



QUESTIONNAIRE

Harmful Algal Bloom and Microbial Contamination Information (Andalucía)



This short questionnaire aims to gather opinions from shellfish and fin-fish producers to help to tailor a Harmful Algal Blooms (HABs) and microbial contamination bulletin being developed though the PRIMROSE project to their needs.

Currently, a public online website with weekly information on HABs, microbial contamination, and chemical contamination is available in Andalucía. It is maintained by the Regional Ministry of Agriculture, Fisheries and Rural Development available on:

http://www.juntadeandalucia.es/agriculturaypesca/moluzonasprodu/

The PRIMROSE project hopes to develop a forecast bulletin for both HABs and microbial contamination events that will be accessible to the public. An example of the current website is available at the end of this questionnaire for any respondents unfamiliar with its current format.



The project builds on existing monitoring programmes carried out in the partners regions to estimate harmful blooms, shellfish toxins and microbial contamination to comply with EU regulations. It will add value to these programmes by re-use of valuable data that is already being generated.

Project number: EAPA_182/2016





1.	inforn	nati	sejería de agricultura pesca y desarrollo rural" provides a weekly on on HABs, microbial contamination, and chemical contamination rebsite. Have you been accessing this information?
			Yes
			No
	If N	10,	please give a reason why:
			Haven't heard of the website before
			Do not find it useful
			Other
		If o	ther, please list reasons why:
2.	How o	ofte	n do you consult the website?
			Daily
			Weekly
			Fortnightly
			Monthly
			Other; please specify
3.	Have	you	been using the information in the website to make decisions?
			Yes
			No





If YES , what kind of decisions?
our opinion, does the website contain enough information to make it a usefu
II?
□ Yes
□ No
□ Not applicable
If NO , what additional information should be included?
here any information on the website which you do not find useful?
□ Yes
□ No
□ No If YES , please provide details:





6.	Junta de HAB/mic a forecas	Agencia de Gestión Agraria y Pesquera de Andalucía), on behalf of the Andalucía, currently cannot provide any projections or forecasts for robial contamination events. However, through the PRIMROSE project bulletin will be developed. Would you benefit from projections and/or being available on the bulletin?
		Yes
		No
7.		ast was available on the bulletin, how frequently should the robial contamination forecasting bulletin ideally be updated?
		Daily
		Weekly
		Fortnightly
		Monthly
		Other; please specify
8.		ast was available on the bulletin, what is the minimum timeframe for a m forecast to be useful to you?
		Forecast available 72 hours in advance
		Forecast available 1 week in advance
		Forecast available 2 weeks in advance
		Other; please specify
9.	What is n	nore important to you:
		Forecast accuracy (how correct the prediction is)
		Length of forecast (72 hours, 1 week, 2 weeks in advance)





	onger forecast time (e.g. one month in advance), the accuracy of the will decrease. Which of these scenarios would you prefer?
	Short forecast (<3 days) with accuracy of >80%
	Medium forecast (<7 days) with accuracy of >60%
	Long forecast (>1 month) with accuracy of <50%
11.lf a fore	cast was available on the bulletin, what information would you like it to
	Current conditions
	Water movements
	Phytoplankton general observations
	Prediction of temperature, salinity and density
	Satellite-derived sea surface temperature
	Satellite-derived chlorophyll images
	Historical trends
	Other; please specify
area wh	y, if you receive an indication that a harmful event is imminent in the ere your stock animals are kept, do you have any strategies/protocols in mitigate stock damage/financial losses? Yes
	No
	YES, what strategies/protocols do you use, and are there any problems sociated with them?





	a HAB event has arrived where your stock animals are kept, do you have trategies/protocols in place to mitigate damage/losses?
	□ Yes
	□ No
	If YES , what strategies/protocols do you use, and are there any problems associated with them?
14.Would	d a long-term (seasonal/monthly) projection be of help to you?
	□ Yes
	□ No
	If YES, how would such a report affect any decisions you have to make?
15. Overa	all, how important would a HAB/microbial contamination forecasting
	m be to you?
	□ Crucial □ Very important □ Slightly important
	□ Not important □ Unimportant





	uld encourage you to consult a potential HAB/microbial contamination oulletin more often? Please tick any that are applicable:
	Simplification of website bulletin
	Availability of a mobile app
□ pho	Automated alert system e.g. alert message sent directly to your mobile one
	Other; please specify
17.Please pr system:	ovide any suggestions for the development of a potential forecasting





YOUR INFORMATION

What i	s your main business activity? Please tick all applicable:
	Fin-fish producer (seabass)
	Fin-fish producer (seabream)
	Fin-fish producer (other; please specify)
	Shellfish producer (abalone)
	Shellfish producer (mussels)
	Shellfish producer (oyster)
	Shellfish producer (scallops)
	Shellfish producer (hatchery)
	Shellfish producer (other; please specify)
	Seaweed producer
	Fin-fish processors
	Shellfish processors
	Aquaculture and seafood agency
	Seafood exporter
	Private research institute
	Public research institute
	University
	Other; please specify
Please place:	e provide the location of where most of your business activity takes
	Please

EXAMPLE OF THE WEBSITE AVAILABLE IN ANDALUCIA (SPAIN)

Below are screenshots from the existing website (available via the Junta de Andalucía website). The examples below show the main page and the range of information you can request including "Situación Legal de las Zonas de Producción", "Informe Evolución Análisis Fitoplancton Tóxico", "Visor Lonjas y C.E. de Zonas Cerradas", "Periodos de Cierre de Zonas de Producción", and "Resultados Analíticos de las Zonas de Producción".









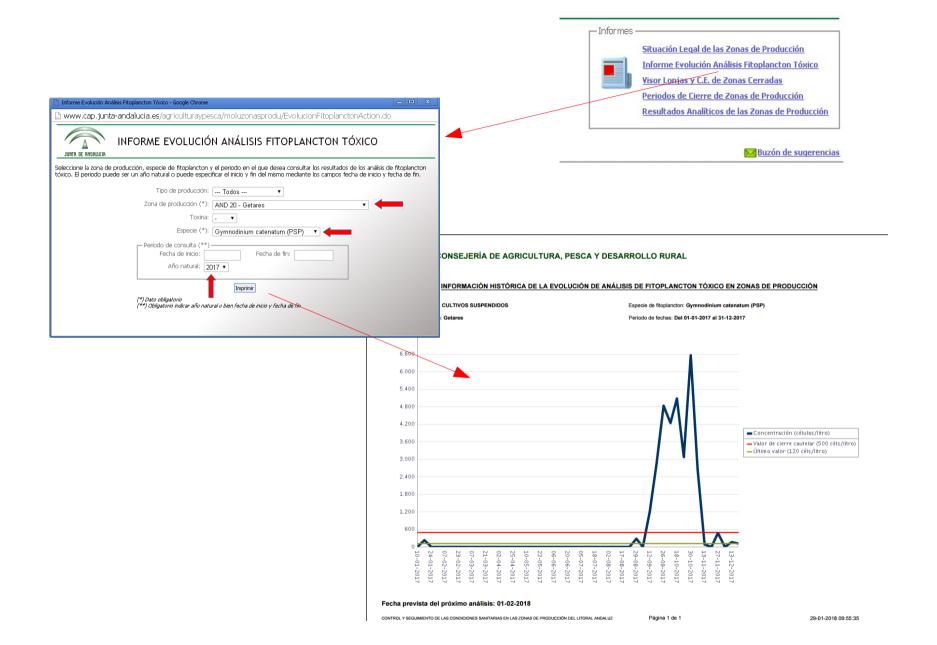
SITUACIÓN LEGAL DE ZONAS DE PRODUCCIÓN

Seleccionando en las listas desplegables puede afinar los resultados a la provincia, zona y/o especie concretas



Mostrar Imprimir

	Zonas de Producción	Es	pecies					
Código	Nombre	Nombre común	Nombre científico	Situación legal	1ª Causa	Fecha	2ª Causa	Fecha
AND 04	Isla Canela	Almeja babosa, Madrealmeja	Venerupis pullastra	ABIERTA		25/01/2018		
		Almeja chocha	Venerupis rhomboides	ABIERTA		25/01/2018		
		Almeja fina	Ruditapes decussatus	ABIERTA		25/01/2018		
		Berberecho	Cerastoderma edule	ABIERTA		25/01/2018		
		Busano	Phyllonotus trunculus	ABIERTA		25/01/2018		
		Cañailla	Bolinus brandaris	ABIERTA		25/01/2018		
		Chirla	Chamelea gallina	CERRADA	Medidas Técnicas	20/01/2018		
		Clica	Spisula solida	ABIERTA		25/01/2018		
		Coquina	Donax trunculus	ABIERTA		25/01/2018		
		Longueirón	Solen marginatus	ABIERTA		25/01/2018		
		Navaja/Muergo	Ensis spp	ABIERTA		25/01/2018		







Situación Legal de las Zonas de Producción
Informe Evolución Análisis Fitoplancton Tóxico
Visor Lonjas y C.E. de Zonas Cerradas
Periodos de Cierre de Zonas de Producción
Resultados Analíticos de las Zonas de Producción

Buzón de sugerencias

CONSULTAR ZONAS DE PRODUCCIÓN CERRADAS Seleccionar Zonas Zonas del Golfo de Cádiz y Huelva Río Guadiana Marismas del Guadiana-Carreras Río Carreras ✓ Isla Canela Barra del Terrón Marismas del Piedras Desembocadura del Piedras ✓ Punta Umbría ✓ Mazagón ✓ Matalascañas Zona Marítima de Doñana ✓ Estuario del Guadalquivir I ✓ Estuario del Guadalquivir II Río San Pedro Saco de la Bahía de Cádiz Sancti Petri Río Barbate ✓ Isla Cristina Bahía de Algeciras I Bahía de Algeciras II Río Palmones La Atunara San Roque Litoral Cádiz I ✓ Litoral Cádiz II ✓ Sotogrande La Línea

Limpiar selección

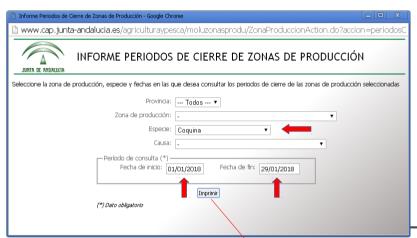
Detalle Zonas Cerradas



Última actualización: 29/1/2018 10:38

	Página actual: 1 de 4

ZONA	ESPECIE	MOTIVO CIERRE	F. NOTIFICACIÓN
3 Río Carreras	Almeja babosa, Madrealmeja	E. Coli	21/12/2017 10:02
	Pirulo	E. Coli	21/12/2017 10:02
	Almeja fina	E. Coli	21/12/2017 10:02
	Berberecho	E. Coli	21/12/2017 10:02
	Longueirón	E. Coli	21/12/2017 10:02
	Ostión	E. Coli	21/12/2017 10:02
	Navaja/Muergo	E. Coli	21/12/2017 10:02
	Almeja japonesa	E. Coli	21/12/2017 10:02
4 Isla Canela	Chirla	Medidas Técnicas	25/01/2018 11:34
5 Barra del Terrón	Chirla	Medidas Técnicas	22/01/2018 08:59
8 Punta Umbría	Chirla	Medidas Técnicas	22/01/2018 08:59
	Busano	Metales pesados	19/12/2017 09:19
9 Mazagón	Chirla	Medidas Técnicas	22/01/2018 08:59
10 Matalascañas	Chirla	Medidas Técnicas	22/01/2018 08:59
11 Zona Marítima de Doñana	Chirla	Medidas Técnicas	22/01/2018 08:59
12 Estuario del Guadalquivir I	Berberecho	Fitoplancton tóxico	01/07/2017 00:02
	Almeja fina	Fitoplancton tóxico	01/08/2017 00:27
	Longueirón	Fitoplancton tóxico	01/06/2017 00:38
	Ostión	Metales pesados	01/09/2017 00:43
	Almeja japonesa	Fitoplancton tóxico	24/08/2012 13:43



Informes

Situación Legal de las Zonas de Producción

Informe Evolución Análisis Fitoplancton Tóxico

Visor Lonjas y C.E. de Zonas Cerradas

Periodos de Cierre de Zonas de Producción

Resultados Apalíticos de las Zonas de Producción

Buzón de sugerencias



CONSEJERÍA DE AGRICULTURA, PESCA Y DESARROLLO RURAL

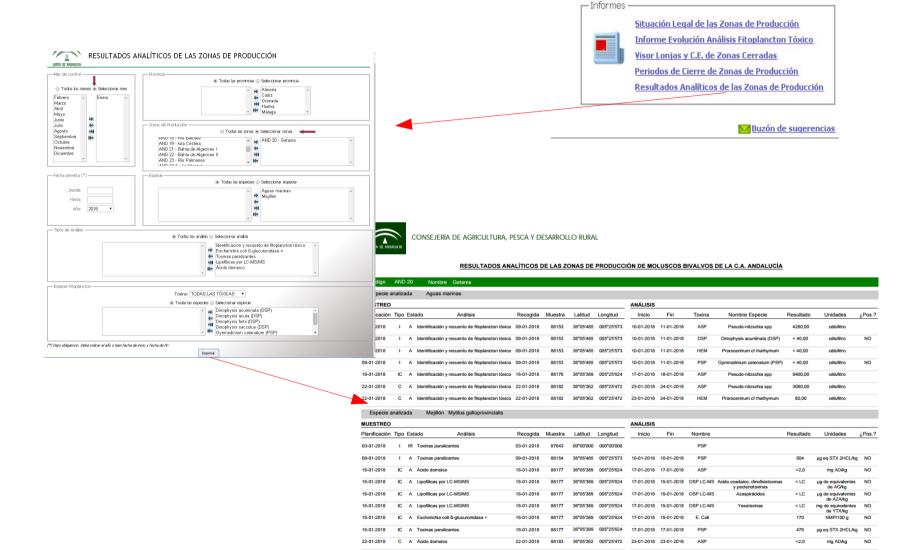
PERÍODOS DE CIERRE EN ZONAS DE PRODUCCIÓN

 Provincia:
 TODAS
 Causa:
 TODOS

 Zona:
 TODAS
 Fecha Desde:
 01-01-2018

 Especie:
 Coquina
 Fecha Hasta:
 29-01-2018

	Zonas de Producción	Especies		Sit			
Código	Nombre	Nombre común	Nombre científico	Causas Cierres	Fecha Inicio	Fecha Fin	Días
AND 04	Isla Canela	Coquina	Donax trunculus	E. Coli	19-01-2018	25-01-2018	6
AND 24-1	La Atunara	Coquina	Donax trunculus	PSP	01-01-2018	04-01-2018	3
	1.0000000000	Coquina	Donax trunculus	E. Coli	12-01-2018	18-01-2018	6
AND 27	Sabinillas	Coquina	Donax trunculus	E. Coli	16-01-2018	29-01-2018	14
AND 31	Cala del Moral	Coquina	Donax trunculus	Otras causas E. Coli	01-01-2018	10-01-2018	9
		Coquina	Donax trunculus	Otras causas	10-01-2018	10-01-2018	0
AND 32	Fuengirola	Coquina	Donax trunculus	E. Coli	01-01-2018	02-01-2018	1
AND 33	Torremolinos	Coquina	Donax trunculus	E. Coli	12-01-2018	19-01-2018	7
AND 39	Punta del Río	Coquina	Donax trunculus	Otras causas	01-01-2018	29-01-2018	29
AND 40	San Miguel de Cabo de Gata	Coquina	Donax trunculus	Otras causas	01-01-2018	29-01-2018	29
AND 41	San José	Coquina	Donax trunculus	Otras causas	01-01-2018	29-01-2018	29
AND 42	Los Escullos, Las Negras y Agua Amarga	Coquina	Donax trunculus	Otras causas	01-01-2018	29-01-2018	29
AND 43	Carboneras	Coquina	Donax trunculus	Otras causas	01-01-2018	29-01-2018	29
AND 44	Garrucha	Coquina	Donax trunculus	Otras causas	01-01-2018	29-01-2018	29



22-01-2018 C A Linofilicas por LC-MS/MS

Tipo Control: C=Control | I=Intensivo

Estados: PR=Pendiente de Recoger R=Recogida IR=Imposible Recoger A=Analizada IA=Imposible Analizar

LC=Límite de cuantificación

22-01-2018 88183 36*05'362 005*25'472 23-01-2018 24-01-2018 DSP I C-MS

Página 2 de 3

< LC µg de equivalentes NO de AZA/kg

29-01-2018 10:55:16

Azaspirácidos