

# SUPPLEMENTARY MATERIAL

DOI: 10.4081/ijfs.2024.12142

## Monitoring of bivalve mollusk harvesting areas: the relevance of *Salmonella* spp.

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**Key words:** shellfish, *Salmonella* spp, *Escherichia coli*, microbiological monitoring, shellfish harvesting area.

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**Supplementary Table 1. Monitoring results and prevalence of *Salmonella* spp. classified on an annual basis.**

Year	(-)	(+)	Sum	prev.
2015	974	18	992	0,018
2016	1112	18	1130	0,016
2017	1216	11	1227	0,009
2018	991	14	1005	0,014
2019	1179	13	1192	0,011
2020	1186	10	1196	0,008
2021	1228	7	1235	0,006
2022	1218	9	1227	0,007
<b>Sum</b>	<b>9104</b>	<b>100</b>	<b>9204</b>	<b>0,011</b>

(+), positive outcomes intended as *Salmonella* spp. detected; (-), negative outcomes intended as *Salmonella* spp. not found.

**Supplementary Table 2. Monitoring results and prevalence of *Salmonella* spp. classified on a monthly basis.**

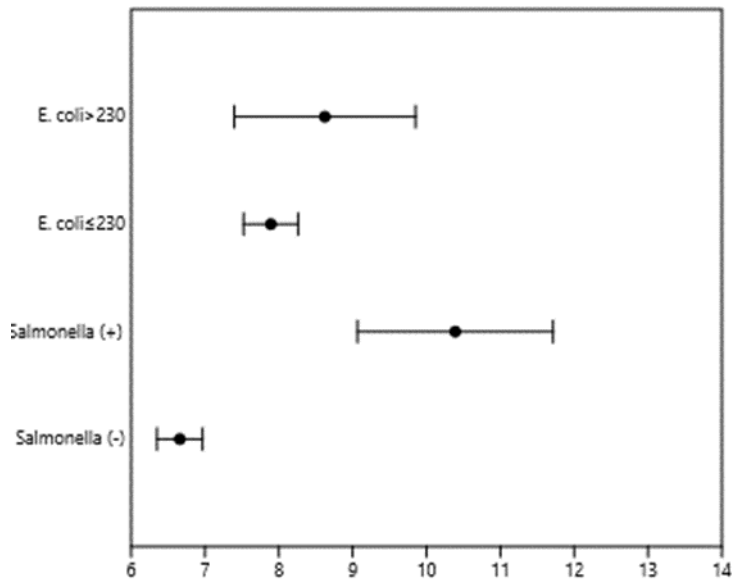
Month	(-)	(+)	Sum	prev.
January	618	4	622	0,006
February	696	8	704	0,011
March	786	10	796	0,013
April	689	5	694	0,007
May	840	12	852	0,014
June	877	25	902	0,028
July	914	5	919	0,005
August	902	6	908	0,007
September	769	6	775	0,008
October	786	3	789	0,004
November	703	8	711	0,011
December	524	8	532	0,015
<b>Sum</b>	<b>9104</b>	<b>100</b>	<b>9204</b>	<b>0,011</b>

(+), positive outcomes intended as *Salmonella* spp. detected; (-), negative outcomes intended as *Salmonella* spp. not found.

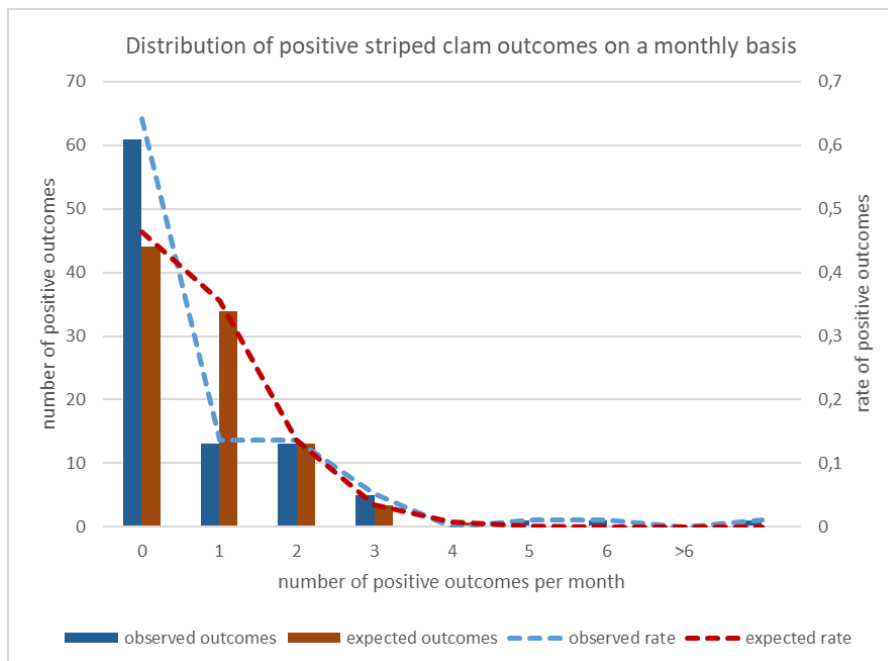
**Supplementary Table 3. Monitoring results and prevalence of *Salmonella* spp. classified on a district basis, for each of the species subjected to monitoring.**

District	Striped clam ( <i>Chamelea gallina</i> )			Mussel ( <i>Mytilus galloprovincialis</i> )			Oyster ( <i>Crassostrea gigas</i> , <i>Ostrea edulis</i> )			Gastropods ( <i>Nassarius mutabilis</i> , <i>Murex brandaris</i> )			Sum		
	(+)	(-)	prev.	(+)	(-)	prev.	(+)	(-)	prev.	(+)	(-)	prev.	(+)	(-)	prev.
PESARO-URBINO	35	2516	0,014	9	900	0,010	0	0	0,000	1	42	0,023	45	3458	0,013
ANCONA	10	1448	0,007	8	734	0,011	0	0	0,000	0	21	0,000	18	2203	0,008
MACERATA	13	681	0,019	4	305	0,013	0	70	0,000	0	14	0,000	17	1070	0,016
FERMO	11	840	0,013	5	274	0,018	0	0	0,000	0	14	0,000	16	1128	0,014
ASCOLI PICENO	4	940	0,004	0	284	0,000	0	0	0,000	0	21	0,000	4	1245	0,003
<b>Sum</b>	<b>73</b>	<b>6425</b>	<b>0,011</b>	<b>26</b>	<b>2497</b>	<b>0,010</b>	<b>0</b>	<b>70</b>	<b>0,000</b>	<b>1</b>	<b>112</b>	<b>0,009</b>	<b>100</b>	<b>9104</b>	<b>0,011</b>

(+), positive outcomes intended as *Salmonella* spp. detected; (-), negative outcomes intended as *Salmonella* spp. not found.

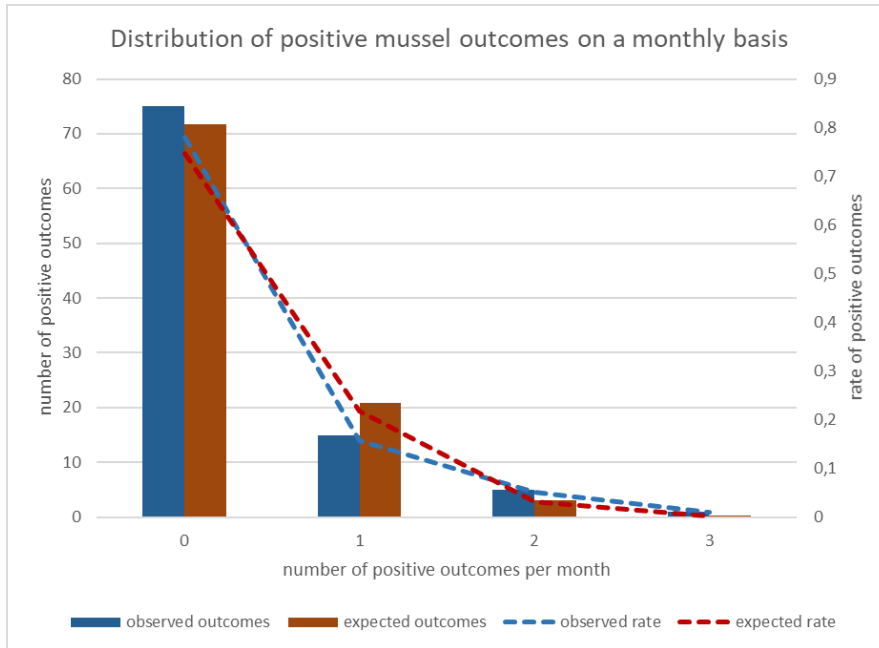


**Supplementary Figure 1. Graphic representation, with the Mean and Whiskers method, of the distributions relating to the issuing report time for *E. coli* and *Salmonella* spp. (95% of the data are included within the "whiskers"). The data on the abscissa are expressed in days.**

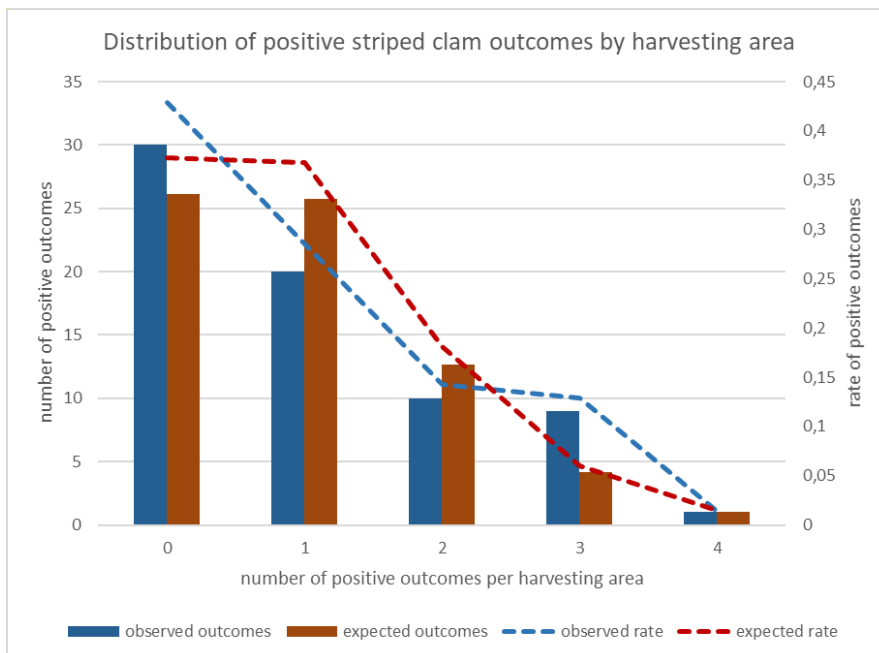


**Supplementary Figure 2. Trend of positive striped clam outcomes, classified on a monthly basis, compared to those expected in the hypothesis of random distribution.**

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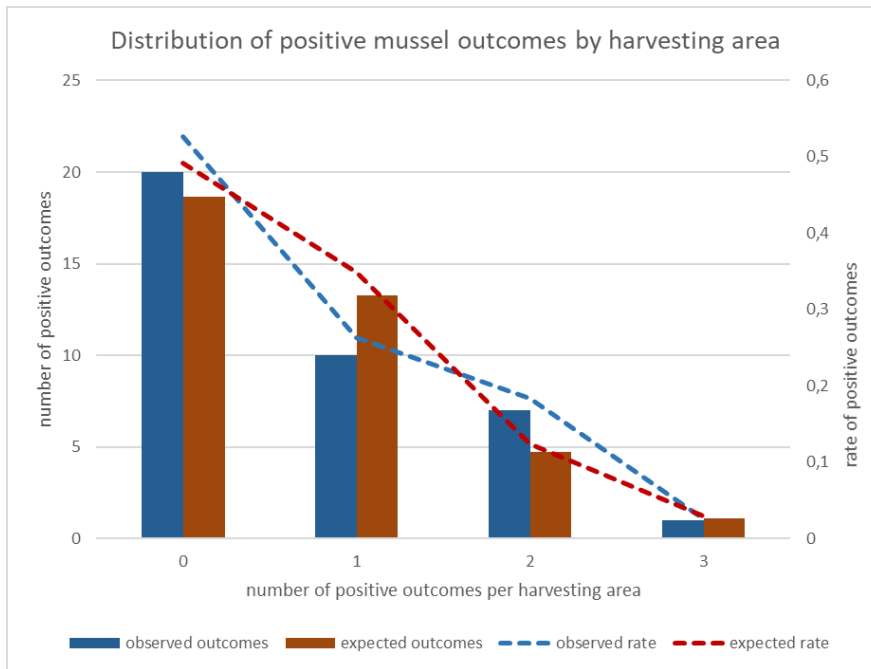


**Supplementary Figure 3. Trend of positive mussel outcomes, classified on a monthly basis, compared to those expected in the hypothesis of random distribution.**



**Supplementary Figure 4. Trend of positive striped clam outcomes, classified by harvesting area, compared with those expected in the hypothesis of random distribution.**

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**Supplementary Figure 5. Trend of positive mussel outcomes, classified by harvesting area, compared with those expected in the hypothesis of random distribution.**