

Rio Grande do Sul Flood Situation Report for May 10, 2024 at 20:00 GMT-3

Data last updated on May 13, 2024 at 01:00 GMT-3

01 Disaster

02 Movement

03 Vulnerability

Summary

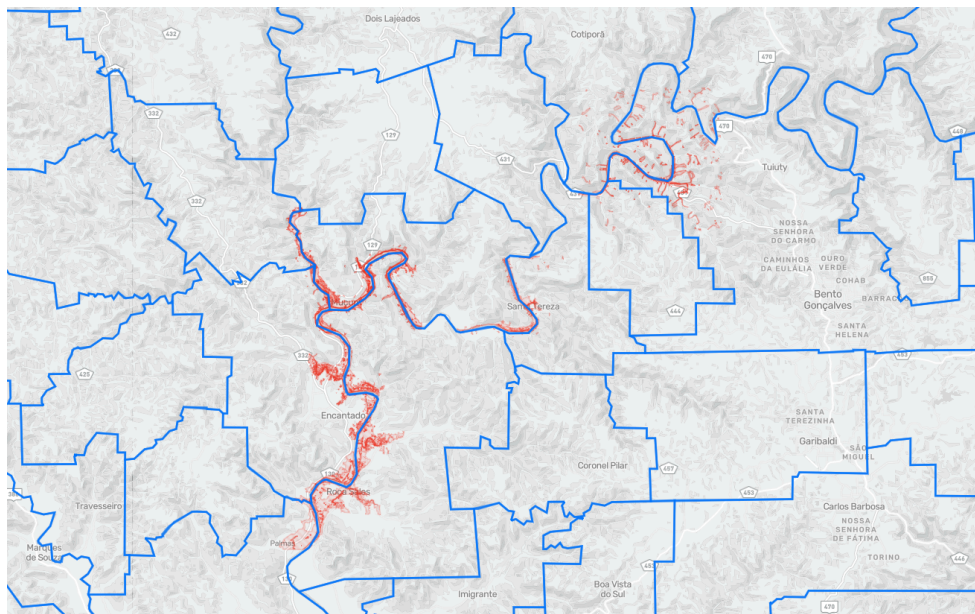
Record levels of flooding, driven by heavy rainfall and storms, continues to severely affect the state of Rio Grande do Sul in southern Brazil. As of May 13th, the death toll from these storms is 143 and over 327,000 people have been displaced from their homes.

Significant population declines and returns have been detected across 54 of 105 districts within and nearby the areas of greatest flooding impact, based on data from Meta. Key mobility trends across the region are detailed in the "Movement" section of this report. Data from the Facebook platform on population is based on a high sample size (~17%) of the total population in Rio Grande do Sul. Baseline district level Facebook population is highly correlated with Brazil's census population, with a R2 value of 0.98.

Remote sensing from EU Copernicus shows areas of riverine flooding across Rio Grande do Sul. Image data has been merged into a single time-frame for the purpose of understanding overall flooding impacts across the entire duration of these events.

DISASTER

Flood Perimeter as of May 10, 2024 at 20:00 GMT-3*



 Flood perimeter

 New flood perimeter growth

***Note:** The flood perimeter data was last updated on May 13, 2024 at 01:00 GMT-3. It may not represent the perimeter's current status as of May 10, 2024 at 20:00 GMT-3

Notes

Across the Rio Grande do Sul state, overall population measured by the Facebook application as of the evening of May 10th is up 12%, which reflects increased overall rate of mobility across the region.

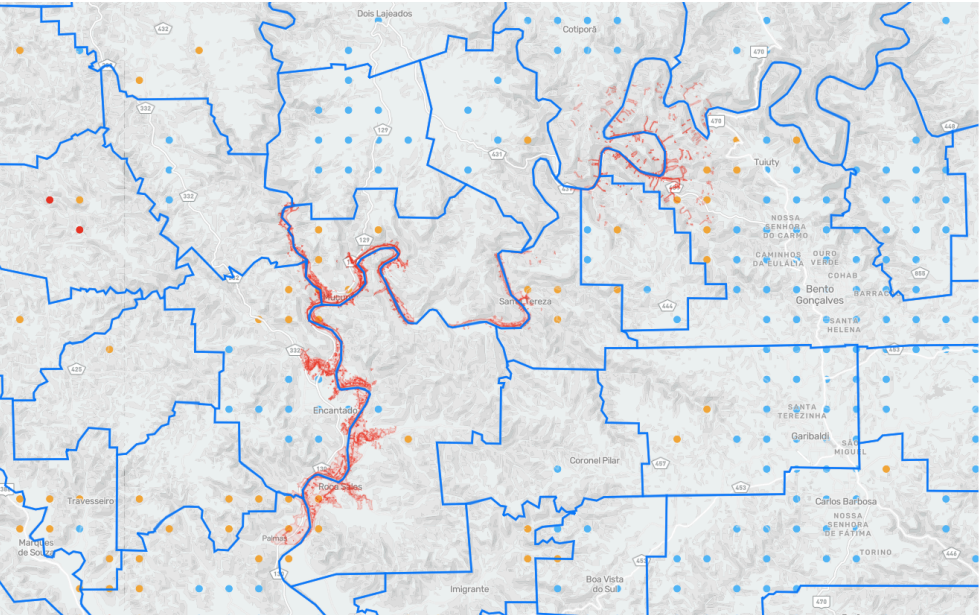
The greatest areas of decrease by total count of measured population by district occurred to the north of Porto Alegre in the cities of Canoas (-3%) and San Leopoldo (-3%), both of which saw declines of Facebook users over 2000. Porto Alegre itself saw significant rates of increase (+11%) over 22,000 users.

The largest rate of percentage decrease in population occurred in the area of Eldorado do Sul, which lies to the west of Porto Alegre. On May 3rd, Eldorado do Sul saw a nearly 70% decrease in measured population which has remained constant +/- 10% up through May 12th.

These areas of greatest flooding impact and population movement tend to be relatively younger (11% above age 60) than more rural areas nearby which saw stable or increasing populations. Porto Alegre's population is slightly older than the state as a whole at 15% over age 60.

MOVEMENT

% Pop. Density Change on May 10, 2024 at 20:00 GMT-3



Facebook Mobility Data

- 50%+
- 50 to -10%
- 10 to 50%
- 50%+

% Pop. Density Change on May 10, 2024 at 20:00 GMT-3 with place selections.

Population Density on May 10, 2024 at 20:00 GMT-3

Location	Baseline Pop.	Current Crisis Pop.	Pop. Density vs. Baseline ▼	Confidence Level
Rio Grande Do Sul, Brazil	1789953	2012802	12%	N/A
Portão, Brazil	7405	9561	29%	N/A
Sapucaia Do Sul, Brazil	22913	29161	27%	N/A
Estância Velha, Brazil	7021	8735	24%	N/A
Vale Verde, Brazil	267	329	23%	N/A
Capela De Santana, Brazil	2648	3244	23%	N/A
Butiá, Brazil	3293	4010	22%	N/A
São Sebastião Do Caí, Brazil	3818	4632	21%	N/A
Esteio, Brazil	8728	10564	21%	N/A
Novo Hamburgo, Brazil	39130	47124	20%	N/A
São Jerônimo, Brazil	3710	4468	20%	N/A
São José Do Hortêncio, Brazil	656	784	20%	N/A
Ivoti, Brazil	3873	4605	19%	N/A
Cotiporã, Brazil	462	548	19%	N/A
Montenegro, Brazil	12487	14792	18%	N/A
Charqueadas, Brazil	4853	5748	18%	N/A
Vespasiano Corrêa, Brazil	235	278	18%	N/A
Harmonia, Brazil	970	1144	18%	N/A
Salvador Do Sul, Brazil	1272	1499	18%	N/A
Veranópolis, Brazil	4365	5128	17%	N/A
Bento Gonçalves, Brazil	20739	24350	17%	N/A
São Pedro Da Serra, Brazil	662	776	17%	N/A
Taquari, Brazil	4031	4705	17%	N/A
Presidente Lucena, Brazil	537	625	16%	N/A
Fazenda Vilanova, Brazil	810	940	16%	N/A
Caxias Do Sul, Brazil	90952	105532	16%	N/A
São José Do Sul, Brazil	486	564	16%	N/A
São Marcos, Brazil	3695	4277	16%	N/A
Farroupilha, Brazil	14106	16312	16%	N/A
Venâncio Aires, Brazil	13005	15034	16%	N/A
Minas Do Leão, Brazil	1296	1497	16%	N/A
Lindolfo Collor, Brazil	870	1005	16%	N/A
Pinto Bandeira, Brazil	837	966	15%	N/A
Teutônia, Brazil	5602	6462	15%	N/A
Santa Cruz Do Sul, Brazil	24560	28303	15%	N/A
Garibaldi, Brazil	7119	8204	15%	N/A
Bom Princípio, Brazil	2483	2860	15%	N/A
Ilópolis, Brazil	734	844	15%	N/A
Picada Café, Brazil	944	1084	15%	N/A
Westfália, Brazil	714	818	15%	N/A
Tupandi, Brazil	939	1074	14%	N/A

Location	Baseline Pop.	Current Crisis Pop.	Pop. Density vs. Baseline ▼	Confidence Level
Dois Lajeados, Brazil	467	532	14%	N/A
Feliz, Brazil	2687	3060	14%	N/A
Maratá, Brazil	477	541	14%	N/A
Arvorezinha, Brazil	1524	1724	13%	N/A
Passo Do Sobrado, Brazil	1003	1131	13%	N/A
Barão, Brazil	1392	1570	13%	N/A
São Vendelino, Brazil	371	418	13%	N/A
Nova Petrópolis, Brazil	4295	4841	13%	N/A
Lajeado, Brazil	15624	17561	12%	N/A
Flores Da Cunha, Brazil	6146	6888	12%	N/A
Paverama, Brazil	1520	1700	12%	N/A
Barros Cassal, Brazil	855	955	12%	N/A
Vale Real, Brazil	899	1004	12%	N/A
Triunfo, Brazil	5681	6339	12%	N/A
São José Do Herval, Brazil	262	292	11%	N/A
Carlos Barbosa, Brazil	7448	8291	11%	N/A
Nova Pádua, Brazil	358	398	11%	N/A
Brochier, Brazil	772	858	11%	N/A
Boa Vista Do Sul, Brazil	442	491	11%	N/A
Rio Pardo, Brazil	4923	5462	11%	N/A
Porto Alegre, Brazil	206224	228311	11%	N/A
Mato Leitão, Brazil	799	883	10%	N/A
Linha Nova, Brazil	362	400	10%	N/A
Fontoura Xavier, Brazil	1200	1324	10%	N/A
Tabaí, Brazil	690	760	10%	N/A
Encantado, Brazil	3775	4099	9%	N/A
Alto Feliz, Brazil	660	716	9%	N/A
Poço Das Antas, Brazil	345	374	8%	N/A
Santa Clara Do Sul, Brazil	1087	1177	8%	N/A
Coronel Pilar, Brazil	71	77	8%	N/A
Bom Retiro Do Sul, Brazil	1818	1955	8%	N/A
Monte Belo Do Sul, Brazil	336	360	7%	N/A
Doutor Ricardo, Brazil	169	180	7%	N/A
Anta Gorda, Brazil	817	860	5%	N/A
São Valentim Do Sul, Brazil	273	285	4%	N/A
Boqueirão Do Leão, Brazil	675	705	4%	N/A
Nova Roma Do Sul, Brazil	464	484	4%	N/A
Cruzeiro Do Sul, Brazil	2904	3018	4%	N/A
Sério, Brazil	132	136	3%	N/A
Arroio Do Meio, Brazil	4184	4271	2%	N/A
Putinga, Brazil	422	430	2%	N/A
Progresso, Brazil	481	490	2%	N/A
Estrela, Brazil	6701	6713	0%	N/A

Location	Baseline Pop.	Current Crisis Pop.	Pop. Density vs. Baseline ▼	Confidence Level
Nova Bréscia, Brazil	461	460	0%	N/A
Canoas, Brazil	60304	58736	−3%	N/A
São Leopoldo, Brazil	38975	37701	−3%	N/A
Capitão, Brazil	424	410	−3%	N/A
Nova Santa Rita, Brazil	6842	6603	−4%	N/A
Canudos Do Vale, Brazil	116	112	−4%	N/A
Pareci Novo, Brazil	1177	1127	−4%	N/A
Roca Sales, Brazil	2125	2030	−4%	N/A
General Câmara, Brazil	1306	1237	−5%	N/A
Imigrante, Brazil	431	406	−6%	N/A
Coqueiro Baixo, Brazil	64	60	−6%	N/A
Pouso Novo, Brazil	132	123	−7%	N/A
Forquetinha, Brazil	516	478	−7%	N/A
Colinas, Brazil	674	610	−9%	N/A
Santa Tereza, Brazil	138	124	−10%	N/A
Marques De Souza, Brazil	495	427	−14%	N/A
Travesseiro, Brazil	281	238	−15%	N/A
Muçum, Brazil	410	297	−28%	N/A
Relvado, Brazil	113	57	−49%	N/A
Eldorado Do Sul, Brazil	5030	1046	−79%	N/A

% Pop. Density Change Over Time

+75%

0%
-75%

30 3 6 9
Sério, Brazil

30 3 6 9
Forquethinha, Brazil

30 3 6 9
Santa Clara do Sul, Brazil

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Cruzeiro do Sul, Brazil

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Venâncio Aires, Brazil

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Mato Leitão, Brazil

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Santa Cruz do Sul, Brazil

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Lajeado, Brazil

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Capitão, Brazil

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Barros Cassal, Brazil

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Ivoti, Brazil

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São José do Hortêncio,
Brazil

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Presidente Lucena, Brazil

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Nova Petrópolis, Brazil

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Picada Café, Brazil

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Linha Nova, Brazil

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Feliz, Brazil

30 3 6 9
Vale Real, Brazil

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Alto Feliz, Brazil

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São Vendelino, Brazil

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Boa Vista do Sul, Brazil

30 3 6 9
Barão, Brazil

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São Pedro da Serra, Brazil

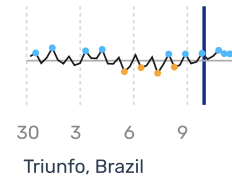
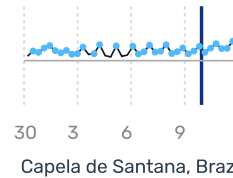
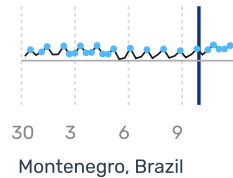
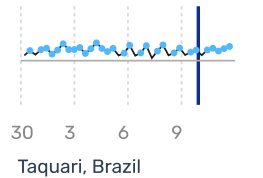
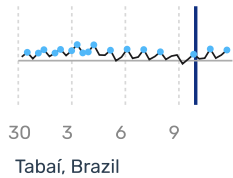
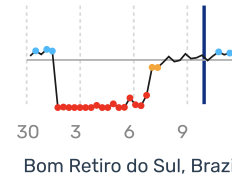
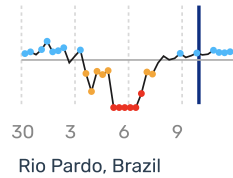
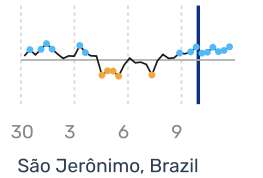
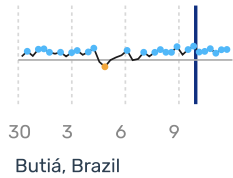
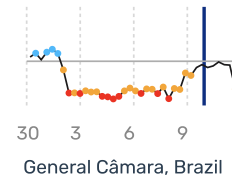
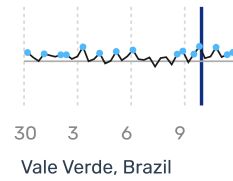
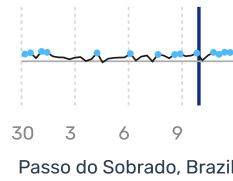
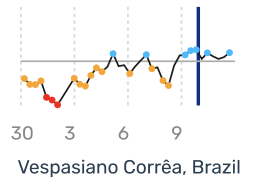
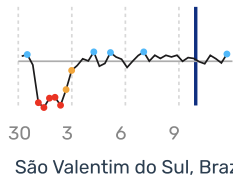
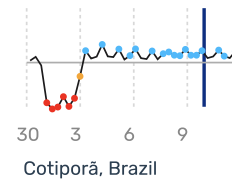
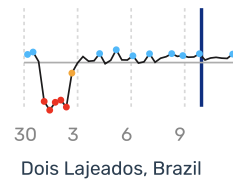
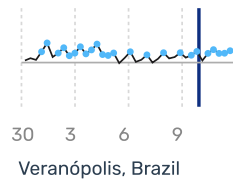
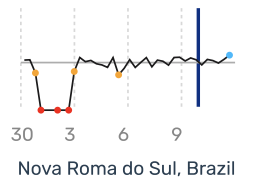
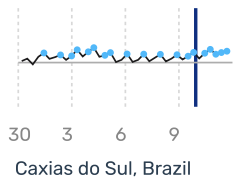
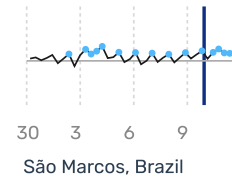
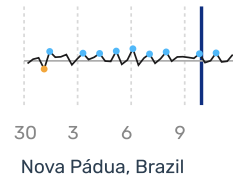
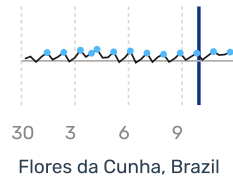
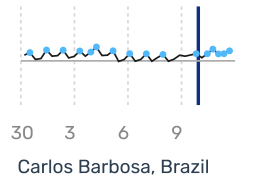
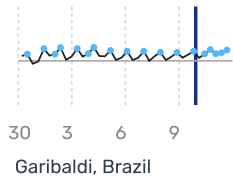
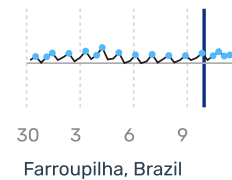
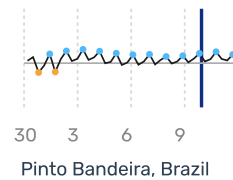
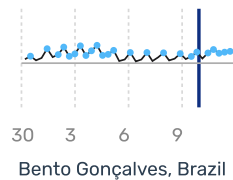
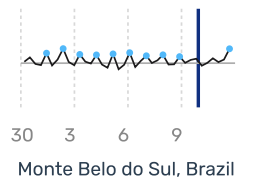
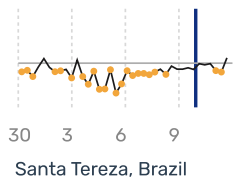
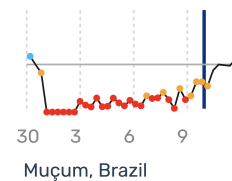
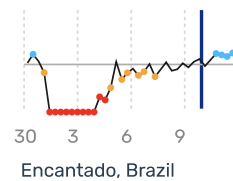
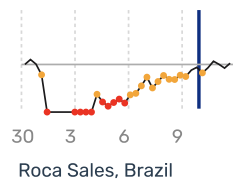
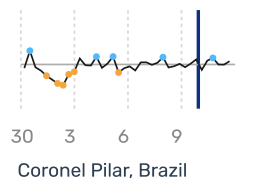
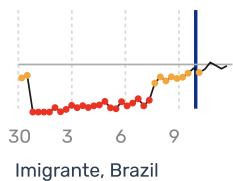
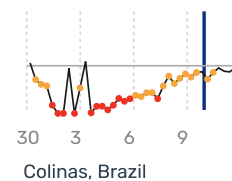
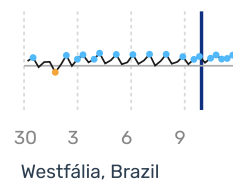
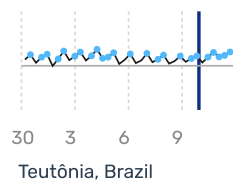
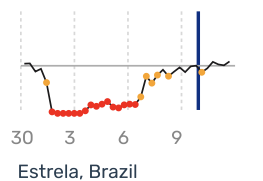
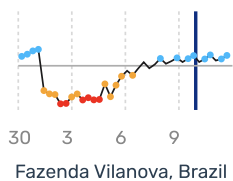
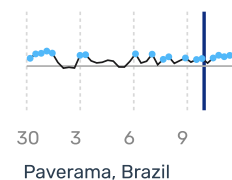
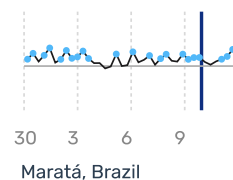
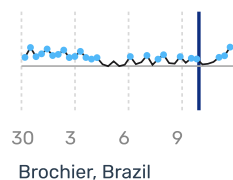
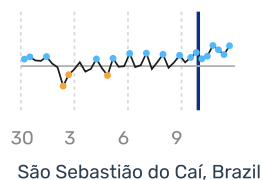
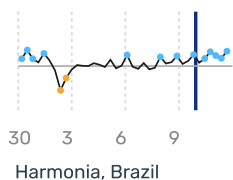
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Poço das Antas, Brazil

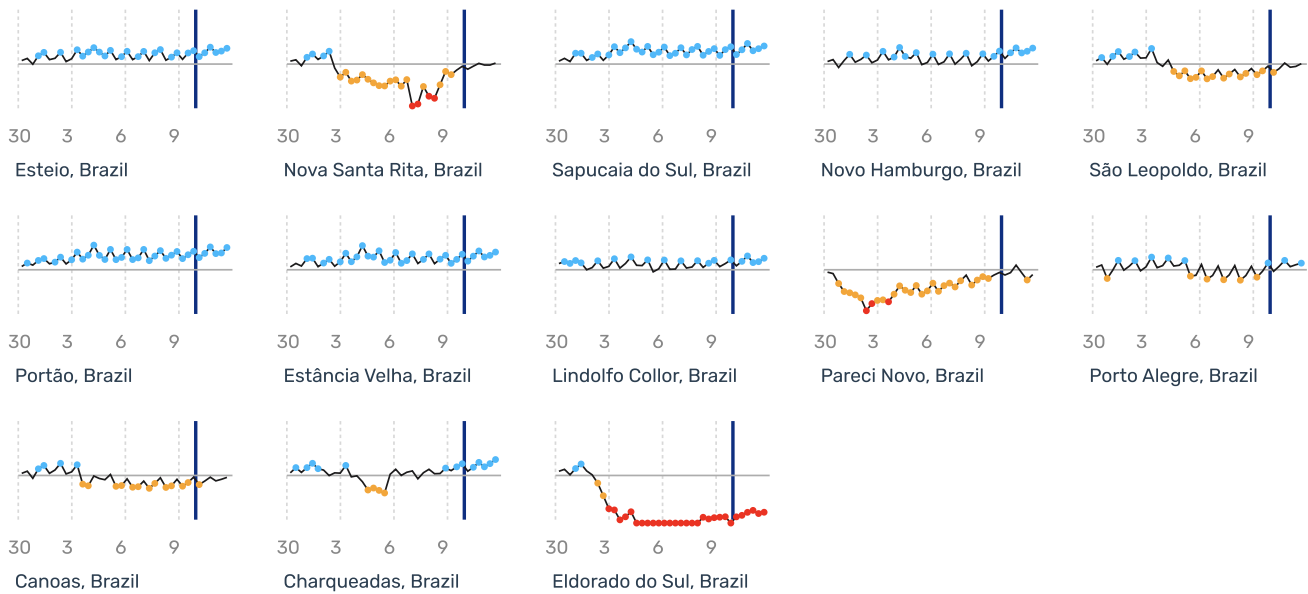
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Tupandi, Brazil

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Bom Princípio, Brazil

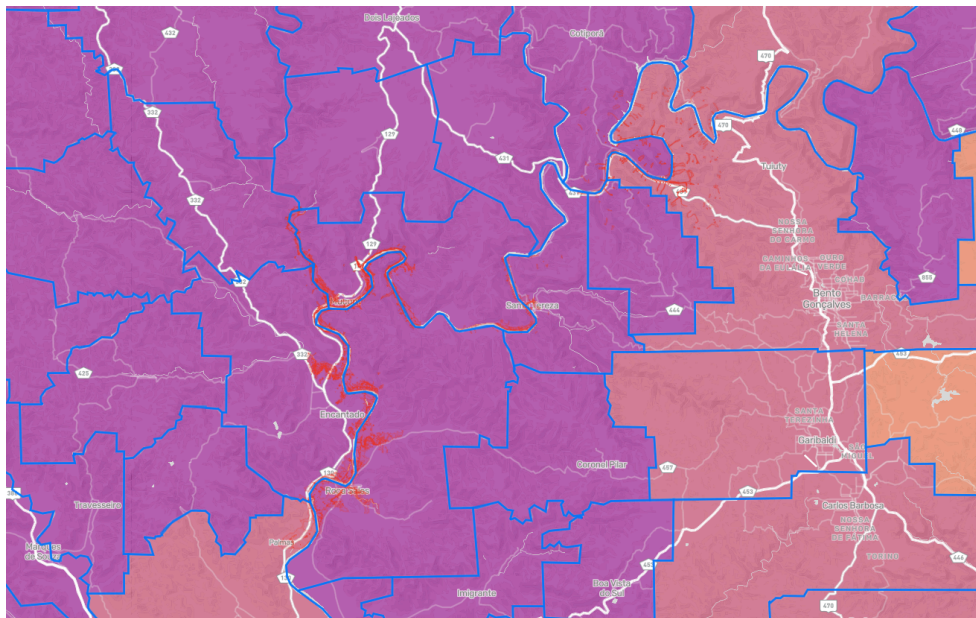
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São José do Sul, Brazil



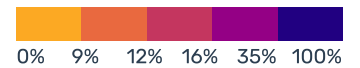


VULNERABILITY

Pop. > 60 yrs on May 10, 2024 at 20:00 GMT-3



% of Pop. > 60 yrs



Meta High Resolution
Population Density

Demographics

Location	Total Pop.	Pop. > 60 yrs	% of Pop. > 60 yrs ▼	% of Women Pop.	% of Children Under 5	% of Pop. Below Poverty Level	Num. Customers Without Power	DME Users	DME Users / 100K Pop.
Rio Grande Do Sul, Brazil	10,956,416	1,477,380	13%	N/A	N/A	N/A	N/A	N/A	N/A
Coronel Pilar, Brazil	20	6	30%	N/A	N/A	N/A	N/A	N/A	N/A
Westfália, Brazil	11	3	27%	N/A	N/A	N/A	N/A	N/A	N/A
Santa Tereza, Brazil	1,669	451	27%	N/A	N/A	N/A	N/A	N/A	N/A
Relvado, Brazil	1,978	515	26%	N/A	N/A	N/A	N/A	N/A	N/A
Coqueiro Baixo, Brazil	19	5	26%	N/A	N/A	N/A	N/A	N/A	N/A
Colinas, Brazil	2,350	595	25%	N/A	N/A	N/A	N/A	N/A	N/A
Travesseiro, Brazil	2,246	540	24%	N/A	N/A	N/A	N/A	N/A	N/A
Imigrante, Brazil	2,315	558	24%	N/A	N/A	N/A	N/A	N/A	N/A
Vespasiano Corrêa, Brazil	1,730	423	24%	N/A	N/A	N/A	N/A	N/A	N/A
Marques De Souza, Brazil	3,811	884	23%	N/A	N/A	N/A	N/A	N/A	N/A
Boa Vista Do Sul, Brazil	2,644	595	23%	N/A	N/A	N/A	N/A	N/A	N/A
Monte Belo Do Sul, Brazil	2,507	581	23%	N/A	N/A	N/A	N/A	N/A	N/A
Muçum, Brazil	4,778	1,053	22%	N/A	N/A	N/A	N/A	N/A	N/A
Cotiporã, Brazil	3,678	801	22%	N/A	N/A	N/A	N/A	N/A	N/A
São Valentim Do Sul, Brazil	2,161	483	22%	N/A	N/A	N/A	N/A	N/A	N/A
Forquetinha, Brazil	33	7	21%	N/A	N/A	N/A	N/A	N/A	N/A
Doutor Ricardo, Brazil	1,907	409	21%	N/A	N/A	N/A	N/A	N/A	N/A
Pouso Novo, Brazil	1,564	328	21%	N/A	N/A	N/A	N/A	N/A	N/A
Nova Bréscia, Brazil	2,186	461	21%	N/A	N/A	N/A	N/A	N/A	N/A
Linha Nova, Brazil	1,659	350	21%	N/A	N/A	N/A	N/A	N/A	N/A
Poço Das Antas, Brazil	2,103	444	21%	N/A	N/A	N/A	N/A	N/A	N/A
Dois Lajeados, Brazil	3,282	678	21%	N/A	N/A	N/A	N/A	N/A	N/A
Anta Gorda, Brazil	5,721	1,126	20%	N/A	N/A	N/A	N/A	N/A	N/A
Putinga, Brazil	3,631	730	20%	N/A	N/A	N/A	N/A	N/A	N/A
Brochier, Brazil	4,916	968	20%	N/A	N/A	N/A	N/A	N/A	N/A
Maratá, Brazil	2,482	505	20%	N/A	N/A	N/A	N/A	N/A	N/A
Pinto Bandeira, Brazil	3,010	596	20%	N/A	N/A	N/A	N/A	N/A	N/A
Nova Pádua, Brazil	2,444	496	20%	N/A	N/A	N/A	N/A	N/A	N/A
Sério, Brazil	1,840	358	19%	N/A	N/A	N/A	N/A	N/A	N/A
São José Do Sul, Brazil	31	6	19%	N/A	N/A	N/A	N/A	N/A	N/A
Nova Roma Do Sul, Brazil	3,625	674	19%	N/A	N/A	N/A	N/A	N/A	N/A
Vale Verde, Brazil	3,398	630	19%	N/A	N/A	N/A	N/A	N/A	N/A
Alto Feliz, Brazil	2,931	540	18%	N/A	N/A	N/A	N/A	N/A	N/A
Roca Sales, Brazil	11,146	2,002	18%	N/A	N/A	N/A	N/A	N/A	N/A
General Câmara, Brazil	8,030	1,437	18%	N/A	N/A	N/A	N/A	N/A	N/A
Capitão, Brazil	2,664	443	17%	N/A	N/A	N/A	N/A	N/A	N/A
Ilópolis, Brazil	3,884	664	17%	N/A	N/A	N/A	N/A	N/A	N/A
Canudos Do Vale, Brazil	29	5	17%	N/A	N/A	N/A	N/A	N/A	N/A

Location	Total Pop.	Pop. > 60 yrs	% of Pop. > 60 yrs ▼	% of Women Pop.	% of Children Under 5	% of Pop. Below Poverty Level	Num. Customers Without Power	DME Users	DME Users / 100K Pop.
Paverama, Brazil	8,141	1,395	17%	N/A	N/A	N/A	N/A	N/A	N/A
Santa Clara Do Sul, Brazil	6,571	1,070	16%	N/A	N/A	N/A	N/A	N/A	N/A
Cruzeiro Do Sul, Brazil	12,126	1,993	16%	N/A	N/A	N/A	N/A	N/A	N/A
Mato Leitão, Brazil	4,638	733	16%	N/A	N/A	N/A	N/A	N/A	N/A
Progresso, Brazil	5,720	888	16%	N/A	N/A	N/A	N/A	N/A	N/A
Nova Petrópolis, Brazil	21,074	3,354	16%	N/A	N/A	N/A	N/A	N/A	N/A
Encantado, Brazil	22,212	3,535	16%	N/A	N/A	N/A	N/A	N/A	N/A
Passo Do Sobrado, Brazil	6,335	990	16%	N/A	N/A	N/A	N/A	N/A	N/A
Rio Pardo, Brazil	36,731	5,854	16%	N/A	N/A	N/A	N/A	N/A	N/A
Arvorezinha, Brazil	9,994	1,501	15%	N/A	N/A	N/A	N/A	N/A	N/A
São José Do Herval, Brazil	1,887	276	15%	N/A	N/A	N/A	N/A	N/A	N/A
São Vendelino, Brazil	2,206	338	15%	N/A	N/A	N/A	N/A	N/A	N/A
Barão, Brazil	5,965	918	15%	N/A	N/A	N/A	N/A	N/A	N/A
Harmonia, Brazil	4,841	703	15%	N/A	N/A	N/A	N/A	N/A	N/A
Fazenda Vilanova, Brazil	4,789	697	15%	N/A	N/A	N/A	N/A	N/A	N/A
Veranópolis, Brazil	26,294	4,025	15%	N/A	N/A	N/A	N/A	N/A	N/A
Tabaí, Brazil	4,714	696	15%	N/A	N/A	N/A	N/A	N/A	N/A
Pareci Novo, Brazil	3,762	580	15%	N/A	N/A	N/A	N/A	N/A	N/A
Porto Alegre, Brazil	1,432,531	215,365	15%	N/A	N/A	N/A	N/A	N/A	N/A
Venâncio Aires, Brazil	69,555	9,946	14%	N/A	N/A	N/A	N/A	N/A	N/A
Arroio Do Meio, Brazil	20,422	2,947	14%	N/A	N/A	N/A	N/A	N/A	N/A
Picada Café, Brazil	5,603	787	14%	N/A	N/A	N/A	N/A	N/A	N/A
Feliz, Brazil	13,241	1,830	14%	N/A	N/A	N/A	N/A	N/A	N/A
Estrela, Brazil	33,681	4,643	14%	N/A	N/A	N/A	N/A	N/A	N/A
São Jerônimo, Brazil	23,727	3,220	14%	N/A	N/A	N/A	N/A	N/A	N/A
Bom Retiro Do Sul, Brazil	11,985	1,638	14%	N/A	N/A	N/A	N/A	N/A	N/A
Taquari, Brazil	25,884	3,674	14%	N/A	N/A	N/A	N/A	N/A	N/A
Santa Cruz Do Sul, Brazil	126,665	16,726	13%	N/A	N/A	N/A	N/A	N/A	N/A
Fontoura Xavier, Brazil	9,811	1,296	13%	N/A	N/A	N/A	N/A	N/A	N/A
Barros Cassal, Brazil	10,740	1,383	13%	N/A	N/A	N/A	N/A	N/A	N/A
São José Do Hortêncio, Brazil	4,880	656	13%	N/A	N/A	N/A	N/A	N/A	N/A
Presidente Lucena, Brazil	2,935	382	13%	N/A	N/A	N/A	N/A	N/A	N/A
Salvador Do Sul, Brazil	6,477	855	13%	N/A	N/A	N/A	N/A	N/A	N/A
Garibaldi, Brazil	32,400	4,366	13%	N/A	N/A	N/A	N/A	N/A	N/A
Flores Da Cunha, Brazil	30,640	3,834	13%	N/A	N/A	N/A	N/A	N/A	N/A
São Marcos, Brazil	20,947	2,766	13%	N/A	N/A	N/A	N/A	N/A	N/A
Butiá, Brazil	20,128	2,640	13%	N/A	N/A	N/A	N/A	N/A	N/A
Minas Do Leão, Brazil	7,817	986	13%	N/A	N/A	N/A	N/A	N/A	N/A
Triunfo, Brazil	29,581	3,782	13%	N/A	N/A	N/A	N/A	N/A	N/A
Boqueirão Do Leão, Brazil	7,388	864	12%	N/A	N/A	N/A	N/A	N/A	N/A

Location	Total Pop.	Pop. > 60 yrs	% of Pop. > 60 yrs ▼	% of Women Pop.	% of Children Under 5	% of Pop. Below Poverty Level	Num. Customers Without Power	DME Users	DME Users / 100K Pop.
São Pedro Da Serra, Brazil	3,776	458	12%	N/A	N/A	N/A	N/A	N/A	N/A
Tupandi, Brazil	5,107	590	12%	N/A	N/A	N/A	N/A	N/A	N/A
São Sebastião Do Caí, Brazil	25,113	3,115	12%	N/A	N/A	N/A	N/A	N/A	N/A
Teutônia, Brazil	31,817	3,886	12%	N/A	N/A	N/A	N/A	N/A	N/A
Bento Gonçalves, Brazil	120,465	14,889	12%	N/A	N/A	N/A	N/A	N/A	N/A
Carlos Barbosa, Brazil	30,631	3,796	12%	N/A	N/A	N/A	N/A	N/A	N/A
Montenegro, Brazil	63,344	7,747	12%	N/A	N/A	N/A	N/A	N/A	N/A
Capela De Santana, Brazil	12,074	1,395	12%	N/A	N/A	N/A	N/A	N/A	N/A
Esteio, Brazil	81,045	9,872	12%	N/A	N/A	N/A	N/A	N/A	N/A
Charqueadas, Brazil	35,891	4,433	12%	N/A	N/A	N/A	N/A	N/A	N/A
Lajeado, Brazil	78,585	8,834	11%	N/A	N/A	N/A	N/A	N/A	N/A
Vale Real, Brazil	5,921	674	11%	N/A	N/A	N/A	N/A	N/A	N/A
Bom Princípio, Brazil	14,406	1,600	11%	N/A	N/A	N/A	N/A	N/A	N/A
Farroupilha, Brazil	72,573	7,857	11%	N/A	N/A	N/A	N/A	N/A	N/A
Caxias Do Sul, Brazil	515,516	55,471	11%	N/A	N/A	N/A	N/A	N/A	N/A
Novo Hamburgo, Brazil	236,757	26,240	11%	N/A	N/A	N/A	N/A	N/A	N/A
Canoas, Brazil	336,589	38,609	11%	N/A	N/A	N/A	N/A	N/A	N/A
Ivoti, Brazil	25,067	2,565	10%	N/A	N/A	N/A	N/A	N/A	N/A
Nova Santa Rita, Brazil	32,188	3,064	10%	N/A	N/A	N/A	N/A	N/A	N/A
Sapucaia Do Sul, Brazil	135,933	14,184	10%	N/A	N/A	N/A	N/A	N/A	N/A
São Leopoldo, Brazil	233,106	23,953	10%	N/A	N/A	N/A	N/A	N/A	N/A
Portão, Brazil	38,253	3,914	10%	N/A	N/A	N/A	N/A	N/A	N/A
Eldorado Do Sul, Brazil	42,343	4,048	10%	N/A	N/A	N/A	N/A	N/A	N/A
Estância Velha, Brazil	51,012	4,687	9%	N/A	N/A	N/A	N/A	N/A	N/A
Lindolfo Collor, Brazil	6,087	446	7%	N/A	N/A	N/A	N/A	N/A	N/A

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