Table S1: Summary of the performance of CSM-CERES-Wheat model to simulate phenology, growth, and yield for different management practices in south Asia and China.

S. No	Experiment	Variables														Countries	References
		Anthesis	Maturity	LAI/ Leaf area	Grain yield	Flowering other stages	Above ground biomass	Grain No./ No. of ears/ m^2	Grain size/ weight	Grain filling duration	Grain/Biomass / canopy protein/ Nitrogen	ET	SWC	WUE/CWP/ FUE	HI grain/N		
1	Climate change	✓	✓		✓											China	Ye et al., 2013
	RMSE	8.4	7.1		1600												
2	Water stress				✓				✓							China	He et al., 2013
	RAE, %				0.6-6.7				0-7								
3	Climate change	✓	✓		✓		✓									Pakistan	Anser et al., 2020
	RMSE	1.58	2.91		237		247										
4	Sowing dates				✓											India	Shelia et al., 2019
	RMSE				617												
5	Climate change				✓											India	Mall et al., 2018
	RMSE				900-2200												
6	Heat stress/two wheat cultivars				✓		✓	✓	✓	✓	✓					China	Liu et al., 2016
	R^2				0.65-0.70		0.75-0.78	0.65-0.70	0.26-0.22	0.14-0.18	0.12-0.05						
7	Climate change/Arid Climate			✓	✓		✓									India	Sharma et al., 2010
	ABS DIFF			0.5			644										
8	Spring wheat phenology simulations/different cultivars	✓	✓													China	Chen et al., 2021
	RMSE	5.7-6.9	8.3-10.3														
9	Three cultivars/4 Nitrogen rates	✓	✓	✓	✓		✓									Pakistan	Wajid et al., 2021
	%diff	0-1.87	0-1.87	2.08-7.92	0.82-4.84		1.62-3.32										
10	Future Climate	✓	✓		✓											China	Shi et al., 2021
	R2	0.99	0.99		0.95-0.99												
11	Different irrigation schedules/ precipitation category years	✓	✓		✓							✓	✓			China	Zeng et al., 2021
	d-value	1.00	0.99		0.88							0.99	0.48-0.98				
12	Different N treatments	✓	✓		✓		✓					✓		✓		China	Si et al., 2021
	nRMSE	1.47	0.97		6.19		10.97					9.96	11.29				
13	6 sowing dates/ 5 N levels				✓		✓									Pakistan	Rizwan Shahid et al., 2020
	R2				0.98-0.99		0.99										
14	Nitrogen levels/planting dates		✓		✓	✓	✓								✓	Pakistan	Ishaque et al., 2020
	RMSEn%=		3		3	4	3								7%		
15	Long-Term Fertilization /rainfed			✓	✓											China	Wang *et al.,* 2020
16	Well irrigated/fertilized	✓	✓		✓											China	Lang *et al.,* 2020
17	Soil water conditions/deficit irrigation	✓	✓		✓		✓		✓							China	Yao *et al.,* 2020
	RMAE	2.1	2.2		28		228		17.0								
18	Winter Wheat/varied sowing dates/ cultivars	✓	✓		✓		✓									China	Wang *et al.,* 2020
	RMSEn	0.9-1.5	4.7-7.7		4.8-8.2		3.3-6.6										
19	Irrigation management/ varieties				✓			✓	✓				✓			China	Zhou *et al.,* 2019
	RMSE				529-892			60-115	1.9-2.3				1.7-10.4				
20	Plant density/Nitrogen levels				✓		✓				✓					China	Zhang *et al.,* 2019
	NSME				32.6-120.1		585-750				3.1-4.9						
21	3 cultivars/ 3 sowing dates				✓											India	Gill *et al.,* 2018
	MBE				271												

22	Planting dates/varieties/irrigation schedules				✓									India	Vashisht and Jalota, 2018
	RMSE				0.04-0.05										
23	Different dates of sowing/cultivars				✓									India	Singh *et al.*, 2017
	MAE				161										
24	No deficit			✓	✓		✓							China	Xiea *et al.*, 2017
	RE%			21.7	14.65		16.1								
25	Crop planning	✓	✓		✓									China	Zhong *et al.*, 2017
	RE%	0.7-4.4	1.3-3.4		0.99-1.8										
26	Drip Irrigation timing and depth	✓	✓	✓	✓		✓			✓	✓			India	Dar *et al.*, 2017
	MBE	1.25-4.6	2.5-3.42	0.19-0.30	12.9-53.7		9.7-211.2			2.40-11.0	0.01-0.07				
27	Climate change/ adaptation strategies	✓	✓		✓									India	Pramod *et al.*, 2017
	d-value	0.70-0.83	0.77-0.88		0.5-0.7										
28	Different Sowing Dates and Varieties		✓			✓								China	Wu *et al.*, 2017
	R^2		0.93			0.91									
29	Irrigation scheduling/4 Cultivars	✓	✓		✓	✓	✓						✓	India	Patel *et al.*, 2017
	d-value	0.85	0.90		0.99										
30	No deficit	✓	✓	✓	✓									China	Li *et al.*, 2017
	RE	0.97	1.81	25.9	7.1										
31	Planting dates	✓	✓	✓	✓		✓							China	Zheng *et al.*, 2017
	RMSEn%	1.51	0.81	36.5	14.8		15.4								
32	Sowing dates	✓	✓		✓									India	Sandhu *et al.*, 2016
	Mean Abs Diff	2-14	2-6		279-754										
33	Cultivar/sowing dates	✓	✓		✓									India	Kumari and Wadood, 2016
	d-value	0.78	0.79		0.84										
34	Cultivars	✓	✓		✓								✓	India	Mall *et al.*, 2016
	PE	2.7	1.0		5.7								7.35		
35	No deficit				✓									China	Li *et al.*, 2015a
	RMSE				630										
36	Climate change/drought	✓	✓		✓									China	Li *et al.*, 2015b
	RMSEn%	1-2.5	0.7-1.5		4.2-12.4										
37	Hyperspectral Data				✓				✓					China	Li *et al.*, 2015c
	R2				0.70				0.76%						
38	Water and nitrogen N limitations	✓	✓	✓	✓		✓		✓	✓	✓			China	Ji *et al.*, 2014
	Abs diff	0-6	5-8	0.4-0.8											
39	Climate change				✓		✓							India	Vashisht *et al.*, 2013
	ME				0.57		0.91								
40	Cultivar/fertilizer/and weather				✓									China	Zhang *et al.*, 2013
	MAE				10%										
41	Gridded data				✓									India	Mishra *et al.*, 2020
	RMSE				382.5										
42	Climate change/3 dates and 5 cultivars		✓		✓									India	Kour *et al.*, 2013
	Abs deviation		-30 to +38												
43	Date of sowing x Irrigation				✓									India	Patel *et al.*, 2010
	MAE				463-1160										

Table 2: Summary of the performance of CSM-CERES-Rice model to simulate phenology, growth, and yield for different management practices in south Asia and China.

S. No	Experiment	Variables												Countries	References
		Anthesis	Maturity	LAI/Leaf area	Grain yield	Flowering /PI/other stages	Above ground biomass	Grain No./ No. of ears/ m2	Grain size/ weight	N up-take	ET	SWC/ mois-ture	HI grain/N		
1	Elevation and precipitation/ multiple planting methods and cultivars	✓	✓		✓									China	Zhou *et al.*, 2022
	RMSE	2.8 to 5.9	2.7 to 6.2		652-754										
2	Different irrigation methods /water-saving irrigation	✓	✓		✓									China	Tian *et al.*, 2021
	R^2	0.6-0.8	0.6-0.8		0.6-0.9										
3	Adaptation Strategies/ Climate Change	✓	✓		✓		✓							Pakistan	Anser *et al.*, 2020
	RMSE	1.58	2.91		273		247								
4	Different management strategies	✓	✓		✓	✓								India	Jha *et al.*, 2020
	RMSEn	2.73%	1.04%		4.04%	2.14%									
5	Climate Change		✓		✓	✓								China	Gua *et al.*, 2019
	RMSEn%		13-17		11-15	13-18									
6	Climate change		✓		✓	✓								China	Zhang *et al.*, 2019
	RMSE		3.5%		4.6%	2.2%									
7	Rice cultivars/different N-levels	✓	✓		✓		✓							India	Kant *et al.*, 2018
	RMSE	2.1-6.12	5.9-9.8		197-499		1350-1778								
8	Different varieties and N rates			✓	✓		✓			✓				China	Zhang *et al.*, 2018
	R^2			0.64	0.71					0.83					
9	Irrigated/rainfed/soil variation	✓	✓		✓		✓							India	Debnath *et al.*, 2018
	RMSEn	5.4%	6.9%		14.5%		34.5%								
10	Soil moisture and evapotranspiration simulations										✓	✓		India	Shrivastava *et al.*, 2018
	RMSE										60-100 mm	0.07-0.17			
11	Climate change		✓		✓									China	Lv *et al.*, 2018
	RMSE		5.9		865										
12	Sowing dates/cultivars	✓	✓		✓									India	Mehdi *et al.*, 2017
	RMSE	2.3-2.31			245-387	2.8-7.5									
13	Climate change	✓	✓		✓									India	Goswami *et al.*, 2016
	RMSE	3.3	19.1		1652										
14	Dates of planting/ rice varieties	✓	✓		✓	✓								India	Vysakh *et al.*, 2016
	RMSE	2.1-2.4			1039-1186	1.6-1.7									
15	Cultivars/varying levels of nitrogen.				✓		✓							India	Mote and Kumar., 2016
	Error				-23 to +10%		-19 to +8%								
16	Climate Change/irrigated/rainfed.	✓	✓		✓									India	Subba Rao *et al.*, 2016
	RMSE	4-11	6-10		84-687										
17	Establishment methods/rainfed, aerobic and flooded systems.	✓	✓	✓	✓	✓						✓		India	Kadiyala *et al.*, 2015
	RMSE	0.86	1.8	0.97		3.5									
18	Climate change	✓	✓		✓									India	Bhuvaneshwari *et al.*, 2014
	R^2	0.83	0.79		0.77										
19	Cultivar/elevated carbon dioxide and temperature	✓	✓		✓		✓							China	Zhou *et al.*, 2019
	Difference	3	6		800		1070								
20	Planting date/4 varieties				✓									Sri lanka	Dharmarathna *et al.*, 2014
21	Three plant densities/five irrigation regimes	✓	✓	✓	✓		✓							Pakistan	Ahmad *et al.*, 2013
	RMSE			1.12-1.29	333-395		365-385								
22	Climate change/Variability in different climatic zones		✓			✓								China	Zhang and Tao, 2013
	RMSE		2.2-6.2			1.2-4.3									
23	Weather-based rice yield models				✓									India	Sudharsan *et al.*, 2013
	R^2				0.71-0.99										
24	Two rice varieties/SRI/three irrigation schedules and two planting spacings		✓		✓									India	Dass *et al.*, 2012
	%d:				5-11.4%										
25	Simulating the phenology, growth and yield of aromatic rice cultivars		✓	✓	✓	✓	✓	✓	✓				✓	India	Shamim *et al.*, 2012
	RMSE		4.28	0.23	166	1.58	847	1822					0.011		

Table S3: Summary of the performance of CSM-CERES-Maize model to simulate phenology, growth, and yield for different management practices in south Asia and China.

S. No	Experiment	Variables													Countries	References
		Anthesis	Maturity	LAI/Leaf area	Grain yield	Emergence/other stages	Above ground biomass	Grain No./ No. of ears/m2	Grain size/ weight	Grain filling duration	Grain/Biomass /canopy protein/ Nitrogen/N uptake	ET	SWC	WUE/ CWP/ FUE	HI grain/N	
1	Planting density and cultivars	✓	✓		✓		✓									China	Zhang *et al.*, 2022
	RMSE	0-5.7	0-5.7		17-1201		844-3733										
2	Temperature and heat stress/ different cultivars in different maize planting regions	✓	✓		✓											China	Huang *et al.*, 2021
	RMSEn%	3.3-3.9	3.2-3.6		11.7-11.9												
3	In-season N recommendation strategy for maize/6 N rates and 3 planting densities			✓	✓		✓				✓					China	Wang *et al.*, 2021
	R^2			0.65-0.86	0.82-0.94		0.88-0.95				0.84-0.96						
4	Simulating summer maize growth under film mulching	✓	✓	✓		✓	✓			✓			✓			China	Shen *et al.*, 2021
	RMSEn%	1.9-3.6	0.8-2.65	9-11		0-16%	7-8.5			1.2-2.5			6.7-8.7				
5	Irrigation Management and Sowing Dates/13 sowing dates with 32 irrigation scenarios and rainfed treatment	✓	✓	✓	✓	✓	✓						✓	✓		China	Rugira *et al.*, 2021
	RMSEn%	0.99-2.42	0.81-1.16	17	1.9-13	0.77-1	624-1928						2.3-25.3	2.6-7.9			
6	Sowing Window and Yield Forecasting for Maize/5 sowing dates/3 Maize hybrids	✓	✓		✓		✓									Bangladesh	Choudhary *et al.*, 2021
	MAPE	2.54-3	3.59-3.77		13.2-14.01		7.2-7.9										
7	Sustainable crop intensification				✓											China	Ren *et al.*, 2021
	RMSE				1070												
8	Nitrogen fertilizer schedule under drip irrigation	✓			✓	✓				✓	✓		✓			China	Bai and Gao 2021
	MAE	3			163	0				1.5	0.31-3.55		0015-0.024				
9	Climate change						✓						✓			India	Srivastava *et al.*, 2021
	d-value						0.99						0.99				
10	Adaptation strategies/future climate change	✓	✓	✓	✓		✓									China	Saddique *et al.*, 2020
	RAE%	1.3	1.4	8.0	4.2		3.3										
11	Effects of Drought on Summer Maize	✓	✓		✓	✓				✓						China	Shen *et al.*, 2020
	RMSEn%	5	0.86		3.7	16.7				2.7							
12	Genotype-environment-management interactions/Climate change/Different agro-ecological zones	✓	✓		✓											China	Zhang *et al.*, 2020
	R^2	0.97	0.89		0.82												
13	Simulating maize growth and yield under water stress conditions	✓			✓		✓		✓							China	Song and Jin 2020
	ARE%	3.5			6.1		0.25		2.7								
14	Simulating water consumption and yield of maize/ using the two different ET options, i.e., Priestley-Taylor/Ritchie PT and FAO-56 Penman-Monteith PM			✓	✓		✓						✓		✓	China	Ran *et al.*, 2020
	NSE			0.77-0.76	0.05 to -0.18		0.05-0.19						0.43-0.53		0.003 to -0.09		
15	Dynamic within-season irrigation scheduling for maize production		✓		✓	✓	✓									China	Chen *et al.*, 2020
	ARE%		0-3.8		0-6.8	0-3.2	7.2-13.3										
16	Optimization of irrigation and fertilization of drip-irrigated corn	✓	✓		✓		✓		✓		✓		✓			China	Fu *et al.*, 2020
	ARE%	1.1	0.68		18.8		20		9.5		48.9		10.9				
17	Adaptation strategies for maize production under climate change for semiarid	✓	✓	✓	✓		✓									Pakistan	Ahmad *et al.*, 2020

	d-value	0.97	0.97	0.90	0.97		0.94									
18	Different Irrigation and Manure Application Rates		✓		✓		✓								India	Babel *et al.*,2019
	RMSE		3.2		300		700									
19	CERES-Maize Calibration under Different Irrigation Strategies Using PEST Optimization				✓		✓								China	Fang *et al.*,2019
	CV%				11-47		4-19									
20	Optimizing the Sowing Date and Irrigation Strategy to Improve Maize Yield	✓	✓	✓	✓	✓	✓								China	Saddique *et al.*, 2019
	RAE%	0.45-2.11	-0.36-3.89	4.19-5.40	8.38-7.60	0	-4.1-5.4									
21	Assessment of Summer Maize Drought Loss		✓		✓	✓	✓					✓			China	Wei *et al.*, 2019
	RMSE		3.55		2.17	0	6.29					8.7-9.8%				
22	Assessing spring maize responses to irrigation and nitrogen regimes				✓		✓				✓		✓		India	Kaur and Arora 2018
	R^2				0.63		0.37				0.55		0.94			
23	Predicting water and nitrogen requirements/3 irrigation regimes/5 N rates	✓	✓		✓			✓							Pakistan	Hammad *et al.*, 2018
	SE	0.46-3.90	1.0-3.9		161-469			8-28								
24	Climate variability on maize	✓	✓	✓	✓		✓								Pakistan	Ahmed *et al.*, 2018
	Error%	2.6-2.8	1.7-2.8	3.1-6.8	0.08-0.9		1.1-4.9									
25	Yield Forecasting of Spring Maize Using Remote Sensing and Crop Modeling	✓	✓		✓		✓								Pakistan	Ahmed *et al.*, 2018b
	MAE	2.4	2.3		878		0.22									
26	Summer maize yield loss caused by drought stress				✓										China	Geng *et al.*, 2018
	CRM				0.01-0.17											
27	Climate change and crop management on phenology of maize-based/adaptation/planting dates and cultivars	✓	✓												Pakistan	Abbas *et al.*, 2017
	R2	0.81-0.88	0.81-0.86													
28	Potential Impacts of Climate Change and Adaptation/planting depth/planting dates/row spacing/fertilizer		✓		✓	✓	✓								China	Lin *et al.*, 2017
	NSME		0.63		0.70	0.82	0.19									
29	Modelling irrigation management for water conservation/planting dates/irrigation schedules	✓			✓	✓				✓					China	Jiang *et al.*, 2016
	RMSEn%	2.1			0	6.25				2.9-4.9						
30	simulated maize phenology with more frequent supra-optimal temperature under climate warming		✓		✓	✓									China	Guo *et al.*, 2016
	R^2		0.0.99		0.83	0.99										
31	Maize yield gaps differentiate entry points for intensification in the rainfed mid-hills of Nepal	✓	✓		✓	✓	✓	✓						✓	Nepal	Devkota *et al.*, 2015
	RMSE	1.7	1.3		432		742	196						2		
32	Long-term fertilization on maize yield and soil C/N dynamics				✓								✓		China	Yang *et al.*, 2013
	ME				602-1050								0.1-1.1			
33	Impacts of climate change as a function of global mean temperature	✓	✓		✓										China	Tao and Zhang, 2011
	RMSE	8.9	12.4		1348											
34	Simulating maize yield at enhanced level of temperature			✓	✓		✓								India	Lone *et al.*, 2020
	R^2			0.94	0.76		0.89									
35	Validation of CERES-Maize model for growth, yield attributes	✓	✓		✓		✓	✓	✓						India	Kumar *et al.*, 2010
	Abs diff	2.1	6.1		217			25.8	28							

Table S4: Summary of the performance of CSM-CERES-Sorghum (a), CSM-CERES-Millet (b), CSM-CROPGRO-Soybean (c) and CSM-CROPGRO-Peanut (d) models to simulate phenology, growth, and yield for different management practices in south Asia and China.

S. No	Experiment	Variables													Coun-tries	References
		Anthesis	Maturity	LAI/Leaf area	Grain yield/ Pod yield	Haulm yield	First pod day	First seed day	Flow-ering/ other stages	Biomass	Grain No./ No. of ears/ m2	Shelling%/HI	ET	SWC		
a	**CSM-CERES-Sorghum**															
1	Climate change				✓										India	Chadalavada *et al.*, 2022
	RMSE				217-300											
2	Sweet Sorghum-Based Fuel Ethanol				✓										China	Hao *et al.*, 2018
3	Climate change	✓	✓		✓										India	Sandeep *et al.*, 2018
	RMSE	1.5-3.8	2.4-4.2		320-755											
4	Ethanol Potential									✓			✓		China	Yan *et al.*, 2018
5	Drought and heat tolerance Plant spacing/N rates				✓										India	Singh *et al.*, 2014
	RMSE	216-366														
b	**CSM-CERES-Pearl millet**															
1	Climate change impacts	✓	✓	✓						✓	✓				Paki-stan	Asmat Ullah *et al.*, 2019
	RMSE	1.4-2.1	1.6-2.8	0.2-0.5	172-193											
2	Climate change impacts/ multilocation/cultivars				✓										India	Singh *et al.*, 2017
	RMSE				117-379											
c	**CSM-CROPGRO-Soybean**															
1	Conventional and conservation tillage				✓									✓	China	Liu *et al.*, 2013
	RMSE													0.05-0.11		
2	Soybean drought risk		✓		✓				✓					✓	China	Wei *et al.*, 2021
	RRMSE%		2.9						3.3					5.8-6.3		
3	Climate/different sowing dates		✓		✓					✓					India	Walikar *et al.*, 2018
	RMSE				66-426						209-572					
d	**CSM-CROPGRO-Peanut**															
1	Sowing date and phosphorus fertilizer	✓			✓		✓	✓				✓			India	Halder *et al.*, 2017
2	Climate change/drought tolerant cultivars/supplemental irrigation				✓										India	Kadiyala *et al.*, 2015
3	Two Sowing dates/2 cultivars	✓	✓	✓	✓	✓	✓	✓				✓			India	Parmar *et al.*, 2013
	RMSE/Error%	2.8-3.3/8-13	5.3-5.5/5.2-6.2	0.78-0.87/10.3-13.6		115-1128/3.5-11.6	3.8-3.9/9-10.5	3.5-4.5/5.3-6.9				4.5-4.7/4.2-6.6				
4	Three cultivars/3 environments	✓	✓	✓	✓		✓			✓					India	Guled *et al.*, 2012

Table S5: Summary of the performance of CSM-CROPGRO-Cotton model to simulate phenology, growth, and yield for different management practices in south Asia and China.

S. No	Experiment	Variables												Countries	References
		Emergence	Anthesis	Maturity	LAI/Leaf area	Biomass/dry matter	Seed cotton yield	Plant height	SWC	Seeds/m2	Unit weight	Dry boll wt.	Thrshing/HI%		
	Cotton														
1	Future climate/2 RCPs		✓	✓	✓	✓	✓							Pakistan	Arshad Awan *et al.*, 2021
	E%/RMSE		9.9/5.4		6.6/0.33	9.5/963	6.8/184								
2	Four cultivars/3 sowing dates		✓	✓	✓	✓	✓	✓						India	Mishra *et al.*, 2021
	RMSE		1.7-2.3	1.5-4.9	0.36-0.40		73-126	0.15-0.26				216-706			
3	Pre-planting soil moisture/drip irrigation		✓	✓		✓	✓							China	Wang *et al.*, 2020
	RMSE		0-4	4.5-5.9		2075-5341	602-769								
4	Film-mulched drip irrigation	✓	✓	✓	✓				✓					China	Li *et al.*, 2019
5	Future climate/ uncertainty assessment		✓	✓	✓	✓	✓			✓	✓	✓	✓	Pakistan	Habib ur Rahman *et al.*, 2018
	Error%		0-1.6	1.3-2.5	0.4-0.7		1.3-4.4			0.9-5.1	0.8-2.9	1-4.6	0.8-1.3		
6	Nitrogen Levels and Planting Dates		✓	✓	✓	✓	✓							Pakistan	Arshad *et al.*, 2017
	RMSE		0.57-0.81	0-1.12	0.23-0.40	274-582	153-582								
7	Two cultivars/ 3 P rates		✓	✓		✓	✓						✓	Pakistan	Amin *et al.*, 2017
	%Error/RMSE		0-1.5/0-1	0-1.2/0-2		7-19/0.57-1.47	4.4-15/0.09-0.32								

Table S6: Summary of the performance of CSM-CANEGRO-Sugarcane (a), CSM-OILCROP-Sunflower (b), and CSM-SUBSTOR-Potato (c) models to simulate phenology, growth, and yield for different management practices in south Asia and China.

S. No	Experiment	Variables														Countries	References
		Emergence	Anthesis	Tuber initiation	Maturity	Peak tillering	Total dry matter/ yield	LAI/ Leaf area	Fresh cane yield	Stalk fresh mass	Sucrose mass	Achene yield	Oil content	SWC	Leaf N	ET	
a	**Sugarcane**																
1	Four cultivars/3 sowing dates	✓			✓	✓		✓	✓								India	Singh *et al.*, 2018
	RMSE	2.29-4.07			7.32-8.42	3.37-4.79		0.19-0.34	467-865								
2	Ten cultivars									✓	✓						India	Bhengra *et al.*, 2016
	RMSE									5960-7500	9250-11750						
b	**Sunflower**																
1	N productivity//4 irrigation/3 N rates		✓		✓		✓	✓				✓	✓	✓	✓	✓	Pakistan	Awais *et al.*, 2017
	Error%		0-6		0--4		0.4 -18	25 to +6				5 - 17	15 to 12		0.16-0.71		
2	Sunflower hybrids under different agro-meteorological conditions		✓		✓		✓	✓				✓	✓				Pakistan	Nasim *et al.*, 2016
	RMSE						5.22					1.66					
c	**Potato**																
1	Climate warming/potato phenology			✓	✓												Pakistan	Naz *et al.*, 2022
2	Climate change/potato productivity						✓										India	Goswami *et al.*, 2018
	RMSE											2730-3810					