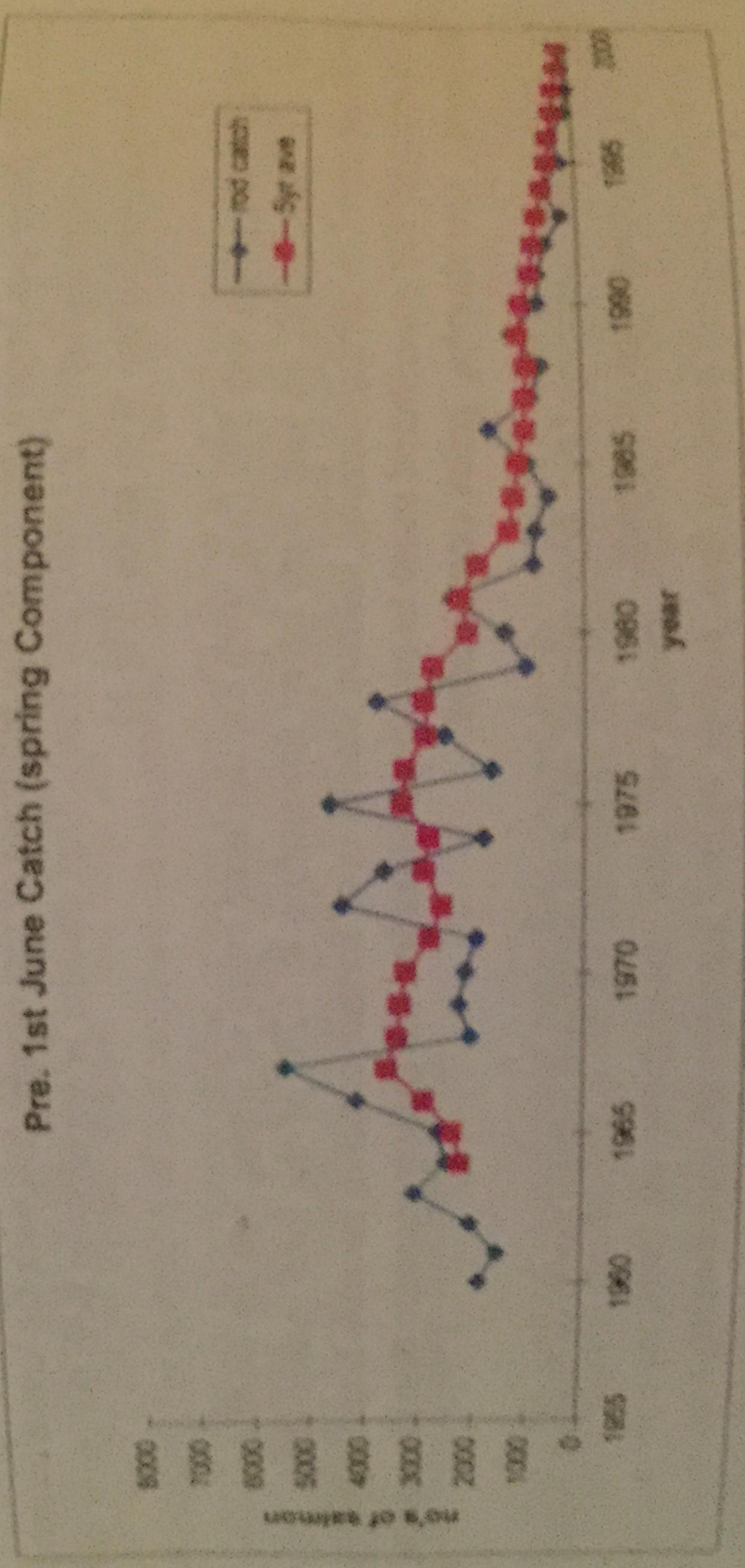
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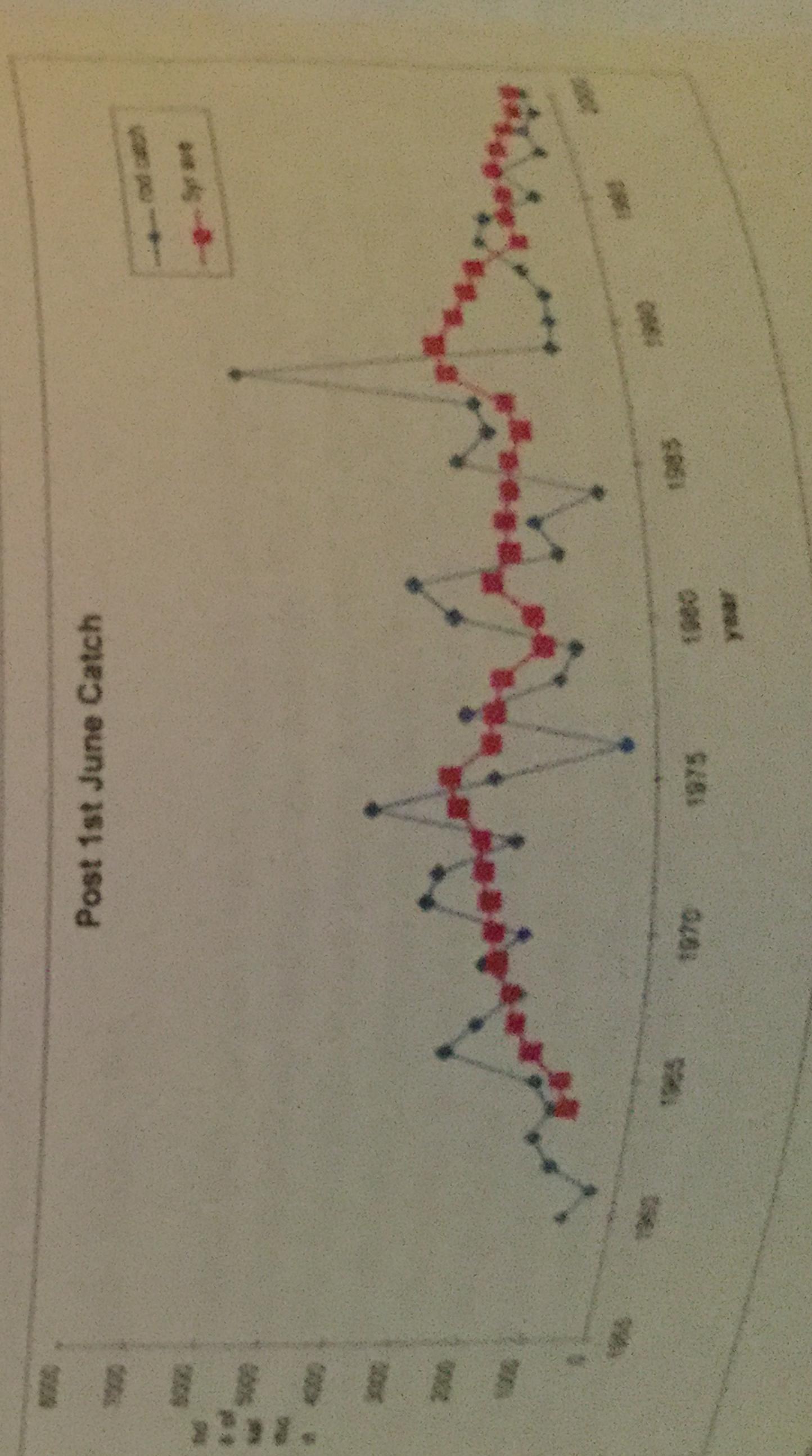
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Spawning Target and Compliance

Target the amount of accessible area within the catchment optimum spawning levels expressing the number of eggs which should be laid on average each it does this by defining provide an objective Action The Egg Deposition Saimon ement ement CCS 2 seeks to is fundamental Stock. FISH. The application of Conservation Limits to salmon rivers is fur Plans currently being developed by the Agency. The approac standard against which to assess the status of a river's salmon of the river's stock of term sustainability an assessment of confaining habitat of suitable quality. year to ensure the long (Edt) is derived from

e its conservation limit. Whilst for most salmon rivers but following a long term study, such information does exist for the River Bush in Northern Ireland. Using local information about the quantity and quality of freshwater represents best practice to define Stock-recruitment curves are not available This is termed the from by NASCO which define Stock Recruitment curve that level of spawning which maximises total catch. habitat this Bush Model has been applied to the Wye to produc adopting this approach the Agency believes it adopted conservation limits recommended Minimum Biologically Acceptable Level (MBAL). meaningful conservation for most salmon rivers has are risks in 4 Sency

salmon. The details of all 4 targets are summarised in Table 1 below. cart of the catchinent is targets On the Wye, four targ available to migrating erm Target (L.TT) includes all of the accessible catchment except areas above natural reas upstream of Caban Coch dam on the Elan and the length of river below Bigsweir It also assumes that only 5% of the river below Hereford can be defined as uscable evel of egg deposition would This results in a uscable and accessible area of 976 hectares available for spawning. I Edt has been estimated at 46.5 million eggs. This level of egg deposition would expected from a spawming stock of 13,230 fish waterfalls, areas upstre Term is tidal. E CHIE predicted ELECTRICAL. The state

bectares and the Edi to 41.4 million eggs and equates to a spawning stock This reduces the accessible sess the effect of removing man-Systems (TT): of the Monnow catchment upstream of Osbaston weir is excluded Two further Interim Targets (IT1, IT2) have been derived to assemine to migration on the Monnow (IT1) and Lugg/Arrow

This reduces the accessible spawning area to 805 hectures and the Edit to equales to a spawning stock of 10,055 fish. that are STREET, STREET of man-made the lung and Arrest systems unstrum TO SEASON THE PARTY OF THE PERSON. CECHICE.

been used as the target against THE PERSON AND THE PE Tes hectares and the Forton 34 5 a spawming stock of 9,825 fish, of which about two thirds would be multi-see. the the forestering father. in areas of the upper catchment, that were likely to remain unresolved THE PRINT SECTION Acpled as the man reminer, figure and has areas reduces the available spawning area to The Short Later Transmit to the Property of the Short Later Later Later Short Later がある

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Spawning stock The state of the s equivalent to **** SETTOTE S SPREERS Suman term target Short term target Interim target Interim target. Same? Long Table

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Catches. Rod

Seasons target is assessed by estimating the an estimate of the number o Wye the established rod catch records made by fishery owners have the recent past shows that the Edt ha 1996 has declined further (Tabl underestimated the leve in recent effectiveness will have year enabling and since 1999 byelaw measures, these figures effort and catch records from 1980's (Fig. 2) surviving to spawn in each angling against the not been achieved since the mid to late Analysis of changes given particularly following the salmon De Ö been used to derive this. of spawning compliance Wye is eggs laid to be made. It is likely that, number of adult How well the

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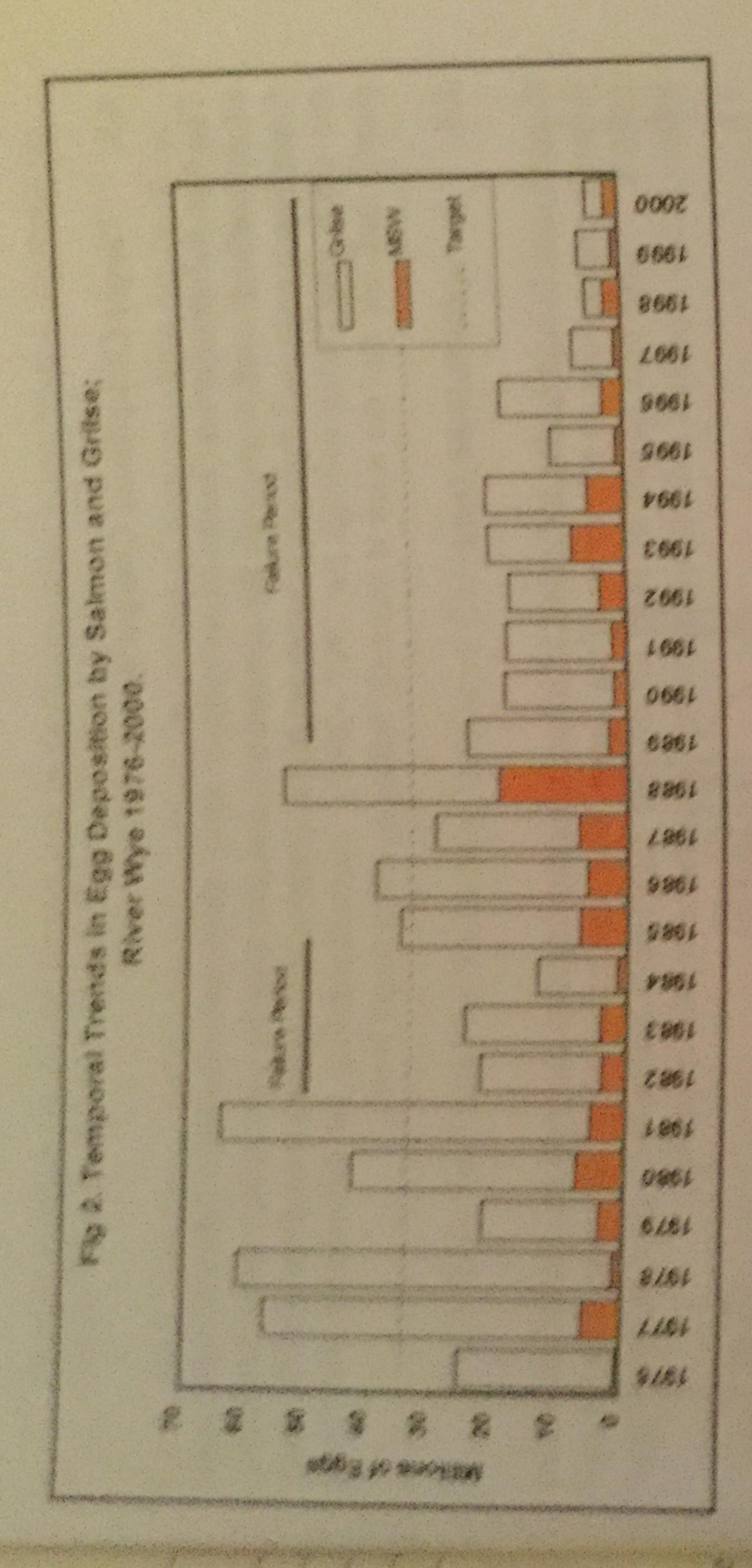
Table

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Estimate Table

	· ·		distribution and the	en marine di sa	- Company
Compliance against target (%)	96	23	16	2/-	
Egg deposition target (Edt) x 10°	34.5	34.5	34.5	34.5	34.5
Estimated N° eggs deposited (x10°)	19.22	7.82	5.4	6.31	4.98
Declared rod catch	1838	7/6	1	1 1 5/8	
	1661	1998	16661	1 2002	



4. Acoustic Counter Data

to provide more robust Spanning counter has been successfully estimating for inning. catche 8 liant 公司 大学

into e the counter data can be used against the Edt using counter derivation rod catches would spawning stock for the period taking However, modelling. better than Table piex CETOTINI 2

The state of the s	Validated fish count (No's of fish)	Spawning Spawning Escapement (No's of fish),	Spawning stock equivalent to Edt	Compliance with target spawning stock (%)
A CONTRACTOR OF THE PARTY OF TH	5602	20.14	9825	9
	070	6200	9825	99
10		3461	9825	
-	6987	5964	9825	79

Counter data corrected for count efficiency

mortality 7

Comparison ompliance.

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both higher) than those derived from differences because be taken when comparing them the differences, they erstandable 30% estimates of compliance show some und senerate the assessments, and care must compliance estimates from the counter are higher (approx The two independent Target of the methods 1 in

levels. (using average for 1997 –2000). Notwithstanding that the stock is currently failing to reach target leve that the stock is currently failing to reach target leve guisn) clearly indicate rod catch data

Juvenile

in the mid it is not known decline overall juvenile populations on tributaries of the Upper Wye since monitoring commenced 1980's. These data cannot be used for discrete compliance assessment whether they represent reductions in spawner abundance or habitat quality Compliance failure is also indicated by juvenile monitoring that

MANAGEMENT OBJECTIVES

in

Spawning adult salmon on the spawning maintain at least this level of short-term adult salmon the with target (34.5 million ova) by securing an annual average of 9,825 stocks In the longer term the aim will be to manage achieve is to objective for the Wye The immediate abundance. grounds.

of management objectives Wales) in their Agency conment set Envir agreed and agencies (CCW, English Nature and tegy for the River Wye SSSI's have Conservation Strategy for the River W including the following: conservation The

and by the SAP; spawning target for salmon as defined to meet the agreed

sustainable exploitation. encourage 0

MANAGEMENT

- Estuary of the Commercial Fisheries in Control 19
- fish until the years representing a decrease in privilege the number of these 10 agreement not TO in recent certificate subject ced from 1800 to 700 i are now approximately 60% and putchers has been reduced from Goldcliffe Putchers: season effort of 2005 Mills.
- fishery. this closed - the Environment Agency has ad Putchers: Slyme Ro. 4.1.2
- buy out brokered by the to bject Usk Drift Wye Sal 4.1.3

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permits required. can be issued salmon. OF are number controls 9 of licences which only the of additional 2000) limits 16 ther 31 红 Severn Es available. the but

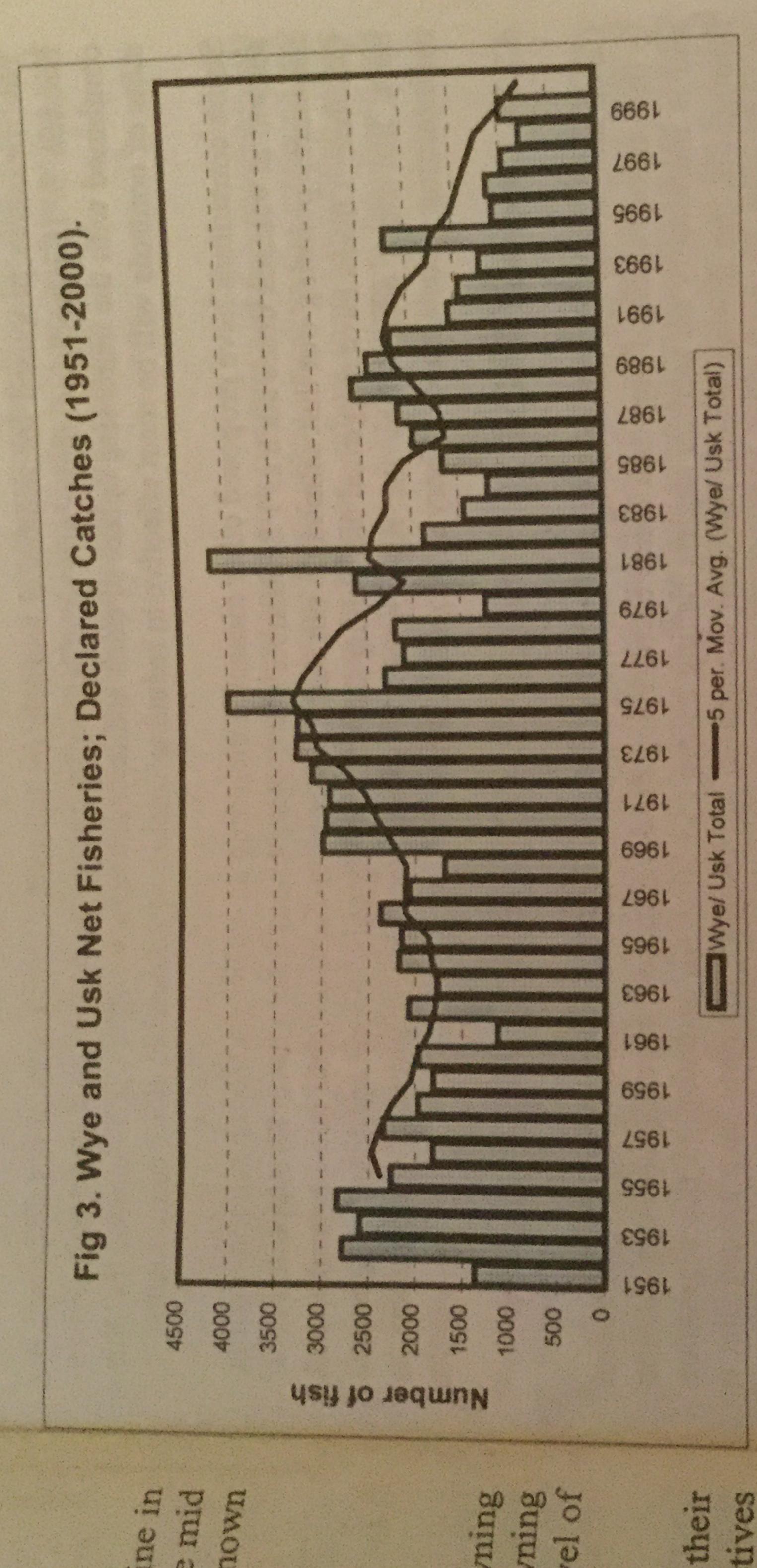
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overail further Wye the coming the probably providing all components of but marked, have E. O/ICES in rod fishery ass decline ularly rod E ulne years. - 2004 re A Bress is downward very protection to v stock a IS salmon There of the trend

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be considered to bring about and voluntary measures which fishery.

of salmon. reduction in the exploitation is a range of statutory

Bye-law Regulations.

believed that fhis Wing of wild salmon are discussed in stock components escapement **** be effective in increasing spawning uptake of catch and release amongst anglers, effective in reducing catches of vulnerable additional controls on the take these Section 5. If introduced the section 5. If introduced the combined with the increasing suite of controls will be most proposed measures

September and additional suggestions to the salmon angling Some consultees may proper as 1 September and 1 October but others have not supported such season at various times such as 1 September and 1 October but others have not supported such season at various times such as 1 September and not reach upper river fisheries until late companies such continued contribution late pointing out that salmon do not reach upper river fisheries until These Some consultees have proposed other measures including an earlier end October. Others have suggested that fishing should be by fly only. I have not been adopted by the Agency on the grounds of their maintaining a sustainable fishery in economic terms.

Catch and Release.

would not be acceptable to anglers and would undermine their acceptance of the prohibition of bait fishing. The Agency has acceded to this point and has agreed to promote a campaign of proportion of released seek to secure mandatory on salmon anglers fishing before Jun 16th. An extension of this regulation hour the fishing season has been considered but fisheries interests have argued that it making a contribution exploitation Catch and release has the advantage of allowing angling to continue whilst making a to the conservation of the stock hence encouraging the development of sustainable Such a campaign will review in which targets for an increasing angler education with the major fisheries on the river. throughout the fishing season voluntary targets and an annual fish will be set. bait fishing. and is

see that most fish successfully swim off after capture. However we are aware that, although a high proportion survive initially under certain conditions, at other times a significant proportion Some of the factors influencing their survival are summarised maximise its benefits through the minimising of mortalities. Anglers often fail to recognise the and the crucial need for careful handling of fish, because they and release will controls in the application of catch approaches and die after a period of 2 to 3 weeks. limitations of catch and release, adoption of suitable below.

Water Temperature,

100% mortality rates amones exceeded 21.1. are known to contribute to elevated mortality amongst salmon caught and released when ambient water temperatures salmon caught and released. A study on a southern chalkstream recorded High water temperatures

Vye Salmon Conservation M.

Such temper chemica Caught Wye

Caught while Angiing M Perhaps of e used to catci consequent when small, are used.

Fish size!

During the a changes con caught and r nence st capture. and

4. Angler Ex

In 1993 son More recent Salmon caug than the nati Licence ret on the Wye Similar at 4. incr better survi throughout average. release

Closure of

is not consid themselves and the revenue whose our A number of jobs, plays an importan measures which in contin exploitation activity to

Removal of rod temperatures are regularly encountered on the lower Wye, although in its physical lical nature the river is very different from a chalkstream. Kemoval or ye fish to Greenbottom hatchery has revealed significant mortality amongst whilst the water temperature approaches 20°C. caught caught Such and

4.2.2.2. Angling Methods.

leg-

Larger barbed hooks or bait fishing which can result in stomach hooking and ent damage to fish are incompatible with catch and release. small, single, barbless hooks and techniques relying on hooking the fish in the jaw played and released. The method release survival achieved of post Perhaps of equal importance is the way fish are hooked, tch fish is important with the greater chance cal consedue used to when are

4.2.2.3. Fish size/ Time of Year.

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Similarly, grilse have been shown to be more robust than MSW fish when I released, perhaps because the smaller grilse take less time to be played out stress levels are lower. combine to protect fish) hence they are better able to survive the stress of rod autumn period fish are more robust (water temperature and fish physiological and changes During capture caught

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4.2.2.4. Angler Experience.

increases in popularity angler education and experience will increase, leading to (52%) but also nationally (43%). In 2000, the return rate nationally was 42% but reduced to 36% on the Wye. It is to be expected that as catch and return data). Data for 1999, show a more pronounced improvement particularly he 1998 figures show a slight improvement with 31% of fish returned England and Wales whilst the equivalent figure for the Wye was 24% national trend, and in 1997 only 12% of fish were returned, half of the national salmon caught were released. Anglers on the Wye have generally responded more slowly More recently there has been a steady increase and figures for 1997 indicate that 24% of Wales were released by anglers. some 10% of salmon caught in England and survival rates amongst released salmon. average similar

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4.2.3 Closure of the Rod Fishery.

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of encouraging sustainable increase the spawning stock of the river whilst allowing the associated economic such as those of gillies, depend directly on the existence of the fishery that important role in many rural communities. The challenge therefore is to introduce d their contribution to the local economy. Many are operated as a source of owners would be expected to mount substantial objections to their loss of income. viable option due to the commercial value of the fisheries objective Closure would not be a considered and whose not themselves

A. S. Other Mannah

These partners are actively undertaking initiatives to address and ameliorate the including the following. d that the failure of the salmon to reach its conservation target cannot be remedied at the failure of the salmon Action Plan involving the EAW and other bodies has a dine and a Salmon Action Plan involving the EAW and other bodies has actions alone and a Salmon Action Plan involving the EAW and other bodies has a colons alone and a Salmon Action Plan involving the EAW and other bodies has a colons alone and a Salmon Action Plan involving the EAW and other bodies has a colon and a salmon Action Plan involving the EAW and other bodies has a colon and a salmon Action Plan involving the EAW and other bodies has a colon and a salmon Action Plan involving the EAW and other bodies has a colon actively undertaking initiatives to address and amelionate It is recognised that regulatory

salmon's decline been produced.

Juvenille Stocki

nation on the Tiver. In practical winds a review of its performance, agreement was sent on the Wye has been small. Following targets for production and the contributions early in 2002 on an Action Plan setting targets for production and the contributions activities could be sustainable and that they will committee to salmon activities could be sustainable and that contribution from the hatchery to salmon e river. In practical terms the net contribution of its nerformance and to salmon the river. is seen as an important element of salmon management by many salmon the river. The Agency has supported the hatchery since its incurre the river. operated by the Wye Salmon Hatchery Company Limited in the lower Wye sustainable and that they expected of the main partmers in its operation. interests on 1995 and rehabilitation on the A hatchery has been recruitment on the since believing angling

4.3.2 Habitat Improvements

coppiced more than 30km of these tributaries to improve rearing habitat for young trout as well as benefits to wider assemblages of wildlife. It is due to finish in March 2002. project aims to improve incomes to riparian owners in rural areas by improving the prospects project aims to improve in four tributaries of the upper Wye. The project has so far fenced and for brown trout angling in four tributaries of the upper Wye. The project has so far fenced and The Wye Habitat Improvement Project (WTIIP) is a European funded collaborative project lead by the Wye Foundation. Other partners include EA Wales, Countryside Council for Wales, by the Wye Foundation. Other partners include EA Wales, Countryside Council for Wales, Radnor and Brecknock Wildlife Trusts, Farmers Union of Wales and Cardiff University. The Radnor and Brecknock Wildlife Trusts, Farmers Union of Wales and Cardiff University.

management agreements available to riparian owners within areas designated as Section 15 of the Countryside Act (1968). passes and fish easements at about five partial obstacles to migration serving to improve access for salmon to upstream spawning areas. Recently WF has progressed riparian habitat improvements to several km of the river Duhonw in association with CCW. These works take migration have increased the availability of spawning areas. Moreover the WF has provided fish clear temporary obstacles to (a charitable trust) and the River Wye Gillies Association have together been responsible for access improvement works in a number of tributaries within the upper clean compacted spawning gravels and to 2 SSSI's under Section 1 Wye Foundation Efforts advantage of catchment. The

ameliorating benefit the rural The project has three broad based WF (fronting a habitat, hence organizations) seeking funding under Objective 2. main objectives together aiming to restore fisheries in the Wye and heconomy. It will deliver this overall aim by improving riparian acidification and by improving the marketing of fishing in rural areas. application has recently been submitted by the partnership of interested acidification and by substantial

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ures Paper March 2002 Wye Salmon Conservation Mea

Wye Salm

of high quality salmon spawning up some 10km tributary of the Irfon, which opened substantial area

4.3.3 Research and Development

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including the following, have been implemented recently including: projects Several

- ssessment of spawning habitat quality in the Ithon (in collaboration with University of Southampton).
 - on spawning habitat future collaboration with University of Gloucestershire impacts Investigation of sediment sources, pathways and (proposed
- (water company Asset Management Plan) project to model and apportion Water Welsh nutrient sources to the catchment (EAW in collaboration with MP

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- Assessment of nutrient (phosphate) dynamics and sediment sources in a collaborative project
 - -a study their management-Group. y EA, DEFRA and English Nature.
 the impact of predatory birds and options for auspices of the Wye Management Advisory the of Study under

ADDITIONAL WYE MEASURES PROPOSED W.

5.1 Delay the opening of the season until 3rd March.

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the should with protection from exploitation. opening date ensure that Will harmonises the but Usk. It has little impact on the catch of salmon of salmon be re-established it will be given prof 36 days and season by of the rod Reduces the length run neighbouring season early from fishery owners and gillies that very few anglers currently fish the river d February an is evidence January There during

for salmon at all times of year use of worm, prawn and shrimp as baits Prohibit the 5.7

is unlikely to be a significant when compatible with catch and release. Although a proportion of fish saved as a It is usually the case that this technique causes sufficient damage at certain times of year of this measure will inevitably be caught by other methods, it fish is known to be very effective in catching ineffective. II other methods are of worm be 5 the fish The use number. result

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June resulting in many fish and removed from the larger fish catch of of these baits will assist the continued protection of these fish. the being taken years have shown a marked increase in immediately following the beginning of the bait-fishing season on 16 been protected by the fly and spinner only rule recent Prohibition Observations had which

of barbless hooks for salmon at all times of year use Voluntary

and shows that maximising discusses the merits of release of fish after capture N 4.2 Section

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to 30 April FORES NUTCH S. S. A. Herry

acceptance of the prohibition It is therefore proposed catch and release. of compulsory ameliorate its comomic impact of reduced catch, that this measure will both facilitate the during the period Builling nivised THE PERSONAL PROPERTY OF THE PARTY OF THE PA the building and will -3111 WSFOA temove -

OF PROPOSED ADDITIONAL MEASURES IMPACT SOF SUMMARY ***

fishery since 1995 and are saved' and on the number supporting information, of predicted numbers of fish assessment and from estimated using data collected fill for the (crins However impact of eggs deposited have been below. the -For cach measure SHOW Appendix (0.00) (0.00) (0.00) SHOWER

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		444,510
		220,118
Loin		6 1863

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It is inevitab been estimat 0 target levels, of all salmor catchment

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required inch to factors oth operation an improvement and assessing in recognino re-assessed a evident at this

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realise a further 7300

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bait fishing would be an additional benefit to the spawning stock of that would realise a further 444,500 eggs. The impact of prohibiting salmon,

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hatchery at Greenbottom or released voluntarily so this has been factored into the powering benefit estimate. If all the remainder (78) were released by anglers some 70 would be expected to survive equivalent to a benefit of 220,100 eggs. would have to be returned. Previously a number of these (78) have been sent to the allow 156 salmon to be caught, catch and release programme would of a all of which The impact hatchery

catch and release regulation. A crude estimate has been determined showing that on average 12 fish per year representing a potential 62,000 eggs might be expected to be lost as a result. Whilst it is difficult to estimate the full impact of allowing additional spinning it is accepted that number of multi-sea winter fish would be taken additional an

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expected to result in an increase of approximately 610,000 eggs. impact overall The

MEASURES CONTINGENCY COMPLIANCE AND FUTURE

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Sed

of fish to spawn would also not have would probably still not have been achieved because the current status of the the in earlier years, force note that if these further measures had been Total escapement of the run the target in the short term. stock is considerably depleted. important to deposition target achieved It is

target levels. Such an angling moratorium would have a huge economic impact from the closure been estimated that, in the absence of further pressure from a range of adverse factors outside the that the return of the Wye stock to target levels of abundance will take time. It has home waters, even a total moratorium on angling would not result in a return to angling and would not result in achieving the target of sustainable exploitation. and It is inevitable salmon catchment all of

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It is also anticipated that advances in the science of calculating spawning targets Continued counter the national bye-laws and proposed further measures may not achieve the spawning escapement. Numbers of salmon may well increase or decrease due measures may not achieve the factors other than the byelaws, making it difficult to isolate their effects. Continued contactors other than the establishment of a longer time series of data, will help to detect compliance will be achieved. required increased that improvement. and assessing feasible operation 1

national byelaws. If recovery is not In recognition of these various factors it is therefore proposed that these regulations should be evident at this review period, then further controls on rod exploitation will need to be considered same time as the proposed review of the the Options include assessed at re

- found not to work, 15 at times when catch and release regulation at all times of the of fishing of prohibition
 - fly only imposition
 - the closure of

- TO CONSTITUTE OF STREET, ST. Contract San Maria amongst the spring salmon component, Currently, best estimates suggest it , E a considerable decline THE TO SCHOOL ITS COST CONTROL TO SELECT MASS STONE THE SECTION OF THE SECTION OF state.
- The judgement included ministerial guidance supporting the provision of enhanced protection 1999 improved the protection of salmon where there were particular concerns regarding salmon special case. on a discrete river by river basis where there were particular com-numbers. There is powerful evidence suggesting that the Wye is a inc) byclaws enacted in April The particular of
- in isolation will not be enough and must be seen as one facet of any However, home-water in the level of exploitation are Himonit. abundance. justified in order for the stock to begin to return to target levels of controls there is a risk that the decline will continue or accelerate. 3. A vailable information indicates that further reductions Wye salmon numbers. exploitation controls ategy to improve 100
- 4. On the basis of the assessments in this paper the proposed regulations would increase egg annually. 6888s of 610,000 deposition by an average
- will lead to a return to target levels of abundance in the immediate may take many years future and full recovery None of the options
- further Without improvements to the numbers of adult salmon returning to spawn the value of the important and are recognised by the Agency (see Appendix 2). impact (as a result of rod fisheries will continue to decline and a negative economic impact (as a result of byelaws) in the short term may yield a sustainable economic recovery in the future. Economic factors
- time. in 2004 after will be subject to review at the same 1999 national byelaws has been promised Wye byclaws additional of the impact period of five years. A review of the

measures current byelaw controls Nye.

byelaw measures Wye including national trout on the R. and the Current rod and line fishing byelaws for salmon and Wye specific byelaw restrictions introduced in 1995

- downstream of Llanwrthwl commences on 26th January and finishes on 17th October (25th October upstream of Llanwrthwl Bridge). Season commences Bridge
 - only from 1st September to 30th April. and spin only 1st May to 15th June. spin and bait fishing 16th June to 31st Fly only from
 - Fiy
- August. 3181 Fly, spin and
- June. eth 6 caught before salmon (with minimum injury) all Release of

the uo in force The above measures represent the baseline position currently

are: proposed amendments to the above byelaws specific Wye further The

- season until 3rd March; of the opening delay the
- times of year; shrimp as bait at all
- prohibit the use of worm, prawn and shrimp as bait at all the allow spinning during from 3 March until 31 August; and voluntary catch and release of all salmon after 31st August; voluntarily use of barbless hooks at all times of year.
 - voluntarily use

as follows; been made have impact of these measures certain assumptions calculating the

survival rates; C&R

sources data 1995/6), of (variety August radio-tracking 31st June and before 1st June (Wye i.e. between 1st spring caught fish i.e. summer caught fish of of survival survival 50% 30%

and data radio-tracking (Wye caught fish i.e. after 1st September other sources). of autumn a variety of Wye), survival including %06 from

rate has not been considered. mortality Vatural

some instances returns for the byelaws III and 1999 National Wye owners byelaws Wye calculated using mean rod catch data from since the introduction of the 1995 the introduction of the 2000 i.e. since Figures have been 1995-2000 199 period period for the

catch. consider non-reported adjusted not have Figures ons in this paper considered in the calculati

one being Jo in place method another taken by being for fish been een made &R 'oluntary

allowance has restricted. S

fish: Grilse = 0.379 MSW = 0.687of hen opulation (MSW of total Proportion

87 × 0.3 33 × 37

'saving'

The

Grilse

using bait after

64 × 0.6 44 × 72

MSW:

num

The total

used in the

Total catch af

Measure

33

assumptions of these (Both 7278 eggs. 3766 eggs Grilse == MSM fish: verage fecundity

Wye SAP).

Calculations.

March 3rd until season the opening of 5.1 Measure -

-	Sib and Zolu							7					
A construction of the second	-81b			0	+	0	-	0	-	0	0		0
	Vear	2000	77	900		100		866		6661	000	+	Mean

was Assuming this deposited (1) of fish numbers being eggs terms 78 d lead to an additional in is minimal measure then it wou impact of this fernale

Number

times of year bait at all as rimp shr and prawn Worm of i

Year	481b	81b and >81b	Total
1999	50	64	114
2000	124	63	187
Mean	87	64	151

of the new national byelaw bait) fishing can only as the introduction ther (and Worm means that used peen June) 2000 16th 1999 and fly and spin only b Only data from

of fish previously caught number is the this measure entation CIM 'ing'

Remain

June = 151 salmon. Of these 87 fter 16th using

ng' in terms of eggs deposited:
7 x 0.379 = 33 hen fish
3 x 3766 = 124,278 eggs.

6.687 = 44 hen fish 7278 = 320,232 eggs.

eggs deposited mber of additional

of all salmon after -Voluntary

August

Caught	SW Unknown	29.	86	7	7	9	5	3
Number of Fish Ca	Grilse	96	132	30	124	14	24	70
	Total	225	323	29	199	74	49	156
	Year	1995	1996	1997	1998	1999	2000	Mean

		returned or sent	t to hatche	7
Year	Total	Grilse	MSM	Unknow
1995	93	31	62	0
1996	130	36	68	5
1997	19	9	13	0
1998	140	82	50	8
1999	99		44	2
2000	32		21	0
Name	78	28	47	3

catch that would be subject to further

TO STATE OF THE PARTY OF THE PA		6	St	80	181		82
CINAL SOLL							
	2	8	**				
1801	Sooi	1 386	1001	8001	0001	2000	Mean

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C&R survival rate at this time of year = 90% Therefore for grilse (<81b) 90/100 x 41 = 37.

Therefore for grilse (<81b) 90/100 x 37 = 33.

for donations to the hatchery after 31" August ie 70 salmon from implementation of this measure is the additional number of fish caught that which 37 are grilse, and 33 are MSW. may released voluntarily allowing 'saving' 40

The 'saving' in terms of eggs deposited:

$$14 \times 3766 = 52,724 \text{ eggs.}$$

 $33 \times 0.687 = 23 \text{ hen fish}$
 $23 \times 7278 = 167,394 \text{ eggs.}$

MSW:

The same

2000

6661

1998

1997

been

were

Year

er of eggs deposited would be 220,118. The total numb

Apr and Allow spinning in March

greater than those available today, was allowed prior to 1995, the number during March and April is difficult to estimate, as the technique has been prohibited since 1993 likely to be caught following the relaxation of controls on the use of spinns be caught at that time were somewhat Whilst spinning it is not possible to make direct comparisons. and the exploitation rate is unknown. fish of fish available to The number of

18/8

18

A

counter data (ie the estimate There are clearly inaccuracies in this method since an and exploitation rate (estimated from the exploitation rate (estimated fro been applied to selected months and a discrete component of the stock be used as a rough guide only. monthly number likely to be caught can therefore crude approach has been adopted in which an annual has availability of fish in each month). counter data) exploitation rate has and estimate of the catch annuai K

production of the same of the

that

2000	1 6987	234	305	8.3%
1999	4217	196	371	12.9%
1998	7649	367	409	9,7%
1997	7039	231	421	9.00%
Data	Counter (a)	Catch d/s counter (b)	Catch u/s counter (c)	Exploitation Rate

1b+c.100/a+b

in the following calculations to determine the estimated annual catch if spinning had been permitted in March and April. The mean exploitation rate (9.98%) has been rounded up to 10%

April and arch Numbers of Fish Caught by Spinning in M of the Estimation

Year	Validated	Counter Data	Declared	d Catch	Estimated if Spinner	Extra Catch sed Been
	March	April	March	April	March	April
1997	196	374	1	2	4	32
1998	42	20	2		0	
1999	167	240	1	6	10	15
2000	28	325	9	4	0	29

number of eggs that would have been lost if spinning had been permitted has assuming a 50% catch-and-release survival to spawn, and that 70% of the fish been calculate The estimated female.

	Extra Catch	Fish Lost to Spawning Stock Stock	Females Lost	Eggs Lost
000	36	18	13	94,614
000				7,278
0000	1 35	13	6	65,502
200	1000	15		80,08
3	23	12	6	61,863

inner

995

lost to the spawning have would These to be be permitted prior to May is 9 females. The estimated annual average number of early season fish likely ing were to population if spinn

Tieted

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経済を No.

	Reference -				
				# (COLOR)	
SECTION CAR.					
	53	0			
		-	2		****

THE WAS STORY AND THE STORY OF Will be The overall 'samp' that Production of produce a supplication of barbless hooks. potential

 The second

local HO impact economic who derive a commercial benefit from salmon fishing. the forward in recognition are put measures proposed communities The

ECONOMIC IMPORTANCE OF THE FISHERY

return for a rental charge which accrues to the owner. Such hisheries, and a minimal assist the set too, have traditionally employed staff known as gillies whose job is to advise and assist the glers using the fishery. The number employed continues to decline as a result of the declining coess of the fishery, indeed 2 further redundancies were announced in 2001. Such fisheries, and a number of private basis with rods being let sheries on the River Wye are operated on a commercial number of fi ones too, have success of the anglers using III

communities within the catchment provide accommodation for visiting anglers and a number of fishing tackle and other service outlets derive a benefit from the sport Several

anglers that declining For instance there are now only seven men gillies compared to more than thirty at the height of the river's production As this number fisheries, the amount spent locally anglers fishing. gillies and It is clear from anecdotal information from fishery owners, salmon catches are adversely impacting on the number of reduces so too does the rental and capital value of the rod f declines and the number of people employed falls. (anecdotal information). employed as reduces salmon

There is therefore a clear economic impact of the decline in the salmon population although there to quantify its magnitude. are no studies

IMPACT OF THE MEASURES

in the loss of capital value worth of salmon will continue to have decline remains unchecked the the fishery as to make extent catch, an that if this will cause more unemployment and will result such A continued decline in the stock, and subsequently rod to It is likely Wye will decline economic impact locally. the salmon in uneconomical, several million of population negative

The proposed incomment of the number of salmon reaching the spawning tributaries whilst at significant positive impact on the number of salmon reaching the spawning tributaries whilst at a significant positive impact on the number of salmon of the spawning fishing to continue. Anglers will still be able to pursue their sport, so are have increased and term stocks 50 designed long exploitation to be release are in the whilst and level, will allow angling incorporating voluntary catch same about the allowing fishing to continue. economic activity at abo increase to a level which improved economic benefit generated measures proposed maintaining 2 expected The

However informal discussions have indicated that economic impact compared to that the concept of catch and release and a significant that some anglers will disapprove of and may not have prefer not to fish as a result of its introduction. will be small It is recognised this number

1 with a further,

the use

which would occur were

enforcing new measures catch implementing decline in continued arrested and Whilst there are no quantitative estimates of the cost of introducing but impact economic economic precise CONCLUSION of their nor

the exploitation of the stock. negative cd have 9 continue

maintained regulatory controls on

uptake of the

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be

conservation of the the river to see On fisheries enhance major and fishing revenues be initiated with the education will introduce a marketing strategy to improve iscussion will also A continuing programme of angler 0 release philosophy. stock.

So fai ma 90

wa T'S Da Sol 田田 sto The rese 55 exp

fish

which would occur

CONCLUSION

enforcing

catch will uptake of the new measures implementing the decline promote continued arrested and Whilst there are no quantitative estimates of the cost of introducing but the exploitation of the stock impact economic economic negative regulatory controls on precise d have of their continue to nor

conservation of the fisheries on the river to see enhance major and be maintained to improve fishing revenues the Discussion will also be initiated with continuing programme of angler education will introduce a marketing strategy release philosophy. stock.

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fal III 00 Wa ra 0 So sto THE rest S exp

fish

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PRHING CHREST *** Fishery Atlantic Salmon Conservation Organisation, 100 Committee on O Council Paper CNL(01)11; May of the ICES Advisory North Repor SEZ

nent Advice: Options or Alternative Manager Section 2.5

maturing 1SW sulmon in the Southern European stock complex has been below any province observed value throughout this period. In both 1999 and 2000 recruitment before exploitation that mixed stock fisheries present was below the spawning escapement reserve. ICES considers that reductions in exploitation whole stock complex has Moreover, recruitment for the years. The spawning escapement rates are required for as many stocks as possible and the conservation limit throughout the past threats to conservation. ISW stocks: fallen below Southern E particular

exploitation rates are urgently required for as many stocks as possible and that mixed stock remain below this reserve in 2001. ICES considers that further reductions in as been below the spawner escapement salmon from Southern stock complex has been close to or outside safe biological limits throughout much of this period. these estimates suggests that the PFA he spawning escapement for the whole SE Suropean MSW stocks: The PFA of non-maturing been declining steadily since the 1970s and the spawn The upper 95% confidence limit for PFA of spawners has eserve for the past four years. Qualitative projection of particular threats to conservation. Southern reserve for fisheries pr is likely to Europe has

To: Members of the Wye Local Fisheries Groun

Dyddiad/Date 16 November 2001

Subject: Salmon Byelaw Proposals.

a large measure of disagreement over the suggested options and that any submission to the NAW would of options for further regulation of fishery to achieve a greater escapement of adults to increase the number in the that that there was from the consultation process a number be strongly opposed by a number of fisheries interests. that the Agency had advertised It was clear population. You will be an the salmon rod spawning

consensus position but there was a substantial majority in support of the options in the attached join the Agency's officers to seek an agreed submission I asked the to reach were not able We Unfortunately and maximise support for proprietors of the top ten fisheries, based on catch returns, to submitted. proposals to be In order to minimise the objections a consensus on the appendix.

I have also attached a copy of the notes of our meeting for your information.

Madeleine the meeting. extend my thanks to those who were able to attend and particularly Dr. WyeMAG who so ably acted as an independent chair for Havard, chair of should like to

JOHN GREGORY

Fisheries, Ecology and Recreation Manager; SE Wale

Wye Foundation Lacy, Symmonds Yat, Sellack Astley (IA), Hereford and District AA Gen Hopkinson(JH), Chairman WSFOA, Bigsweir Dr Stephen Marsh Smith(SMS), Gromain, Holme Lacy No 2 Holme Lacy No 3 b, Duke of Beaufort Maurice Hudson(MH), Upper Bigsweir Chairman Phil Jordan(PJ), Garnons Estate Red Lion Attendees:
Miadeleine Havard (MHa). Nigel Mott(NM), Holme (MI) David Flumbatch (DH), Baden Dummett (BD) Michael Taylor(MT), Warwick Turner

Bill Purvis(BP), Steve Barker(SB) and John Gregory(JG) E

Introduction

were representing who they indicated (given above in parentheses). Each delegate introduced themselves to the Chair and in attending the meeting

Background

situation affecting salmon and put the proposed bye-laws into context. JG outlined his no-kill salmon fishery and suggested that to facilitate management the Wye SAP egg deposition target (edt) be adopted as the level below which there were no salmon stocks to exploit on. He then gave specific details of the suite of bye-laws proposed outlined the explained that the meeting had been called to obtain a consensus view from some of the and are attached. MHa then key rod fisheries interests on a new suite of rod bye-laws for the river Wye. JG proposals. The overheads used in the presentation have been reproduced feedback and discussion of the Agency's salmon stocks to exploi vision for the Wye as the floor for opened current

Feedback and Discussion

edt suggesting that it was an underestimate. He made the point that Otherwise the benefit of the other things were going on to be seen in the context of not discouraging contributions to the WF improve things but urged today's discussion to concentrate upon rod fishing. Wye riparian owners and anglers already under pressure. recognised that do would be lost. MHa was critical of the the bye-laws needed to works they (WF) SMS from

at current levels of exploitation (rod and within headland netting) exploitation had not reversed the trend. SMS countered that such made the case that previous reductions

the estu NN sai the rod W.T. sug C&R be

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should !

acceptal the river conside was rest season r drew the WF etc. introduc mandatc JH was

MH said catches (been cap substanti decrease

be killed

PJ was in they do n possi "mid-rive not

MT sugg grea bea only. river and

JH Was 8 that the

BD WOD season p

Usk drift nets and putchers in He argued that recently the Usk rod catch had this could be due to reductions in the exploitation by measures had always been taken too late. the estuary. railed and

Severn redd counts were high and rising although This was at odds with the Wyc... why was this? N'N said EA Midiands data suggested that the rod catch was low.

of UDN. He was opposed to with anecdotal evidence that the bye-laws C&R because of the high mortality rates. He supported his position with anec of several corpses found in the early summer on his beat. He believed that the should be amended to include the finishing of the season at the end of August. suggested that the Wye's problems went back to the effects HA

and lettings had dropped He did favour a worm ban because the method precludes successful release and le for fish being caught later in the season which had been "saved" by early if it was would improvement work and the need to curb exploitation. He would prefer the between the need to achieve a balance between maintaining contributions caught fish. He argued that IH was scathing about the Wye becoming a "no kill river" saying that it would not be acceptable to owners and rods to make it illegal to keep any rod caught fish. He argue and August 31st introduction of voluntary catch and release at the end of the season. He thought that mandatory at this time then every salmon caught between June 16th and August 31st He was concerned about the impact of the Irish drift net fishery. the river had reached the stage where fisheries were not being fished mandatory at this time then every salmon caught between June was responsible for season restrictions. drew the parallel WF etc. for their considerably. be killed. MH said that the biggest change on the river was the loss of the 3SW fish which dominated catches during the halcyon days, 2SW runs had held up quite well and grilse runs always had been capricious. The 3SW fish entered Wye in March and were the main stay of the substantial April and May catches in middle beats of the river. He also wondered whether the decrease in this component was associated with UDN in the late 1960's.

This view was echoed by other put the Garnon's beat case for the continuation of the status quo. Because water, all of their fish have been caught on worm this year. Spinning is years from May because of weed growth. "mid-river beats" represented at the meeting. possible in most PJ was instructed to they do not have fly not

22

He also asked if there should not be restrictions put in place to protect larger fish salmon catches in the middle drainage ph (improved field suggested that the affects of changes to the river hydrogra abstraction) had profoundly influenced greater levels of beats. nver only. and

comment from earlier IH was against any size limit on catch and release. He reiterated SMS based on the current rearing environment. that the edt was not

send a good it would be better to shorten the end". JH countered that reducing the season would the season start should be delayed, surely the "back end". JH countered that reducin season by reducing wondered why 80

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for "conservation" message "lose" February. 0

undertaking, hence the said that it will cost to promote them and a public inquiry would be a major financial no-cost option desire to achieve a consensus with Wye interests before then. JG in response to a claim that new bye-laws were

discussion about the potential for these restriction to hurt Wye no longer had any tenants and that the changes couldn't do "much to the salmon fisheries that he during NM revealed men

to fish for salmon with river) could be given the opportunity to recoup some advantage by do hold some fish). MT SMS raised the idea that in exchange for the removal of all baits those beats which would would protect some fish. supported this approach saying that it would give his anglers a chance in March and April (a time when their beats of catching at a time when C&R particularly suffer (mid a more realistic chance being allowed to spin

that at a recent meeting they had agreed to support all of the IA speaking for H&DAA said that at a recent meeting they had a proposals tabled by EAW except for the "no-kill river" position.

opinion that there was a risk that such a measure would lead to claims promoting such a bye-law. In response to a specific enquiry from 1G, The inclusion of a barbless hook bye-law was discussed. JG informed the meeting that EA of the delegates would consider seeking compensation from the Agency because this would materially affect the for compensation under the Water Resources Act. He asked if any NM reserved his position on this matter. had received counsel's Agency's position in

I were against such a JG asked for agreement on the proposal to ban worm, DH and restriction coming in.

representatives from all "parts" of much debate it was restrictions: discussions about the various options. After the river) for the following changes to current salmon rod fishing established that there was majority support (encompassing There followed further

- A bye-law to ban the use of barbed hooks
- April to bring the river March with the National Spring Fish Byelaws back the start of the season to 3rd March current spinning restrictions during in line with Lifting the
 - Putting
- on all baits (ie. Worm, prawn and shrimp) 4
- WSFOA and other voluntary C&R programme promoted by the Agency, interests. fishery

ban. Similarly, P.J. (on behalf of Guran, Feministration of Darks, Feministration of Courts, Fem the status quo to be mainteed measures specifically NA. However, not all of the delegates were supportive of all of these estate) was unable to support the suggested package requiring total bait DH and WT who were not in favour of the

Proposed Reg

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Delay op

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Amend

Augur

Prohibit

Introduce

4

when fish

Catch and

River Wye Salmon Rod Fisher

Proposed Regulatory Amendments 200

- 1. Delay opening of season to 3 March.
- from in addition spinning 3 ugust
- times prawn and shrimp bait for salmon Prohibit
- the use of barbless or require byelaw to new Introduce