

The soybean yield gap in Brazil “ magnitude, causes a  
production

Journal of Agricultural Science

153, 1394-1411

DOI: [10.1017/s0021859615000313](https://doi.org/10.1017/s0021859615000313)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Acúmulo de matéria seca e produtividade em híbridos de arroz irrigado simulados com o modelo SimulArroz. Pesquisa Agropecuária Brasileira, 2016, 51, 1907-1917.	0.9	7
2	Soybean Seed Treatment with Nickel Improves Biological Nitrogen Fixation and Urease Activity. Frontiers in Environmental Science, 2016, 4, .	1.5	42
3	Alternative sowing dates as a mitigation measure to reduce climate change impacts on soybean yields in southern Brazil. International Journal of Climatology, 2016, 36, 3664-3672.	1.5	24
4	Climate and Management Factors Influence Soybean Yield Potential in a Subtropical Environment. Agronomy Journal, 2016, 108, 1447-1454.	0.9	76
5	The Evaporative Stress Index as an indicator of agricultural drought in Brazil: An assessment based on crop yield impacts. Remote Sensing of Environment, 2016, 174, 82-99.	4.6	238
6	Gauging the sources of uncertainty in soybean yield simulations using the MONICA model. Agricultural Systems, 2017, 155, 9-18.	3.2	23
7	Sugarcane yield gap: can it be determined at national level with a simple agrometeorological model?. Crop and Pasture Science, 2017, 68, 272.	0.7	32
8	Improvement of Soybean Resilience to Drought through Deep Root System in Brazil. Agronomy Journal, 2017, 109, 1612-1622.	0.9	51
9	Inter-comparison of performance of soybean crop simulation models and their ensemble in southern Brazil. Field Crops Research, 2017, 200, 28-37.	2.3	82
10	Assessment of soybean yield with altered water-related genetic improvement traits under climate change in Southern Brazil. European Journal of Agronomy, 2017, 83, 1-14.	1.9	45
11	Interactions between temperature and drought in global and regional crop yield variability during 1961-2014. PLoS ONE, 2017, 12, e0178339.	1.1	174
12	Assessment of crop-management strategies to improve soybean resilience to climate change in Southern Brazil. Crop and Pasture Science, 2018, 69, 154.	0.7	40
13	Analysis of profitability of conservation tillage for a soybean monoculture associated with corn as an off-season crop. Cogent Food and Agriculture, 2018, 4, 1429699.	0.6	4
14	Rain-fed and irrigated cropland-atmosphere water fluxes and their implications for agricultural production in Southern Amazonia. Agricultural and Forest Meteorology, 2018, 256-257, 407-419.	1.9	22
15	Nutritional Attributes, Substitutability, Scalability, and Environmental Intensity of an Illustrative Subset of Current and Future Protein Sources for Aquaculture Feeds: Joint Consideration of Potential Synergies and Trade-offs. Environmental Science & Technology, 2018, 52, 5532-5544.	4.6	57
16	Responses of soybean to water stress and supplemental irrigation in upper Indo-Gangetic plain: Field experiment and modeling approach. Field Crops Research, 2018, 219, 76-86.	2.3	45
17	Sensitivity and requirement of improvements of four soybean crop simulation models for climate change studies in Southern Brazil. International Journal of Biometeorology, 2018, 62, 823-832.	1.3	14
18	A Geostatistical Approach for Modeling Soybean Crop Area and Yield Based on Census and Remote Sensing Data. Remote Sensing, 2018, 10, 680.	1.8	17

#	ARTICLE	IF	CITATIONS
19	Yield gap of cassava crop as a measure of food security - an example for the main Brazilian producing regions. <i>Food Security</i> , 2018, 10, 1191-1202.	2.4	17
20	Antixenosis to <i>Chrysodeixis includens</i> (Lepidoptera: Noctuidae) among soybean genotypes. <i>Bragantia</i> , 2018, 77, 124-133.	1.3	9
21	The biophysical and socio-economic dimension of yield gaps in the southern Amazon – A bio-economic modelling approach. <i>Agricultural Systems</i> , 2018, 165, 1-13.	3.2	16
22	NDVI and meteorological data as indicators of the Pampa biome natural grasslands growth. <i>Bragantia</i> , 2018, 77, 404-414.	1.3	8
23	An accurate assessment tool based on intelligent technique for suitability of soybean cropland: case study in Kebumen Regency, Indonesia. <i>Heliyon</i> , 2018, 4, e00684.	1.4	8
24	Effect of irrigation regime on yield, harvest index and water productivity of soybean grown under different precipitation conditions in a temperate environment. <i>Agricultural Water Management</i> , 2018, 210, 224-231.	2.4	39
25	Optimum Leaf Area Index to Reach Soybean Yield Potential in Subtropical Environment. <i>Agronomy Journal</i> , 2018, 110, 932-938.	0.9	45
26	Soybean Yield Gap in the Areas of Yield Contest in Brazil. <i>International Journal of Plant Production</i> , 2018, 12, 159-168.	1.0	52
27	Assessment of economic returns by using a central pivot system to irrigate common beans during the rainfed season in Central Brazil. <i>Agricultural Water Management</i> , 2019, 224, 105749.	2.4	16
28	Intercomparison of structural features and performance of Eucalyptus simulation models and their ensemble for yield estimations. <i>Forest Ecology and Management</i> , 2019, 450, 117493.	1.4	23
29	Biochemical and physiological impacts of zinc sulphate, potassium phosphite and hydrogen sulphide in mitigating stress conditions in soybean. <i>Physiologia Plantarum</i> , 2020, 168, 456-472.	2.6	21
30	Fine-mapping QTLs and the validation of candidate genes for Aluminum tolerance using a high-density genetic map. <i>Plant and Soil</i> , 2019, 444, 119-137.	1.8	8
31	Sugarcane straw removal effects on soil water storage and drainage in southeastern Brazil. <i>Journal of Soils and Water Conservation</i> , 2019, 74, 466-476.	0.8	23
32	Assessing the growth gaps of Eucalyptus plantations in Brazil – Magnitudes, causes and possible mitigation strategies. <i>Forest Ecology and Management</i> , 2019, 451, 117464.	1.4	31
33	Characterizing Brazilian soybean-growing regions by water deficit patterns. <i>Field Crops Research</i> , 2019, 240, 95-105.	2.3	23
34	Machine Learning-Based Prediction of Drainage in Layered Soils Using a Soil Drainability Index. <i>Soil Systems</i> , 2019, 3, 30.	1.0	2
35	Uncertainty assessment of soya bean yield gaps using DSSAT – CSM – CROPGRO – Soybean calibrated by cultivar maturity groups. <i>Journal of Agronomy and Crop Science</i> , 2019, 205, 533-544.	1.7	18
36	Soybean-maize off-season double crop system in Brazil as affected by El Niño Southern Oscillation phases. <i>Agricultural Systems</i> , 2019, 173, 254-267.	3.2	36

#	ARTICLE	IF	CITATIONS
37	Multi-scale assessment of winter wheat yield gaps with an integrated evaluation framework in the Huang-Huai-Hai farming region in China. <i>Journal of Agricultural Science</i> , 2019, 157, 523-536.	0.6	1
38	Assessment of different gridded weather data for soybean yield simulations in Brazil. <i>Theoretical and Applied Climatology</i> , 2019, 135, 237-247.	1.3	42
39	UAV-based thermal imaging in the assessment of water status of soybean plants. <i>International Journal of Remote Sensing</i> , 2020, 41, 3243-3265.	1.3	49
40	Intercomparison and Performance of Maize Crop Models and Their Ensemble for Yield Simulations in Brazil. <i>International Journal of Plant Production</i> , 2020, 14, 127-139.	1.0	8
41	Estimation of soybean yield from machine learning techniques and multispectral RPAS imagery. <i>Remote Sensing Applications: Society and Environment</i> , 2020, 20, 100397.	0.8	9
42	An Innovative Land Suitability Method to Assess the Potential for the Introduction of a New Crop at a Regional Level. <i>Agronomy</i> , 2020, 10, 330.	1.3	11
43	Climate change, crops and commodity traders: subnational trade analysis highlights differentiated risk exposure. <i>Climatic Change</i> , 2020, 162, 175-192.	1.7	3
44	Influence of Climate Variability on Soybean Yield in MATOPIBA, Brazil. <i>Atmosphere</i> , 2020, 11, 1130.	1.0	20
45	Yield gap of the double-crop system of main-season soybean with off-season maize in Brazil. <i>Crop and Pasture Science</i> , 2020, 71, 445.	0.7	7
46	Understanding Landscape Multifunctionality in a Post-forest Frontier: Supply and Demand of Ecosystem Services in Eastern Amazonia. <i>Frontiers in Environmental Science</i> , 2020, 7, .	1.5	14
47	Profitability of soybean production models with diversified crops in the autumn-winter. <i>Agronomy Journal</i> , 2020, 112, 4092-4103.	0.9	13
48	The impact of climate change on Brazil's agriculture. <i>Science of the Total Environment</i> , 2020, 740, 139384.	3.9	67
49	A model for the yield losses estimation in an early soybean ( <i>Glycine max</i> (L.) Merr.) cultivar depending on the cutting height at harvest. <i>Field Crops Research</i> , 2020, 254, 107846.	2.3	16
50	Characterizing Sugarcane Production Areas Using Actual Yield and Edaphoclimatic Condition Data for the State of Goiás, Brazil. <i>International Journal of Plant Production</i> , 2020, 14, 511-520.	1.0	7
51	Biochar Amendment Enhances Water Retention in a Tropical Sandy Soil. <i>Agriculture (Switzerland)</i> , 2020, 10, 62.	1.4	19
52	Evaluating the Contribution of Soybean Rust- Resistant Cultivars to Soybean Production and the Soybean Market in Brazil: A Supply and Demand Model Analysis. <i>Sustainability</i> , 2020, 12, 1422.	1.6	11
53	Topsoil Hardening: Effects on Soybean Root Architecture and Water Extraction Patterns. <i>Journal of Soil Science and Plant Nutrition</i> , 2020, 20, 2182-2194.	1.7	1
54	Does gypsum increase crop grain yield on no-tilled acid soils? A meta-analysis. <i>Agronomy Journal</i> , 2020, 112, 675-692.	0.9	25

#	ARTICLE	IF	CITATIONS
55	Rules for grown soybean-maize cropping system in Midwestern Brazil: Food production and economic profits. <i>Agricultural Systems</i> , 2020, 182, 102850.	3.2	25
56	Analysis of Climate Extreme Indices in the MATOPIBA Region, Brazil. <i>Pure and Applied Geophysics</i> , 2020, 177, 4457-4478.	0.8	28
57	Gauging the effects of climate variability on Eucalyptus plantations productivity across Brazil: A process-based modelling approach. <i>Ecological Indicators</i> , 2020, 114, 106325.	2.6	20
58	Modeling the impact of agrometeorological variables on soybean yield in the Mato Grosso Do Sul: 2000â€”2019. <i>Environment, Development and Sustainability</i> , 2021, 23, 5151-5164.	2.7	3
59	Precrops alleviate soil physical limitations for soybean root growth in an Oxisol from southern Brazil. <i>Soil and Tillage Research</i> , 2021, 206, 104820.	2.6	23
60	Classification of Soybean Genotypes Assessed Under Different Water Availability and at Different Phenological Stages Using Leaf-Based Hyperspectral Reflectance. <i>Remote Sensing</i> , 2021, 13, 172.	1.8	15
61	Soybean production and yield in the context of global climatic changes. <i>CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources</i> , 0, , .	0.6	0
62	Thermomagnesium: A By-Product of Ni Ore Mining as a Clean Fertilizer Source for Maize. <i>Agronomy</i> , 2021, 11, 525.	1.3	4
63	Soya Bitkisinin Verim Parametreleri ile Bazı Kimyasal Toprak Özellikleri Arasındaki Pedotransfer Modellerin Uygulanabilirliği. <i>Journal of Tekirdag Agricultural Faculty</i> , 2021, 18, 494-507.	0.2	1
64	Biophysical and management factors causing yield gap in soybean in the subtropics of Brazil. <i>Agronomy Journal</i> , 2021, 113, 1882-1894.	0.9	14
65	Yield Prediction in Soybean Crop Grown under Different Levels of Water Availability Using Reflectance Spectroscopy and Partial Least Squares Regression. <i>Remote Sensing</i> , 2021, 13, 977.	1.8	10
66	İl. Çerçevesinde Soya Yetiştiricilerinin [Glycine max (L.) Merrill] Farklı Yetiştirme Dönemlerinde İncelenen Fizyolojik Parametreleri. <i>ISPEC Journal of Agricultural Sciences</i> , 2021, 5, 100-106.	0.0	1
67	Modeling the current land suitability and future dynamics of global soybean cultivation under climate change scenarios. <i>Field Crops Research</i> , 2021, 263, 108069.	2.3	38
68	Cover crops decrease maize yield variability in sloping landscapes through increased water during reproductive stages. <i>Field Crops Research</i> , 2021, 265, 108111.	2.3	18
69	Water deficit in the soybean breeding. <i>Agronomy Science and Biotechnology</i> , 0, 7, 1-20.	0.3	2
70	Nutrient Removal by Grain in Modern Soybean Varieties. <i>Frontiers in Plant Science</i> , 2021, 12, 615019.	1.7	8
71	Optimization of China's maize and soy production can ensure feed sufficiency at lower nitrogen and carbon footprints. <i>Nature Food</i> , 2021, 2, 426-433.	6.2	90
72	Time-weighted dynamic time warping analysis for mapping interannual cropping practices changes in large-scale agro-industrial farms in Brazilian Cerrado. <i>Science of Remote Sensing</i> , 2021, 3, 100021.	2.2	16

#	ARTICLE	IF	CITATIONS
73	Predictions of soybean harvest index evolution and evapotranspiration using STICS crop model. <i>Agronomy Journal</i> , 2021, 113, 3281-3298.	0.9	1
74	Soil Moisture Modulates Carbon Dioxide Assimilation in Soybean ( <i>Glycine max</i> ). <i>Agricultural Research</i> , 0, , 1.	0.9	0
75	Water deficit on the growth and yield of irrigated soybean in the Brazilian Cerrado region. <i>Revista Brasileira De Engenharia Agricola E Ambiental</i> , 2021, 25, 750-757.	0.4	1
76	Mutual analyses of agriculture land use and transportation networks: The future location of soybean and corn production in Brazil.. <i>Agricultural Systems</i> , 2021, 194, 103264.	3.2	19
77	Soybean. , 2021, , 282-319.		12
78	Nitric and nitrous oxide fluxes from intensifying crop agriculture in the seasonally dry tropical Amazonâ€C cerrado border region. , 2021, 4, e20169.		5
79	Assessment of agricultural efficiency and yield gap for soybean in the Brazilian Central Cerrado biome. <i>Bragantia</i> , 0, 80, .	1.3	6
80	A Pathway to Carbon Neutral Agriculture in Denmark. , 0, , .		12
81	Assessments and How an Increase in Temperature may Have an Impact on Agriculture in Brazil and Mapping of the Current and Future Situation. , 2019, , 31-65.		3
82	Effects of the El NiÃ±o Southern Oscillation phenomenon and sowing dates on soybean yield and on the occurrence of extreme weather events in southern Brazil. <i>Agricultural and Forest Meteorology</i> , 2020, 290, 108038.	1.9	16
83	Risk of Occurrence of Water Deficit in Soybean Cultivated in Lowland Soils. <i>Earth Interactions</i> , 2020, 24, 1-9.	0.7	5
84	Resilience of an Integrated Cropâ€Livestock System to Climate Change: A Simulation Analysis of Cover Crop Grazing in Southern Brazil. <i>Frontiers in Sustainable Food Systems</i> , 2020, 4, .	1.8	20
85	Terracing increases soil available water to plants in no-tillage. <i>Revista Brasileira De Ciencia Do Solo</i> , 2021, 45, .	0.5	4
86	Growth and transpiration of soybean genotypes with <scp>HaHB4</scp>Â® transcription factor for drought tolerance. <i>Physiologia Plantarum</i> , 2022, 174, .	2.6	3
87	Using leaf-based hyperspectral reflectance for genotype classification within a soybean germplasm collection assessed under different levels of water availability. <i>International Journal of Remote Sensing</i> , 2021, 42, 8165-8184.	1.3	2
88	Soybean and Maize Zoning in West African Economic and Monetary Unionâ€A simulation Approach. <i>Journal of Agricultural Science</i> , 2021, 10, 158.	0.1	0
89	Mapping Algorithm Design and Maturity Model Construction of Online Learning Process Goals. <i>International Journal of Emerging Technologies in Learning</i> , 2019, 14, 31.	0.8	0
90	Assessment of Soybeans Crop Management Strategies Using Crop Growth Models for Central Brazil. <i>Innovations in Landscape Research</i> , 2020, , 525-543.	0.2	1

#	ARTICLE	IF	CITATIONS
92	Evaluating irrigated rice yields in Japan within the Climate Zonation Scheme of the Global Yield Gap Atlas. <i>Journal of Agricultural Science</i> , 2020, 158, 718-729.	0.6	2
93	Comprehensive yield gap analysis and optimizing agronomy practices of soybean in Iran. <i>Journal of Agricultural Science</i> , 2020, 158, 739-747.	0.6	8
94	Managing runoff in rainfed agriculture under no-till system: potential for improving crop production. <i>Revista Brasileira De Ciencia Do Solo</i> , 2021, 45, .	0.5	1
95	Bitki (Soya/Glycine Max. L. Merill) Verim Parametreleri ile Bazı Fiziksel Toprak Özellikleri Arasındaki Deneysel İlişkilerin Belirlenmesi. <i>Toprak Bilimi Ve Bitki Besleme Dergisi</i> , 0, , .	0.4	0
96	Endophytic fungi from an overlooked plant species: A case study in <i>Kelissa brasiliensis</i> (Baker) Ravenna. <i>Acta Botanica Brasiliica</i> , 0, 36, .	0.8	1
97	Water monitoring of soybean crops using the TVDI obtained from surface radiometric sensors. <i>Pesquisa Agropecuaria Brasileira</i> , 0, 57, .	0.9	1
98	Data-driven projections suggest large opportunities to improve Europe's soybean self-sufficiency under climate change. <i>Nature Food</i> , 2022, 3, 255-265.	6.2	26
99	Drought stress induces changes in the physiology and root system of soybean plants. <i>Revista Brasileira De Botanica</i> , 2021, 44, 779-789.	0.5	2
100	Stability of Protein and Oil Content in Soybean across Dry and Normal Environments—A Case Study in Croatia. <i>Agronomy</i> , 2022, 12, 915.	1.3	1
101	Determination of the effects of different tillage methods and irrigation levels on soybean yield and yield components. <i>Journal of Agricultural Science</i> , 2022, 160, 76-85.	0.6	1
104	Improvement of vegetable soybean: genetic diversity and correlations of traits between immature and mature plants. <i>Crop Breeding and Applied Biotechnology</i> , 2022, 22, .	0.1	0
105	Diversified crop rotations increase the yield and economic efficiency of grain production systems. <i>European Journal of Agronomy</i> , 2022, 137, 126528.	1.9	22
106	Physiological and yield responses of soybean under water deficit. <i>Journal of Crop Science and Biotechnology</i> , 0, , .	0.7	2
107	In memoriam of Paulo Cesar Sentelhas. <i>Scientia Agricola</i> , 0, 80, .	0.6	0
108	Optimal soybean sowing window adjusted to climatic variability based on El Nino-Southern Oscillation using agrometeorological modeling. <i>Pesquisa Agropecuaria Tropical</i> , 0, 52, .	1.0	0
109	Yield gap in bitter melon production: A perspective of farm-specific efficiency in Narsingdi district in Bangladesh. <i>Social Sciences &amp; Humanities Open</i> , 2022, 6, 100335.	1.3	0
110	Potential Use of Data-Driven Models to Estimate and Predict Soybean Yields at National Scale in Brazil. <i>International Journal of Plant Production</i> , 2022, 16, 691-703.	1.0	3
111	Identification of Functional Genetic Variations Underlying Flooding Tolerance in Brazilian Soybean Genotypes. <i>International Journal of Molecular Sciences</i> , 2022, 23, 10611.	1.8	2

#	ARTICLE	IF	CITATIONS
112	Impact of soil compaction on 30-year soybean yield simulated with CROPGRO-DSSAT. <i>Agricultural Systems</i> , 2022, 203, 103523.	3.2	3
113	Productivity of Soybean under Projected Climate Change in a Semi-Arid Region of West Africa: Sensitivity of Current Production System. <i>Agronomy</i> , 2022, 12, 2614.	1.3	4
114	Protecting the Amazon forest and reducing global warming via agricultural intensification. <i>Nature Sustainability</i> , 2022, 5, 1018-1026.	11.5	22
115	Quantifying Potential Yield and Yield Gaps of Soybean Using CROPGRO-Soybean Model in the Humid Tropics of Southwestern Ethiopia. <i>International Journal of Plant Production</i> , 2022, 16, 653-667.	1.0	1
116	Shared centre pivot. An experience of smallholder irrigation in Midwest Brazil. <i>Agricultural Water Management</i> , 2023, 275, 108028.	2.4	0
117	Assessing the sensitive spectral bands for soybean water status monitoring and soil moisture prediction using leaf-based hyperspectral reflectance. <i>Agricultural Water Management</i> , 2023, 277, 108089.	2.4	13
118	Soybean yield prediction by machine learning and climate. <i>Theoretical and Applied Climatology</i> , 2023, 151, 1709-1725.	1.3	8
119	Integrating life cycle assessment (LCA) with boundary line analysis (BLA) to reduce agro-environmental risk of crop production: a case study of soybean production in Northern Iran. <i>Clean Technologies and Environmental Policy</i> , 0, , .	2.1	2
120	Can Soil Moisture and Crop Production Be Influenced by Different Cropping Systems?. <i>AgriEngineering</i> , 2023, 5, 112-126.	1.7	2
121	Physiological and biochemical responses of soybean to drought as represented by the fraction of transpirable soil water. <i>Semina:Ciencias Agrarias</i> , 2022, 43, 2449-2470.	0.1	0
122	Decomposition of yield gap of soybean in environment—Genetics—Management in Southern Brazil. <i>European Journal of Agronomy</i> , 2023, 145, 126795.	1.9	6
123	Grain-cropping suitability for evaluating the agricultural land use change in Brazil. <i>Applied Geography</i> , 2023, 154, 102937.	1.7	4
124	Prospects for soybean production increase by closing yield gaps in the Northeast Farming Region, China. <i>Field Crops Research</i> , 2023, 293, 108843.	2.3	3
125	Soybean Seed Enrichment with Cobalt and Molybdenum as an Alternative to Conventional Seed Treatment. <i>Plants</i> , 2023, 12, 1164.	1.6	3
136	Water Availability of Soil and Growth of Maize on Ultisols Due to Amelioration with Coconut Shell Biochar and Leucaena Compost. , 2023, , 343-355.		0