Report

Created with SpatialEpiApp

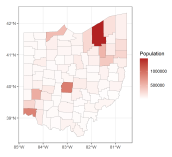
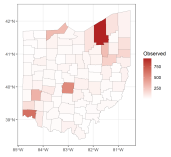
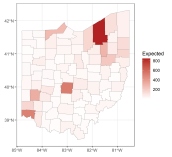
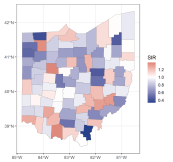
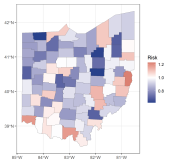
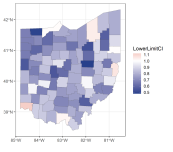
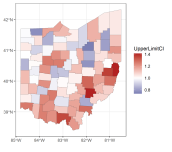
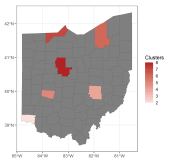
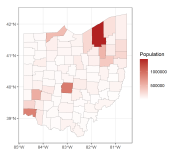
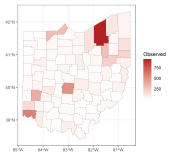
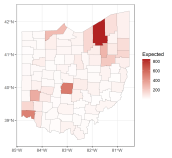
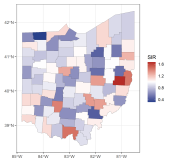
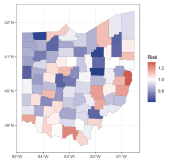
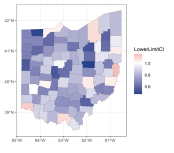
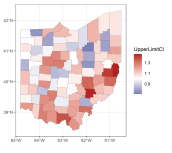
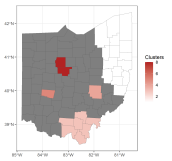
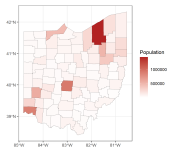
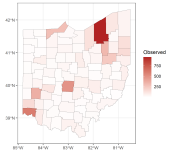
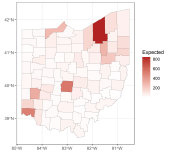
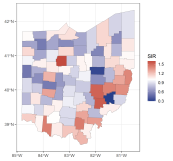
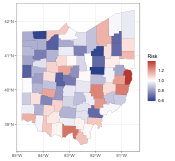
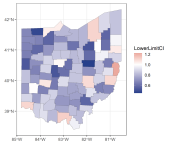
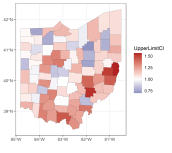
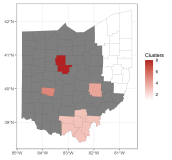
- Date range: 1985 to 1988
- Type of analysis: Spatio-Temporal
- Temporal unit: Year

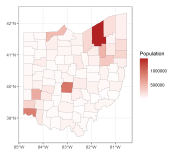
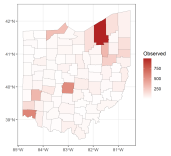
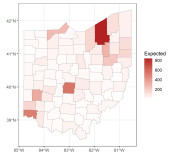
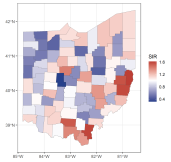
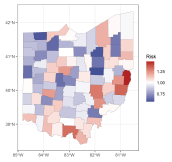
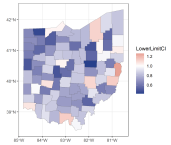
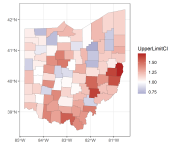
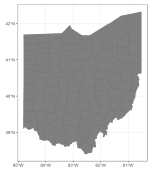
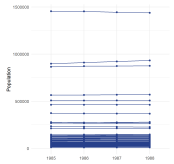
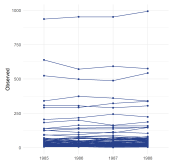
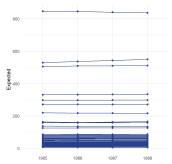
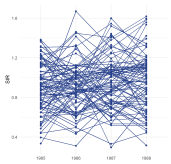
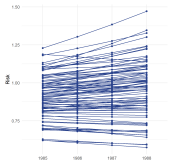
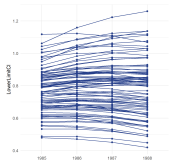
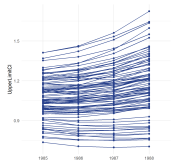
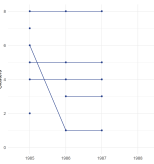
```
datosP<-params$datosP

fechasformatocorrecto<-params$fechasformatocorrecto
vecTimes<-unique(datosP$time)
n<-length(vecTimes)
#vecVbles<-c("Population","Observed","Expected","SIR")
#vecVbles<-c("Population","Observed","Expected","SIR","Risk","LowerLimitCI","UpperLimitCI")
vecVblesPintar<-params$vecVblesPintar
vecVblesTabla<-params$vecVblesTabla
tablaClusters<-params$tablaClusters

vecVblesPintarprimeralinea<-params$vecVblesPintar
vecVblesTablaprimeralinea<-params$vecVblesTabla

indl<-which(vecVblesPintarprimeralinea=="LowerLimitCI")
if(length(indl)>0){vecVblesPintarprimeralinea[indl]<-"2.5 percentile"}
indl<-which(vecVblesPintarprimeralinea=="UpperLimitCI")
if(length(indl)>0){vecVblesPintarprimeralinea[indl]<-"97.5 percentile"}
indl<-which(vecVblesTablaprimeralinea=="LowerLimitCI")
if(length(indl)>0){vecVblesTablaprimeralinea[indl]<-"2.5 percentile"}
indl<-which(vecVblesTablaprimeralinea=="UpperLimitCI")
if(length(indl)>0){vecVblesTablaprimeralinea[indl]<-"97.5 percentile"}

plPintar<-paste("c",paste(rep("c",length(vecVblesPintar)),collapse=""))
plTabla<-paste("l",paste(rep("r",length(vecVblesTabla)),collapse=""))
primeralineaPintar<-paste("&",paste(vecVblesPintarprimeralinea,collapse="&"),"\\\\")
primeralineaTabla<-paste("&",paste(vecVblesTablaprimeralinea,collapse="&"),"\\\\")

fnPaste<-function(s){
p<-paste(paste(s , collapse="&"),"\\\\")
```

```
return(p)
}

sizemaps<-52
if(length(vecVblesPintar)==5){
 sizemaps<-40
}
if(length(vecVblesPintar)==6){
 sizemaps<-31
}
if(length(vecVblesPintar)==7){
 sizemaps<-26
}
if(length(vecVblesPintar)==8){
 sizemaps<-22
}
#sizemaps<-60-7*length(vecVblesPintar)
```

```
# Maps

if(length(vecVblesPintar)>0){

cat(
  sprintf("\\begin{longtable}{%s}",plPintar),
  sprintf(primeralineaPintar),
  sprintf("\\hline"),
  sprintf("&\\\\\"),
  sprintf("\\endhead"))



for(i in 1:n){
f<-paste(vecTimes[i])
fcorrecto<-fechasformatocorrecto[i]
vecf<-paste(getwd(), "/plots/Map",vecTimes[i],vecVblesPintar,".png",sep="")
#cat(sprintf("\\raisebox{2cm}{%s}", paste(fcorrecto,f)))
cat(sprintf("\\raisebox{1.5cm}{%s}", paste(fcorrecto)))
for(j in 1:length(vecVblesPintar)){
```

```
cat(sprintf("&\\includegraphics[width=%dmm]{%s}", sizemaps, vecf[j]))
}
cat(sprintf("\\\\[.5cm]"))
}
veclastf<-paste(getwd(), "/plots/TemporalTrend",vecVblesPintar,".png",sep="")
for(j in 1:length(vecVblesPintar)){
cat(sprintf("&\\includegraphics[width=%dmm]{%s}", sizemaps, veclastf[j]))
}
cat(sprintf("\\\\"))
cat(sprintf("\\end{longtable}"))

}
```

	Population	Observed	Expected	SIR	Risk	2.5 percentile	97.5 percentile	Clusters
1985								
1986								
1987								

	Population	Observed	Expected	SIR	Risk	2.5 percentile	97.5 percentile	Clusters
1988								
								

Summary data

	Population	Observed	Expected	SIR	Risk	2.5 percentile	97.5 percentile
1985 to 1988							
Min.	11272	2	6.73322625405604	0.296140506227404	0.575155977537473	0.419774216693343	0.698253730537896
1st Qu.	33102	16	19.7318270737803	0.743258907225568	0.83302138153091	0.67278189251076	0.994116032520795
Median	54348.5	28	32.1771818693045	0.930808786806923	0.946268179253783	0.797552007008453	1.10680855082763
Mean	122287.443181818	72.1420454545455	72.1420454545455	0.931397948434054	0.935801606761005	0.787685659220597	1.1057108010498
3rd Qu.	107592.5	56.5	64.0760972850941	1.10300922812533	1.04604768077969	0.880063872120818	1.21911502078034
Max.	1454155	993	846.199673679593	1.66862336986462	1.47132058564459	1.25966439165931	1.72366853495168

```
# Table summary data for each date

if(length(vecVblesTabla)>0){

cat(
  sprintf("\\begin{longtable}{%s}",plTabla),
  sprintf(primeralineaTabla),
  sprintf("\\hline"),
  sprintf("\\endhead"))




for(i in 1:n){
f<-paste(vecTimes[i])
fcorrecto<-fechasformatocorrecto[i]
datostime<-datosP[which(datosP$time==f),vecVblesTabla]


if(length(vecVblesTabla)>1){
s<-sapply(datostime, summary)
s<-cbind(rownames(s),matrix(s,nrow=nrow(s)))
}else{
s<-summary(datostime)
s<-cbind(names(s),s)
}
```

```
a<-apply(s,1,fnPaste)


cat(
  sprintf(as.character(fcorrecto)),
  sprintf("\\\\[.1cm]"),
  sprintf(a),
  sprintf("[.2cm]")
  )
}


cat(sprintf("\\end{longtable}"))

}
```

	Population	Observed	Expected	SIR	Risk	2.5 percentile	97.5 percentile
1985							
Min.	11435	6	6.83579649289265	0.334507914142587	0.621355588992226	0.479250996899003	0.736450101280046
1st Qu.	32936.75	17	19.6745500016105	0.711975146332762	0.826866748847361	0.675723566143241	0.985346224822609
Median	54348.5	26	32.1771818693045	0.919644088436455	0.917305450831221	0.776181634097437	1.06028038494496
Mean	122061.136363636	70.9772727272727	71.995054095849	0.903324825337779	0.914481408456384	0.773170417177217	1.07472555454454
3rd Qu.	104448.5	56	62.5137912969326	1.10351080626705	0.999843418443972	0.855281576964656	1.17843816518245
Max.	1454155	937	846.199673679593	1.3825315165666	1.22887679500816	1.11803949254302	1.41191533337268
1986							
Min.	11272	6	6.73322625405604	0.311830465236511	0.604773908625981	0.471355867021427	0.706357398803096
1st Qu.	32891	15.75	19.6708904612285	0.768114669990689	0.831481585121348	0.681045926011725	0.978350844816441
Median	54390.5	27	32.2206447174887	0.895464130428486	0.934727236106049	0.798364469294605	1.07251434085673
Mean	122023.090909091	70.875	71.9806575783078	0.909933296439992	0.927723749345188	0.794096121023442	1.07911277872812
3rd Qu.	105677.5	50	63.2128197924086	1.04251112785378	1.02971689364419	0.879909828420321	1.19914029129726
Max.	1453242	953	845.761343007908	1.66862336986462	1.30347684019554	1.15883761962483	1.46237751264861
1987							
Min.	11301	2	6.75355095957126	0.296140506227404	0.58933669190259	0.451013429261049	0.698253730537896
1st Qu.	33152.75	17	19.8157149799075	0.759382049037192	0.839941378834507	0.670952351812088	0.993830566978551
Median	54687	28	32.3996360942348	0.959373841876793	0.955655782941776	0.815142572995436	1.09928144204368
Mean	122443.693181818	72.5568181818182	72.2415330879147	0.95489149632338	0.942407406505853	0.797569722035068	1.10828151679245

	Population	Observed	Expected	SIR	Risk	2.5 percentile	97.5 percentile
3rd Qu.	107592.5	60.25	64.1733841375541	1.10774301060939	1.06164215029983	0.887114348436737	1.22974374998368
Max.	1444257	952	840.575910342608	1.59891511152189	1.3840787290378	1.22304147294933	1.56146017047301
1988							
Min.	11276	4	6.73680339180383	0.316014381124612	0.575155977537473	0.419774216693343	0.704731535965003
1st Qu.	33353.25	16.75	19.896366632091	0.740179828333259	0.848535511797738	0.655668208221573	1.01817670206625
Median	54787	29.5	32.4633987616188	0.992667022866814	0.968292252910145	0.811464099084057	1.15056195404576
Mean	122621.852272727	74.1590909090909	72.3509370561102	0.957442175635065	0.958593862736593	0.785906376646661	1.1607233541341
3rd Qu.	107720.75	59.25	63.8998692449171	1.12693896875363	1.09013545300066	0.881209228607768	1.29427222286045
Max.	1438103	993	836.898769794294	1.61785818629552	1.47132058564459	1.25966439165931	1.72366853495168

Clusters

```
#Table clusters

if(!is.null(tablaClusters)){


#All years
s<-tablaClusters
a<-apply(s,1,fnPaste)


plTablaClusters<-paste(paste(rep("r",ncol(tablaClusters)),collapse=""))
plTablaClusters<-paste("p{1cm}",paste(rep("p{2cm}",ncol(tablaClusters)-2),collapse=""),"p{6cm}")
primeralineaTablaClusters<-paste(paste(names(tablaClusters),collapse="&"),"\\\\")


cat(
  sprintf("\\begin{longtable}{%s}",plTablaClusters),
  sprintf(primeralineaTablaClusters),
  sprintf("\\hline"),
  sprintf("\\endhead"))
cat(
  #sprintf("{%s}",fcorrecto),
  sprintf("\\\\[.1cm]"),
  sprintf(a),
  sprintf("[.2cm]")
  )


cat(sprintf("\\end{longtable}"))
}
```

Cluster	Central area	No. areas	Start date	End date	Risk in / Risk out	LLR	p-value	Areas

Cluster	Central area	No. areas	Start date	End date	Risk in / Risk out	LLR	p-value	Areas
1	Mahoning	4	1987	1988	1.10	15	25.101532	Portage, Harrison, Lake, Cuyahoga, Carroll, Ashtabula, Belmont, Mahoning, Trumbull, Tuscarawas, Summit, Columbiana, Geauga, Jefferson, Stark
2	Hamilton	2	1985	1986	1.19	1	18.413505	Hamilton
3	Lawrence	4	1986	1988	1.26	7	9.734536	Gallia, Vinton, Jackson, Pike, Meigs, Lawrence, Scioto
4	Muskingum	4	1985	1988	1.43	1	8.178653	Muskingum
5	Clark	4	1985	1988	1.26	1	5.413516	Clark
6	Cuyahoga	1	1985	1986	1.11	1	5.027418	Cuyahoga
7	Lucas	2	1985	1986	1.13	1	4.401300	Lucas
8	Wyandot	4	1985	1988	1.27	2	3.568187	Wyandot, Marion