

	<p><b>Council</b></p> <p><i>Annual Progress Report on Actions taken under the Implementation Plan for the Calendar Year 2022 EU – Spain (Navarra)</i></p>	<p><b>CNL(23)34</b></p>
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## *Annual Progress Report on Actions taken under the Implementation Plan for the Calendar Year 2022*

**The Annual Progress Reports allow NASCO to evaluate progress on actions taken by Parties / jurisdictions to implement its internationally agreed Resolutions, Agreements and Guidelines and, consequently, the achievement of their objectives and actions taken in accordance with the Convention.** The following information should be provided through the Annual Progress Reports:

- any changes to the management regime for salmon and consequent changes to the Implementation Plan;
- actions that have been taken under the Implementation Plan in the previous year;
- significant changes to the status of stocks, and a report on catches; and
- actions taken in accordance with the provisions of the Convention.

*In completing this Annual Progress Report please refer to the **Guidelines for the Preparation and Evaluation of NASCO Implementation Plans and for Reporting on Progress, CNL(18)49.***

These reports will be reviewed by the Council. Please complete this form and return it to the Secretariat **no later than 1 April 2023.**

<b>Party:</b>	<b>European Union</b>
<b>Jurisdiction / Region:</b>	<b>Spain (Navarra)</b>

<b>1: Changes to the Implementation Plan</b>
<b>1.1 Describe any proposed revisions to the Implementation Plan (Where changes are proposed, the revised Implementation Plans should be submitted to the Secretariat by 1 November).</b>
<p>In February 2022 the Review Group considered that EU – Spain (Navarra)’s revised Implementation Plan is fully satisfactory across all sections / areas of the Plan. Therefore, no more changes are foreseen</p>
<b>1.2 Describe any major new initiatives or achievements for salmon conservation and management that you wish to highlight.</b>
<p>[1] In the 2021 LIFE call for proposals, the Government of Navarre (through its public company GAN-NIK) submitted a project proposal named LIFE-KANTAUERIBAI, which has been selected for funding by the LIFE committee. The project will be implemented during the period 2022-2027 by a consortium of 13 partners from Spain and France to work on the improvement of the conservation status of species and habitats included in 5 river basins: Urumea, Oría, Bidasoa, La Nive and La Nivelles. One of the main targeted species is Atlantic salmon, for which the following activities will be carried out during the period 2022-2027 in the Navarre (Bidasoa basin): removal of 10 obsolete dams, construction of 4 fish passes, installation of an automatic</p>

migratory fish monitoring station, analysis of fish mortality in three hydro power plants and implementation of solutions, and setting up of an International Working Group for the coordination and management of migratory fish species between the 3 regions (2 countries) through which the Bidasoa basin flows. The project has just started to walk.

2) The salmon radiotracking scheme that started in 2018 is still ongoing. In 2022, 17 adult salmon have been tagged in the lower parts of the Bidasoa river basin when they entered from the sea and were tracked during the upstream migration and return to the sea of the surviving kelts. The analysis of the data gathered in 2022 is still ongoing (there are still a couple of salmon alive in the river). All the information gathered through these monitoring schemes will be used by the Government of Navarra in the management of the species with the objective of improving its population size and conservation status.

3) Besides, in 2019 a new programme of voluntary donations was implemented with anglers, and during this year the programme continued. Under this programme, on a voluntary basis anglers can donate each captured alive salmon to the Department of Environment to be tagged with a transmitter and released for its monitoring in the river or to be brought to the fish farm of the Government, to be used as breeder in the species' repopulation scheme carried out by the Government of Navarra. Three 2SW females out of the 23 salmon caught in the 2022 angling season (13%) were donated and anglers in all cases decided to bring them to the fish farm. The three of them survived until the spawning season, and produced around 25,000 eggs. At the moment, the new born fries are growing in the fish farm and will be released in the river in spring under the restocking scheme that the Government of Navarra carries out in Bidasoa River yearly since the 90's. The main objective of this programme is to change the anglers' way of thinking towards a more sustainable angling practice that should lead in the future to the normalization of the "catch and release" angling (no practiced by anglers in the Bidasoa River at the moment), while anglers are involved in the conservation tasks of the species that the Regional Government carries out in the Bidasoa River. This results are considered as an important success as the media impact has been quite significant and the general public acceptance is also big, which would certainly encourage more anglers to join the initiative in the coming seasons. Since the project was implemented four years ago, a total of 115,000 eggs have been "saved".

## **2: Stock status and catches.**

### **2.1 Provide a description of any new factors that may affect the abundance of salmon stocks significantly and, if there has been any significant change in stock status since the development of the Implementation Plan, provide a brief (200 word max) summary of these changes.**

Although no new factors that may affect the abundance of salmon stocks have been detected since last year, the stock decline that has been observed yearly since 2018 has led the species to a very worrying situation for its conservation in the basin.

Since the development of the Implementation Plan, several barriers have been removed and as a result, we observed an improvement on the colonisation rate of the basin by the migrating spawners, as they seem to reach further and faster to the upper areas of the Bidasoa River basin, where they were seldom seen in the past.

However, although the size of the stock varies among years, since 2018 we have observed a worrying continuous decline from 458 adult salmon entering the Bidasoa River in 2018, to 431 in 2019, 336 in 2020, 210 in 2021 and only 90 in 2022.

We are currently trying to clarify the reasons for this decline but, since the fluvial habitat conditions are the best for decades, the only answer that seems to explain this situation could be related to climate change. We have observed a decrease in the rainfall and an increase in water temperatures (especially during the summer) that could be hindering the survival of the species in the Bidasoa basin, although we certainly do not know if there could be other causes, such as an increase in natural mortality in the marine phase (if changes have occurred due to climate change that could explain this decrease), etc.

It must be taken into account that the populations located in the Southernmost distribution area of the species, as is the case of Bidasoa, will be the first to suffer the consequences of climate change and we could already be suffering them right now. We expect that international organisations, as NASCO, could shed some light on this situation by coordinating the results that are being obtained in other territories and proposing solutions that could be implemented.

**2.2 Provide the following information on catches: (nominal catch equals reported quantity of salmon caught and retained in tonnes ‘round fresh weight’ (i.e. weight of whole, ungutted, unfrozen fish) or ‘round fresh weight equivalent’).**

	In-river	Estuarine	Coastal	Total
(a) provisional nominal catch (which may be subject to revision) for 2022 (tonnes)	0.112			0.112
(b) confirmed nominal catch of salmon for 2021 (tonnes)	0.127			0.127
(c) estimated unreported catch for 2022 (tonnes)	0			0
(d) number and percentage of salmon caught and released in recreational fisheries in 2022	Catch and release angling is not practiced by the Bidasoa River anglers. However, 3 of the 23 captured salmon (13% of the total angling catch) were donated and brought alive to the fish farm of the Government of Navarra to be used as breeders in the restocking scheme			

**3: Implementation Plan Actions.**

**3.1 Provide an update on progress on actions relating to the Management of Salmon Fisheries (section 2.9 of the Implementation Plan).**

*Note: the reports under ‘Progress on action to date’ should provide a **brief overview** of each action. Please report in relation to the reporting year only or the most relevant recent year. For all actions, provide **clear and concise quantitative** information to demonstrate progress. In circumstances where quantitative information cannot be provided for a particular action because of its nature, a clear rationale must be given for not providing quantitative information and other information should be provided to enable progress with that action to be evaluated. While referring to additional material (e.g. via links to websites) may assist those seeking more detailed information, this will not be evaluated by the Review Group.*

<b>Action F1:</b>	Description of action (as submitted in the IP)	Data analysis for the establishment of the necessary reference limits.
	Expected outcome (as submitted in the IP)	Reference limits for every indicator of conservation status.

	Approach for monitoring effectiveness & enforcement <i>(as submitted in the IP)</i>	Quantitative goal: science based reference limits are established. Monitored by: the corresponding report that will be published in the webpage of the Department of Environment of the Government of Navarra.
	Progress on action to date <i>(Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. If sub-actions are completed during the reporting year, this should be made clear. Other material (e.g. website links) will not be evaluated)</i>	[The study “Conservation Limits for Atlantic Salmon in the Bidasoa River” was carried out by Carlos García de Leániz (Swansea University) in 2021. The document establishes the Critical Conservation Limit for the species at ~1 million eggs (equivalent to an escapement of 146 females and a density of 55 eggs/100 m <sup>2</sup> ) and the Favourable Conservation Limit at ~1.3 million eggs (equivalent to an escape of 189 females and a density of 70 eggs/100 m <sup>2</sup> ). In view of the fact that the Bidasoa salmon population is currently below the Critical Conservation Limit established by the study, the Regional Government has decided to prohibit salmon fishing during the 2023 angling season (regional regulation OF 34E/2023). The study is available for anyone who wants to download it freely from the website of the Environment Department of the Government of Navarra.
	Current status of action <i>(Please note: ‘Completed’ means that the overall action is complete for the lifetime of the third reporting cycle. If it is an ongoing action that is reported on annually, it should be marked as ‘Ongoing’)</i>	[Completed]
	If ‘Completed’, has the action achieved its objective?	[Yes, new Conservation Limits based on scientific evidence have been defined
<b>Action F2:</b>	Description of action <i>(as submitted in the IP)</i>	Annual monitoring of the species, based on: <ul style="list-style-type: none"> <li>(1) Collection of biometric and biological data of every salmon captured on recreational fishing.</li> <li>(2) Collection of biometric and biological data of every spawner salmon passing the salmon trap.</li> <li>(3) Electrofishing surveys on juvenile production areas.</li> <li>(4) Monitoring of redds and spawners.</li> <li>(5) Collection of biometric and biological data of every salmon passing the salmon trap.</li> <li>(6) Setup of a smolts control system.</li> <li>(7) To collect biometric and biological data of smolts captured.</li> <li>(8) Annual estimation of the conservation status of the salmon stock.</li> <li>(9) Monitoring of the sanitary status.</li> <li>(10) Preparation of protocols for the above actions.</li> </ul>
	Expected outcome <i>(as submitted in the IP)</i>	Data for stock trend analysis and evaluation.

	<p>Approach for monitoring effectiveness &amp; enforcement <i>(as submitted in the IP)</i></p>	<p>Quantitative goal: all data (biometric, electrofishing, redds, smolts, conservation status, sanitary status and protocols) have been gathered. Monitored by: the corresponding reports that will published each year in the webpage of the Department of Environment of the Government of Navarra.</p>
	<p>Progress on action to date <i>(Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. If sub-actions are completed during the reporting year, this should be made clear. Other material (e.g. website links) will not be evaluated)</i></p>	<p>1) Biometric data (LF and weight), scale samples for age determination and biological samples for sex determination, were collected for 23 salmon caught in the 2022 angling season. 100% of the expected outcome has been achieved. 2) Biometric data (LF and weight), scale samples for age determination and biological samples for sex determination (until august), were collected for 67 spawning salmon passing the Salmonid Monitoring Station (fish trap) in 2022. 100% of the expected outcome has been achieved. 3) There have been 31 electrofishing surveys on juvenile production areas. 100% of the expected outcome has been achieved. 4) During the 2022 redd monitoring campaign, 5 redds were observed in spawning areas downstream of the monitoring station and 5 more upstream of the station. 100% of the expected outcome has been achieved. 5) Biometric data (LF and weight), scale samples for age determination and biological samples for sex determination (until august), were collected for 67 spawning salmon passing the Salmonid Monitoring Station (fish trap) in 2022. 100% of the expected outcome has been achieved. 6) Use of the rotary screw trap to control de smolts production in the basin was discarded in 2017 due to the many problems that have been encountered in its set up and use. In 2019 a new system, based on the counting of the smolts trapped in the most downstream hydroelectric channel, was implemented and is being used since, also in 2022. 100% of the expected outcome has been achieved. 7) For the third year, the new system to control de smolts production in the basin was successfully used. The system is based on the counting of the smolts trapped in the most downstream hydroelectric canal, through the use of a fish pump connected to a fish counter, that release the smolts trapped in the canal safely to the river. Number of smolts and biometric data were collected. 100% of the expected outcome has been achieved. 8) The conservation status of the salmon stock in the Bidasoa River has been estimated. Following the indicators proposed in the Salmon Management Plan for the period 2019-2024, the salmon stock in Bidasoa River</p>

		<p>is “Unfavourable”. 100% of the expected outcome has been achieved.</p> <p>9) All spawners transferred to the fish farm have been treated preventively with antibiotics. On the fish farm there is a protocol for sanitary status monitoring and prophylactic treatments. 100% of the expected outcome has been achieved. All salmon passing the fish trap were monitored for sea lice and Red Vent Syndrome. 100% of the expected outcome has been achieved.</p> <p>10) All the foreseen protocols to carry out the above actions have been prepared. 100% of the expected outcome has been achieved.</p>
	<p>Current status of action (Please note: ‘Completed’ means that the overall action is complete for the lifetime of the third reporting cycle. If it is an ongoing action that is reported on annually, it should be marked as ‘Ongoing’)</p>	[Completed]
	<p>If ‘Completed’, has the action achieved its objective?</p>	[Yes, the action objective has been achieved]
<b>Action F3:</b>	<p>Description of action (as submitted in the IP)</p>	<p>Establishment of the annual total authorized catch (TAC) and the multi-sea-winter protection measures.</p>
	<p>Expected outcome (as submitted in the IP)</p>	<p>Annual estimate of the total authorized catch.</p>
	<p>Approach for monitoring effectiveness &amp; enforcement (as submitted in the IP)</p>	<p>Quantitative goal: every year, the annual total authorized catch (TAC) and the multi-sea-winter protection measures are implemented in the angling regulation. Monitored by: the yearly published angling regulations.</p>
	<p>Progress on action to date (Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. If sub-actions are completed during the reporting year, this should be made clear. Other material (e.g. website links) will not be evaluated)</p>	<p>[The total authorized catch (TAC) for the 2022 season was set at 47 salmon caught and the multi-sea-winter (MSW) protection measure was established at 14 MSW salmon. When 80% of the MSW TAC were caught (11 MSW salmon), the angling season was closed for a week. The expected outcome has been achieved.</p>
	<p>Current status of action (Please note: ‘Completed’ means that the overall action is complete for the lifetime of the third</p>	[Completed]



	<i>reporting cycle. If it is an ongoing action that is reported on annually, it should be marked as 'Ongoing')</i>	
	If 'Completed', has the action achieved its objective?	[Yes, the action has achieved its objective. This year, the annual catches did not reach the TAC. The MSW protection measure entered into action when the 11th MSW salmon was caught and angling was banned for a week between 30th of May and 5th of June (both included).The season was definitely closed the 19th of July (instead of the 31st, as it was planned) due to the fact that the heat wave that hit the Bidasoa basin in the second half of July caused the minimum water temperature to be above 22°C. Under these conditions, the Regional Government decreed that the environmental conditions put fish populations at serious risk, whose situation could be aggravated by the exercise of angling, for which reason it was decided to cancel the fishing season. A total of 23 salmon were caught, far from the 47 limit established but the yearly regulation.
<b>Action F4:</b>	Description of action <i>(as submitted in the IP)</i>	Socio-economic study of the angling activity in Bidasoa River.
	Expected outcome <i>(as submitted in the IP)</i>	An study dedicated to the socio-economic drivers behind the angling activity in Bidasoa River
	Approach for monitoring effectiveness & enforcement <i>(as submitted in the IP)</i>	Quantitative goal: the socio-economic drivers of the salmon angling activity in Bidasoa River are known. Monitored by: the corresponding report that will be published inthe webpage of the Department of Environment of the Government of Navarra.
	Progress on action to date <i>(Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. If sub-actions are completed during the reporting year, this should be made clear. Other material (e.g. website links) will not be evaluated)</i>	[This action is foreseen to be implemented in 2023, but progress has been done since 2018, gathering socioeconomic data about the angling activity. Until 2018, anglers only needed an angling license to legally catch salmon in Navarra. This license allowed fishing any authorized fish species and anywhere in the region where angling was allowed, so this system did not allow discriminating information regarding salmon fishing in particular. However, in 2018 a new permit system was introduced to specifically fish for salmon in Bidasoa River. When anglers apply for the permit, provide data that allow the analysis of the angling activity in Bidasoa River (origin of anglers, gender, number of days, etc.). A preliminary analysis has been carried out with the data of the first five seasons (2018-2022) that give information also about the angling effort, dates, etc. but the study will be continued to adequately allow the assessment of the activity and its trends. At the moment,

		the action is in progress, as the information is gathered on a yearly basis.
	Current status of action (Please note: 'Completed' means that the overall action is complete for the lifetime of the third reporting cycle. If it is an ongoing action that is reported on annually, it should be marked as 'Ongoing')	[Ongoing]
	If 'Completed', has the action achieved its objective?	[The action is achieving its objective, as now the socio-economic drivers behind the angling activity in Bidasoa River are better understood.]

**3.2 Provide an update on progress on actions relating to Habitat Protection and Restoration** (section 3.5 of the Implementation Plan).  
*Note: the reports under 'Progress on action to date' should provide a **brief overview** of each action. Please report in relation to the reporting year only or the most relevant recent year. For all actions, provide **clear and concise** quantitative information to demonstrate progress. In circumstances where quantitative information cannot be provided for a particular action because of its nature, a clear rationale must be given for not providing quantitative information and other information should be provided to enable progress with that action to be evaluated. While referring to additional material (e.g. via links to websites) may assist those seeking more detailed information, this will not be evaluated by the Review Group.*

<b>Action H1:</b>	Description of action (as submitted in the IP)	Update of the salmonid mesohabitat maps.
	Expected outcome (as submitted in the IP)	An updated GIS database and maps. This information will be used to report the impact assessment of any construction that could affect the important salmonid mesohabitats identified.
	Approach for monitoring effectiveness & enforcement (as submitted in the IP)	Quantitative goal: the corresponding report and GIS database. Monitored by: the corresponding report that will be published in the webpage of the Department of Environment of the Government of Navarra.
	Progress on action to date (Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. If sub-actions are completed during the reporting year, this should be made clear. Other material (e.g. website links) will not be evaluated)	[During this year a first approach of the map has been developed. Because the fieldwork effort required to carry out the work is very significant, it was decided to make the map in two years. During this year 2022, the map of the main channel of the Bidasoa River has been made, 50 km from the tidal limit in the international section to the town of Elizondo. By the year 2023, the main tributaries have been left (Zia, Onin, Tximista, Latsa, Ezkurra, Ezpelura and Artesiaga rivers), approximately 49 km. The work consists of mapping, characterizing and georeferencing different habitat units, such as productive areas for fry (riffles), pools, runs, potential spawning grounds, waterfalls and dams.



	Current status of action <i>(Please note: 'Completed' means that the overall action is complete for the lifetime of the third reporting cycle. If it is an ongoing action that is reported on annually, it should be marked as 'Ongoing')</i>	Ongoing
	If 'Completed', has the action achieved its objective?	[
<b>Action H2:</b>	Description of action <i>(as submitted in the IP)</i>	(1) Evaluation of the permeability of 7 obstacles or fish-ways carried out. (2) Preparation and implementation of 12 new projects to improve longitudinal connectivity.
	Expected outcome <i>(as submitted in the IP)</i>	Significant improvement of the river habitat accessible for salmon.
	Approach for monitoring effectiveness & enforcement <i>(as submitted in the IP)</i>	Quantitative goal: 7 studies of fishway permeability and 12 projects of longitudinal connectivity written up. Monitored by: the corresponding reports that will be published in the webpage of the Department of Environment of the Government of Navarra.
	Progress on action to date <i>(Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. If sub-actions are completed during the reporting year, this should be made clear. Other material (e.g. website links) will not be evaluated)</i>	Although the timescale of this action is 2019-2024, some progress has been made so far: 1) The evaluation of the permeability of one obstacle ("Colector de Legasa" coded as BI-23 in the Obstacles Data Base) has been carried out. The remaining six obstacles are being studied at the moment. Therefore, 14% of the action (one out of seven) has been implemented so far. 2) Three new projects to improve longitudinal connectivity were implemented in 2019: two dams of the Oronoz Hydropower station ("Presa de la Central de Oronoz" code BI-10, located in main Bidasoa River and "Presa del túnel de la Central de Oronoz" coded BI-AR-05 and located in Artesiaga stream, a tributary of Bidasoa River) and the dam of "Molino de Elgorriaga" (code BI-EZ-10, in Ezkurra River, one of the main tributaries of the Bidasoa River) were demolished. In 2020 an obstacle was eliminated ("Paso de colector Ezpelura" coded BI-EZ-EZP-02) in Ezpelura river (tributary of Bidasoa). In 2021, two more dams were demolished in Onin river ("Presa panificadora Lesakarra", coded BI-ON-BO- and "Presa del Molino Erdikoerrot", coded BI-ON-01) and one in Marin river ("Presa del Molino de Ziga" coded BI-MA-UR-01 in the Data Base). Both rivers (Onin and Marin) are tributaries of the Bidasoa River. Besides, a

		fish ramp was built also in 2021 in “Colector de Bera”, located in the main Bidasoa River. No new projects have been finalised in 2022. Therefore, 67% of the action (eight out of twelve projects) has been implemented so far.
	Current status of action <i>(Please note: ‘Completed’ means that the overall action is complete for the lifetime of the third reporting cycle. If it is an ongoing action that is reported on annually, it should be marked as ‘Ongoing’)</i>	[Ongoing]
	If ‘Completed’, has the action achieved its objective?	[The radiotracking monitoring programme is proving that salmon are getting further and faster than ever in the basin and already a significant improvement of the habitat accessible and used by the species is being observed, but more information will be gathered in coming years]
<b>Action H3:</b>	Description of action <i>(as submitted in the IP)</i>	Study about the smolt mortality during the migration to the sea in the hydropower turbines of the Bidasoa River basin.
	Expected outcome <i>(as submitted in the IP)</i>	Study that would provide data about the smolt mortality in hydropower turbines during the migration to the sea.
	Approach for monitoring effectiveness & enforcement <i>(as submitted in the IP)</i>	Quantitative goal: the corresponding report on smolt mortality. Monitored by: the corresponding report that will be published in the webpage of the Department of Environment of the Government of Navarra.
	Progress on action to date <i>(Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. If sub-actions are completed during the reporting year, this should be made clear. Other material (e.g. website links) will not be evaluated)</i>	[Not yet started. This action is foreseen to be implemented in 2023.]
	Current status of action <i>(Please note: ‘Completed’ means that the overall action is complete for the lifetime of the third reporting cycle. If it is an ongoing action that is reported on annually, it should be marked as ‘Ongoing’)</i>	[Not started]

If 'Completed', has the action achieved its objective?	
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### 3.3 Provide an update on progress on actions relating to Aquaculture, Introductions and Transfers and Transgenics (section 4.11 of the Implementation Plan).

*Note: the reports under 'Progress on action to date' should provide a **brief overview** of each action. Please report in relation to the reporting year only or the most relevant recent year. For all actions, provide **clear and concise** quantitative information to demonstrate progress. In circumstances where quantitative information cannot be provided for a particular action because of its nature, a clear rationale must be given for not providing quantitative information and other information should be provided to enable progress with that action to be evaluated. While referring to additional material (e.g. via links to websites) may assist those seeking more detailed information, this will not be evaluated by the Review Group.*

<b>Action A1:</b>	Description of action (as submitted in the IP)	Supplemental stocking of the Bidasoa River with salmon yearlings:  <ol style="list-style-type: none"> <li>(1) Selection and transfer of wild spawners from the fish trap to the hatchery.</li> <li>(2) Artificial spawning and fry growth in captivity.</li> <li>(3) Differential tagging of fry according to stocking moment.</li> <li>(4) Supplemental stocking in the Bidasoa River and tributaries, following the annual stocking plan.</li> </ol>
	Expected outcome (as submitted in the IP)	Increase of the emigrating smolt population and returning salmon.
	Approach for monitoring effectiveness & enforcement (as submitted in the IP)	Quantitative goal: number of wild spawners transferred to the hatchery, number of eggs produced, number of fry tagged and number of fry stocked. Monitored by: the corresponding report that will be published in the webpage of the Department of Environment of the Government of Navarra
	Progress on action to date (Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. If sub-actions are completed during the reporting year, this should be made clear. Other material (e.g. website links) will not be evaluated)	<ol style="list-style-type: none"> <li>1) 4 females and 16 males were selected in the Salmonid Monitoring Station in 2021 and transferred to the hatchery for the 2021 fry production, where they were spawned together with other 8 females recovered from the previous year. Therefore, the expected outcome has been achieved.</li> <li>2) 69,634 eggs were obtained and they produced 43,592 fry. The expected outcome has been achieved.</li> <li>3) All juvenile salmon fish stocked into Bidasoa River are tagged. Fry stocked in June-July are adipose clipped (ADC) while parr stocked in autumn are tagged with CWT+ADC. Differential DCWTsq marking according to the origin (different females, MSWxMSW, MSWx1SW and 1SWx1SW crossing, etc.) is carried out. The expected outcome has been achieved.</li> <li>4) In 2022, 35,247 salmon fry and 8,345 autumn parr were stocked in the Bidasoa River and its tributaries. The expected outcome has been achieved.</li> </ol>
	Current status of action	[Completed]

	<i>(Please note: 'Completed' means that the overall action is complete for the lifetime of the third reporting cycle. If it is an ongoing action that is reported on annually, it should be marked as 'Ongoing')</i>	
	If 'Completed', has the action achieved its objective?	[The action is achieving its objective, as tagged salmon keep returning to the Bidasoa River
<b>Action A2:</b>	Description of action <i>(as submitted in the IP)</i>	Genetic characterization of the salmon population.
	Expected outcome <i>(as submitted in the IP)</i>	Study of the genetic characterization of the salmon population
	Approach for monitoring effectiveness & enforcement <i>(as submitted in the IP)</i>	Quantitative goal: An analysis of the genetic variability and its comparison with the previous genetic characterization carried out in 2006 will be done. The results of this work are used to monitor the evolution of the genetic variability of the wild populations of Bidasoa salmon and ensure that it is not put at risk due to the supplemental stocking (action A1) carried out. It is vital to ensure that the genetic variability of the population is kept at low levels of consanguinity and high levels of genetic variability, both with respect to heterozygosity and the number of alleles. If these conditions are not met, the number of wild 16 spawners transferred from the fish trap to the hatchery (action A1) should be increased. Monitored by: the corresponding report that will be published in the webpage of the Department of Environment of the Government of Navarra.
	Progress on action to date <i>(Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. If sub-actions are completed during the reporting year, this should be made clear. Other material (e.g. website links) will not be evaluated)</i>	[The genetic characterization of the salmon population was carried out in 2020.
	Current status of action <i>(Please note: 'Completed' means that the overall action is complete for the lifetime of the third reporting cycle. If it is an ongoing action that is reported on annually, it</i>	[Completed]

	<i>should be marked as 'Ongoing')</i>	
	If 'Completed', has the action achieved its objective?	[Yes, the action has achieved its objective.]
<b>Action A3:</b>	Description of action <i>(as submitted in the IP)</i>	
	Expected outcome <i>(as submitted in the IP)</i>	
	Approach for monitoring effectiveness & enforcement <i>(as submitted in the IP)</i>	
	Progress on action to date <i>(Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. If sub-actions are completed during the reporting year, this should be made clear. Other material (e.g. website links) will not be evaluated)</i>	
	Current status of action <i>(Please note: 'Completed' means that the overall action is complete for the lifetime of the third reporting cycle. If it is an ongoing action that is reported on annually, it should be marked as 'Ongoing')</i>	[Choose an item.]
	If 'Completed', has the action achieved its objective?	

<b>4: Additional information required under the Convention</b>
4.1 Details of any laws, regulations and programmes that have been adopted or repealed since the last notification.
[Annually, a regional regulation (Orden Foral de Vedas) regulates salmon fishing: defines the Authorized Total Catch (TAC) in the season, the closing date (if the TAC has not been reached before), MSW protection measures, fishing calendar, minimum size, baits, hooks, etc. In 2022 the regional law was OF 40E/2022.



<p>As explained before, the radiotracking monitoring programme started in 2018 and the voluntary donations programme in 2019. Both continued in 2022 and it is expected they will also continue at least during 2023.</p> <p>The Government of Navarra, together with other partners, submitted a new LIFE project proposal (LIFE KANTAUERIBAI) targeting the improvement of Atlantic Salmon (among other species) in the river catchments of the project area (Gipuzkoa, Navarre and Aquitaine), that has been funded by the Commission. Foreseen actions related to salmon improvement include removal of obstacles, establishment of automatic monitoring stations, quantification of fish mortality by hydropower plants, solutions to avoid fish entering the canals of the hydropower plants, evaluation of the permeability of obstacles, radiotracking and establishment of an international Bidasoa Salmon Working Group, to share salmon related information with our Gipuzkoan and French colleagues.</p>
<p>4.2 Details of any new commitments concerning the adoption or maintenance in force for specified periods of time of conservation, restoration, and other management measures.</p>
<p>The Salmon Working Group in Spain, re-established in 2019, is expected to enable the exchange of information between all competent authorities and the establishment of synergies that may lead to further improvements in species management in the country. A meeting was held in Santander (Cantabria) in spring 2022 and we plan to meet again in spring 2023.</p>
<p>4.3 Details of any new actions to prohibit fishing for salmon beyond 12 nautical miles.</p>
<p>Not applicable (Navarra has not sea)</p>
<p>4.4 Details of any new actions to invite the attention of States not party to the Convention to matters relating to the activities of its vessels which could adversely affect salmon stocks subject to the Convention.</p>
<p>Not applicable</p>
<p>4.5 Details of any actions taken to implement regulatory measures under Article 13 of the Convention including imposition of adequate penalties for violations.</p>
<p>Not applicable</p>
<p><b>North American Commission Members only:</b></p>
<p>4.6 Details of any new measures to minimise bycatches of salmon originating in the rivers of the other member.</p>
<p>4.7 Details of any alteration to fishing patterns that result in the initiation of fishing or increase in catches of salmon originating in the rivers of another Party except with the consent of the latter.</p>
<p></p>