

Wheat crop in Rio Grande do Sul state, Brazil, 2019.

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Rio Grande do Sul is one of the main wheat-producing states in Brazil. This study analyzed the wheat crop in Rio Grande do Sul in 2019. In 2019, Rio Grande do Sul state harvested 760,911 ha of wheat (36.3% of the total area harvested in Brazil), producing 2,287,720 tons of wheat (40.8% of the Brazilian production), with an average of grain yield of 3,007 kg/ha (336 kg/ha above the Brazilian average of 2,671 kg/ha). Among the geographical mesoregions of Rio Grande do Sul (Fig. 1), the RS Northwest mesoregion harvested the largest wheat area, 616,402 ha (81.0 % of the cropped area in the state) and had the largest production, 1,876,590 tons of wheat grain (82.0% of the state production) (Table 1). However, the average wheat grain yield obtained in this mesoregion was the second highest in the state at 3,044 kg/ha (37 kg/ha above the state average) (Table 1). The RS Northeast mesoregion harvested 36,861 ha of wheat (4.8% of the cropped area in the state), produced 124,056 tons of wheat grain (5.4% of state production), and had the highest average wheat grain yield in the state, 3,366 kg/ha (359 kg/ha above the state average) (Table 1). The wheat crop in Rio Grande do Sul, in 2019, had some unfavorable weather conditions, notably a water deficit at the beginning of the crop vegetative development, a high occurrence of powdery mildew, and excessive rainfall at harvest, favoring preharvest sprouting in more susceptible cultivars, especially in the colder regions with later sowing and harvesting. Comparing the wheat crop data with the results of the State Test of Wheat

Cultivars in Rio Grande do Sul (STWC-RS) in 2019, we observed that the average of wheat grain yield of commercial crops was 1,669 kg/ha below that of the average of the STWC-RS (4,676 kg/ha).

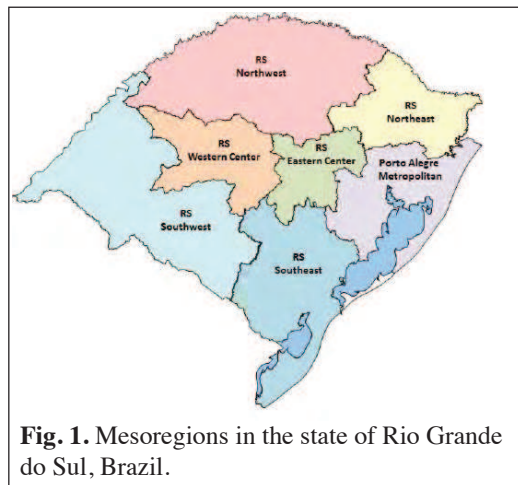


Fig. 1. Mesoregions in the state of Rio Grande do Sul, Brazil.

Table 1. Area harvested, production, and average of grain yield of wheat in each of the mesoregions (see Fig. 1) of the state of Rio Grande do Sul, Brazil, in 2019 (Source: IBGE. 2021).

Mesoregion	Area harvested		Production		Grain yield (kg/ha)
	ha	%	tons	%	
RS Northwest	616,402	81.0	1,876,590	82.0	3,044
RS Northeast	36,861	4.8	124,056	5.4	3,366
RS Western Center	42,978	5.6	120,324	5.3	2,800
RS Eastern Center	7,917	1.0	18,229	0.8	2,303
Porto Alegre Metropolitan	1,000	0.1	2,500	0.1	2,500
RS Southwest	50,550	6.6	135,673	5.9	2,684
RS Southeast	5,203	0.7	10,348	0.5	1,989
Rio Grande do Sul State	760,911	100.0	2,287,720	100.0	3,007

Reference.

IBGE. 2021. Produção Agrícola Municipal. Disponível em: <<https://www.ibge.gov.br/estatisticas/economicas/agricultura-e-pecuaria/9117-producao-agricola-municipal-culturas-temporarias-e-permanentes.html?=&t=resultados>>. Acesso em: 10 abr. 2021. Nota: Banco de dados agregados de estudos e pesquisas realizados pelo IBGE.