

UNIVERSIDAD NACIONAL AUTÓNOMA DE MÉXICO POSGRADO EN CIENCIAS DE LA TIERRA CENTRO DE CIENCIAS DE LA ATMOSFERA

EMULACIÓN DE MODELOS AGRÍCOLAS MEDIANTE MÉTODOS ESTADÍSTICOS PARA PROYECTAR LOS IMPACTOS DEL CAMBIO CLIMÁTICO EN LA PRODUCCIÓN DE CULTIVOS A NIVEL GLOBAL

ANEXOS

CIUDAD DE MEXICO, FEBRERO DE 2020

Tabla A1. Cultivos y disponibilidad de proyecciones del modelo EPIC

	CO2-FIRR	CO2_NOIRR	NOCO2-FIRR	NOCO2_NOIRR
	-	RCP2.6	-	RCP2.6
A	RCP4.5	RCP4.5	RCP4.5	RCP4.5
Arroz	RCP6.0	RCP6.0	RCP6.0	RCP6.0
	RCP8.5	RCP8.5	RCP8.5	RCP8.5
	-	-	-	-
Conolo	-	RCP4.5	-	-
Canola	-	-	-	-
		RCP8.5	RCP8.5	RCP8.5
	-	-	-	-
Coão	RCP4.5	RCP4.5	-	-
Caña	-	-	-	-
	RCP8.5	RCP8.5	RCP8.5	RCP8.5
	-	-	-	-
Cabada	RCP4.5	RCP4.5	-	-
Cebada	-	-	-	-
	RCP8.5		RCP8.5	RCP8.5
	RCP2.6	RCP2.6	-	RCP2.6
M-Z-	RCP4.5	RCP4.5	RCP4.5	RCP4.5
Maíz	-	RCP6.0	RCP6.0	RCP6.0
	RCP8.5	RCP8.5	RCP8.5	RCP8.5
	-	-	-	-
Mila	RCP4.5	RCP4.5	-	-
Mijo	-	-	-	-
	RCP8.5	RCP8.5		RCP8.5
	-	-	-	
Sorgo	RCP4.5	RCP4.5	RCP4.5	RCP4.5
Sorgo	-	-	-	-
	RCP8.5		RCP8.5	RCP8.5
	RCP2.6	RCP2.6	-	RCP2.6
Cove	RCP4.5	RCP4.5	RCP4.5	RCP4.5
Soya	-	RCP6.0	RCP6.0	RCP6.0
	RCP8.5	RCP8.5	RCP8.5	RCP8.5
	RCP2.6	RCP2.6	RCP2.6	RCP2.6
Truit -	RCP4.5	RCP4.5	RCP4.5	RCP4.5
Trigo	RCP6.0	RCP6.0	RCP6.0	RCP6.0
	RCP8.5	RCP8.5	RCP8.5	RCP8.5

Tabla A2. Resultados de la prueba Hausman para las especificaciones e1 y e2 del cultivo de arroz

Especificación	Test statistic	Test statistic	Test statistic	Test statistic
	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)
e1 CO ₂ - FIRR		9012.9082	13221.6738	20511.9453
er CO ₂ - FIKK	ı	(0.0000)	(0.0000)	(0.0000)
e2 CO ₂ - FIRR		8944.52637	6540.93164	8582.74902
ez CO ₂ - FIRK	-	(0.0000)	(0.0000)	(0.0000)
e1 CO ₂ - NOIRR	5733.72607	9936.97266	9016.2168	20383.5625
er CO ₂ - NOIKK	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 CO ₂ – NOIRR	3188.28003	11241.1895	8147.6416	14761.7861
ez CO ₂ – NOIKK	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e1 NOCO ₂ - FIRR		71068.4844	88167.9219	89679.5078
er Noco ₂ - rikk	ı	(0.0000)	(0.0000)	(0.0000)
e2 NOCO2 - FIRR		71728.2813	86019.0078	314849.375
ez NOCO2 - MKK	ı	(0.0000)	(0.0000)	(0.0000)
e1 NOCO ₂ - NOIRR	16213.9072	41664.7227	52692.5625	307625.094
CI NOCO2 - NOIKK	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 NOCO ₂ - FIRR	11794.3613	51953.4961	55477.3945	339079.344
EZ NOCO2 - FIRK	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Tabla A3. Resultados de la prueba Hausman para las especificaciones e1 y e2 del cultivo de canola

Especificación	Test statistic	Test statistic	Test statistic	Test statistic
	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)
e1 CO ₂ - FIRR	-	-	-	1
e2 CO ₂ - FIRR	-	-	-	-
e1 CO ₂ - NOIRR	-	6835.05859	-	9270.37598
		(0.0000)		(0.0000)
e2 CO ₂ – NOIRR	_	4700.38184	_	6219.16602
02 002 1101141		(0.0000)		(0.0000)
e1 NOCO ₂ - FIRR				22584.7012
CI NOCO2-TIKK	_	_	_	(0.0000)
-2 NOCO FIRE				59695.8242
e2 NOCO ₂ - FIRR	-	-	-	(0.0000)
1 NOCO NOIDD				10965.835
e1 NOCO ₂ - NOIRR	-	-	-	(0.0000)
-2 NOCO FIRE				10616.5039
e2 NOCO ₂ - FIRR	-	-	-	(0.0000)

Tabla A4. Resultados de la prueba Hausman para las especificaciones e1 y e2 del cultivo de caña

Especificación	Test statistic	Test statistic	Test statistic	Test statistic
	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)
e1 CO ₂ - FIRR		333192.6563		70481.88281
er co ₂ - rikk	ı	(0.0000)	-	(0.0000)
e2 CO ₂ - FIRR		55716.72266		71361.46875
62 CO ₂ - 1 TKK	ı	(0.0000)	-	(0.0000)
e1 CO ₂ - NOIRR		535225		131417.8906
er CO ₂ - NOIKK	-	(0.0000)	-	(0.0000)
e2 CO ₂ – NOIRR		64622.06641		18659.86719
ez co ₂ – Norkk	ı	(0.0000)	-	(0.0000)
e1 NOCO2 - FIRR				132831.0938
er Noco ₂ - MKK	ı	-	-	(0.0000)
e2 NOCO ₂ - FIRR				174131.0625
ez NOCO2-TIKK	ı	-	-	(0.0000)
e1 NOCO ₂ - NOIRR				343007.75
er noco ₂ - nork	-	-	=	(0.0000)
e2 NOCO ₂ - FIRR				23746.98438
EZ NOCO2 - FIRK	=	-	-	(0.0000)

Tabla A5. Resultados de la prueba Hausman para las especificaciones e1 y e2 del cultivo de cebada

Especificación	Test statistic	Test statistic	Test statistic	Test statistic
	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)
e1 CO ₂ - FIRR	_	4472.547852	_	3545.962891
C1 CO2 - 1 1KK	_	(0.0000)	_	(0.0000)
e2 CO ₂ - FIRR		3336.954102		2900.666748
C2 CO ₂ - 1 1KK	_	(0.0000)	_	(0.0000)
e1 CO ₂ - NOIRR		2931.967773		
er CO ₂ - NOIKK	-	(0.0000)	-	-
e2 CO ₂ – NOIRR		1238.348633		
C2 CO ₂ = NOIRK	_	(0.0000)	_	-
e1 NOCO ₂ - FIRR				28616.10938
C1 110CO2-11IKK	_	_	_	(0.0000)
e2 NOCO ₂ - FIRR				25143.20117
62 NOCO2 - MRK	-	-	-	(0.0000)
e1 NOCO2 - NOIRR				10694.24609
ei Noco ₂ - Noikk	=	-	=	(0.0000)
e2 NOCO ₂ - FIRR				18837.57813
62 NOCO ₂ - FIRK	-	-	-	(0.0000)

Tabla A6. Resultados de la prueba Hausman para las especificaciones e1 y e2 del cultivo de maíz

Especificación	Test statistic	Test statistic	Test statistic	Test statistic
	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)
e1 CO ₂ - FIRR	1589.443848	22335.96289		101884.8906
er CO ₂ - FIKK	(0.0000)	(0.0000)	=	(0.0000)
e2 CO ₂ - FIRR	766.9540405	25005.49805		102148.6094
ez CO2 - FIKK	(0.0000)	(0.0000)	=	(0.0000)
e1 CO ₂ - NOIRR	2616.310547	14032.7832	14570.73926	43544.80469
er co ₂ - Norkk	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 CO ₂ – NOIRR	1625.5354	16597.5625	14545.7207	85907.80469
ez co ₂ – Norkk	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e1 NOCO ₂ - FIRR		54371.51563	63751.46875	221242.5156
ei NOCO2 - FIRK	ı	(0.0000)	(0.0000)	(0.0000)
e2 NOCO ₂ - FIRR		56986.44922	65783.98438	412142.625
ez NOCO2 - FIRR	ı	(0.0000)	(0.0000)	(0.0000)
e1 NOCO ₂ - NOIRR	6684.789551	37870.39453	43595.46094	34582.61328
ei noco ₂ - noikk	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 NOCO2 - FIRR	5103.171387	50433.96875	55894.36719	2543970.5
CZ NOCO2 - PIKK	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Tabla A7. Resultados de la prueba Hausman para las especificaciones e1 y e2 del cultivo de mijo

Especificación	Test statistic	Test statistic	Test statistic	Test statistic
	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)
e1 CO ₂ - FIRR	_	6915.09082	_	16160.90625
C1 CO2-1 HGC	_	(0.0000)	_	(0.0000)
e2 CO ₂ - FIRR		7132.490234		20349.69336
62 CO ₂ - 1 TKK	ı	(0.0000)	-	(0.0000)
e1 CO ₂ - NOIRR		7754.313477		9712.042969
er CO ₂ - NOIRK	ı	(0.0000)	-	(0.0000)
e2 CO ₂ – NOIRR		7934.34668		41799.75781
ez co ₂ – Norkk	ı	(0.0000)	-	(0.0000)
e1 NOCO ₂ - FIRR				-
er noco ₂ -rakk	-	-	_	
e2 NOCO2 - FIRR				-
62 NOCO2-1 IICK	_	_	_	
e1 NOCO2 - NOIRR	_	_	_	27585.55664
C1 110CO2 - 110IRK	-	_	_	(0.0000)
e2 NOCO ₂ - FIRR				48685.36328
EZ NOCO2 - FIRK	-	=	=	(0.0000)

Tabla A8. Resultados de la prueba Hausman para las especificaciones e1 y e2 del cultivo de sorgo

Especificación	Test statistic	Test statistic	Test statistic	Test statistic
	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)
e1 CO ₂ - FIRR		23241.04297		123127.125
C1 CO ₂ - 14KK		(0.0000)	_	(0.0000)
e2 CO ₂ - FIRR	-	25301.47266	_	125670.2969
C2 CO ₂ - 1 IKK		(0.0000)	_	(0.0000)
e1 CO ₂ - NOIRR	_	22487.88086	_	_
C1 CO2 - 1VOIRIX		(0.0000)	_	_
e2 CO ₂ – NOIRR	_	51384.85938	_	_
C2 CO2 - NOIKK		(0.0000)	_	-
e1 NOCO ₂ - FIRR				47478.11719
C1 110CO2-11IKK		_	_	(0.0000)
e2 NOCO ₂ - FIRR	_	_	_	57155.02734
62 110CO2-1 IIdk		_	_	(0.0000)
e1 NOCO ₂ - NOIRR	_	_	_	39937.80469
C1 110CO2 - 110HKK	_	_	_	(0.0000)
e2 NOCO ₂ - FIRR				68641.94531
62 NOCO2-1 NK	-	_	_	(0.0000)

Tabla A9. Resultados de la prueba Hausman para las especificaciones e1 y e2 del cultivo de soya

Especificación	Test statistic	Test statistic	Test statistic	Test statistic	
	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)	
e1 CO ₂ - FIRR	3962.501953	2169.650635		6862.92041	
er co ₂ - rikk	(0.0000)	(0.0000)	-	(0.0000)	
e2 CO ₂ - FIRR	1812.357178	1276.440063		5355.512695	
62 CO ₂ - FIRK	(0.0000)	(0.0000)	-	(0.0000)	
e1 CO ₂ - NOIRR	6064.855957	6391.27002	5054.617676	7610.79248	
er CO ₂ - NOIKK	(0.0000)	(0.0000)	(0.0000)	(0.0000)	
e2 CO ₂ – NOIRR	3790.445313	5020.491211	2947.943115	11902.0752	
ez CO2 – NOIKK	(0.0000)	(0.0000)	(0.0000)	(0.0000)	
e1 NOCO ₂ - FIRR		35654.84375	36393.83203	73040.01563	
C1 110CO2-11IKK	-	(0.0000)	(0.0000)	(0.0000)	
e2 NOCO ₂ - FIRR		32074.13672	33305.08203	72179.03125	
C2 110CO2-11IKK	-	(0.0000)	(0.0000)	(0.0000)	
e1 NOCO2 - NOIRR	8430.041992	33573.43359	35334.9375	54396.28906	
CI NOCO2 - NOIKK	(0.0000)	(0.0000)	(0.0000)	(0.0000)	
e2 NOCO2 - FIRR	6603.564453	21137.97461	14860.16309	92158.33594	
C2 11OCO2 - TTKK	(0.0000)	(0.0000)	(0.0000)	(0.0000)	

Tabla A10. Resultados de la prueba Hausman para las especificaciones e1 y e2 del cultivo de trigo

Especificación	Test statistic	Test statistic	Test statistic	Test statistic
	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)
e1 CO ₂ - FIRR	4267.826172	7533.820801	4431.039063	6812.992188
el CO ₂ - FIRK	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 CO ₂ - FIRR	1850.427856	5978.194336	3054.654053	6079.217285
ez CO ₂ - FIRK	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e1 CO ₂ - NOIRR	1830.862915	2929.195557	4746.47168	7498.226563
er co ₂ - norkk	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 CO ₂ – NOIRR	781.1159668	1679.09729	1701.042358	3376.75708
ez co ₂ – Norkk	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e1 NOCO ₂ - FIRR	10024.07422	20640.01172	32445.45508	36294.8125
er Noco ₂ - MRK	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 NOCO ₂ - FIRR	7899.47998	38750.26172	28630.73242	110326.9141
62 NOCO2 - MRK	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e1 NOCO ₂ - NOIRR	1601.249634	9235.779297	7044.724609	7702.205566
CI NOCO2 - NOIKK	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 NOCO2 - FIRR	748.9317017	11723.61426	8098.852051	9692.912109
C2 NOCO2 - TIKK	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Tabla A11. Prueba de variables redundantes para los efectos fijos de sección cruzada y de periodo temporal bajo las especificaciones e1 y e2 del cultivo de arroz

	CO ₂ -	FIRR	CO ₂ - 1	NOIRR	NOCO ₂	- FIRR	NOCO ₂	- NOIRR
Effects test	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic
	(e1)	(e2)	(e1)	(e2)	(e1)	(e2)	(e1)	(e2)
Sección Cruzada (F-	- a	- a	256.183494a	376.374476a	- a	-a	243.132351a	361.282938a
statistic)	-	-	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
	54.336982b	64.605107b	61.042888b	107.4542b	45.129003b	54.451259b	49.66477b	86.169052b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	143.503954c	172.995047c	44.26588c	78.40916c	33.240656c	40.746554c	36.152385c	61.425845c
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	23.160189d	26.606945d	28.86181d	47.387169d	18.464337d	21.643129d	18.464337d	33.845749d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Sección Cruzada Chi ²	- a	- a	457985.396a	493994.654a	- a	- a	453097.78a	490159.51a
	-	-	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
	314546.168b	330317.776b	325143.011b	377121.222b	297730.657b	314732.765b	306388.696b	356745.251b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	403950.969c	421335.993c	295989.03c	348064.584c	270340.747c	288530.071c	277821.021c	325709.291c
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	238592.982d	250685.962d	257838.959d	302136.23d	219128.12d	232728.992d	219128.12d	271940.628d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Periodo (F-statistic)	- a	- a	1373.41175a	2841.76374a	- a	- a	403.332359a	900.014743a
	-	-	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
	3105.2519b	3216.12158b	2840.63146b	2735.84845b	426.104547b	448.306063b	606.537878b	518.200816b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	1870.21636c	2221.96411c	2734.12842c	2954.63967c	280.255238c	411.064008c	442.757915c	332.865451c
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	5899.95612d	5838.33916d	6110.39056d	5118.61563d	836.642882d	845.602378d	836.642882d	521.708057d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Periodo Chi ²	- a	- a	4033.13315a	8161.9008a	- a	- a	1202.42688a	2662.24922a
	-	-	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
	8884.45191b	9186.26263b	8159.15889b	7870.05032b	1269.86056b	1335.49457b	1802.46576b	1542.01448b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	5450.54232c	6441.06111c	7865.66373c	8471.93955c	837.129655c	1225.26934c	1319.14447c	993.404754c
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	16221.7538d	16065.2869d	16751.7779d	14226.644d	2477.35356d	2503.41585d	2477.35356d	1552.36551d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Sección	- a	- a	256.186236a	376.366123a	- a	- a	243.347609a	361.448561a
Cruzada/Periodo (F-	-	-	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
statistic)	54.606164b	64.914911b	61.167297b	107.770723b	47.298602b	56.731702b	51.097211b	88.041059b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	143.79651c	173.331942c	44.354242c	78.641702c	35.863076c	43.473284c	37.984959c	63.596823c
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	23.984707d	27.600232d	29.325182d	48.482257d	22.597485d	26.151327d	22.597485d	37.833663d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Sección	- a	- a	457992.35a	493998.543a	- a	- a	453186.436a	490208.425a
Cruzada/Periodo Chi ²	-	-	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
	315001.095b	330760.85b	325334.58b	377399.198b	301977.179b	318470.028b	308971.343b	358730.743b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	404146.148c	421523.147c	296174.555c	348342.536c	277109.479c	294362.289c	282247.267c	328886.299c
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	241636.813d	253907.681d	259248.786d	304208.449d	236467.249d	249178.763d	236467.249d	281885.785d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Tabla A12. Prueba de variables redundantes para los efectos fijos de sección cruzada y de periodo temporal bajo las especificaciones e1 y e2 del cultivo de canola

	CO ₂ -	FIRR	CO ₂ - 1	NOIRR	NOCO ₂	2 - FIRR	NOCO ₂	- NOIRR
Effects test	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic
	(e1)	(e2)	(e1)	(e2)	(e1)	(e2)	(e1)	(e2)
Sección Cruzada (F-	-a	-a	-a	-a	-a	-a	-a	-a
statistic)	-	-	-	-	-	-	-	-
	85.481257b	89.068333b	63.098718b	75.435614b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-с	-c	-c	-c	-c	-с	-c	-с
	-	-	-	-	-	-	-	-
	23.027394d	24.116173d	23.701839d	27.821194d	28.124504d	29.384421d	24.367016d	28.956331d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Sección Cruzada Chi ²	-a	-a	-a	-a	-a	-a	-a	-a
	-	-	-	-	-	-	-	-
	356011.737b	359793.788b	328166.629b	344514.098b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-c	-c	-c	-c	-c	-c	-c	-с
	-	-	-	-	-	-	-	-
	238094.347d	242102.633d	240599.925d	254602.848d	255560.559d	259416.976d	243007.485d	258122.893d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Periodo (F-statistic)	-a	-a	-a	-a	-a	-a	-a	-a
	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	353.825986b	290.919389b	529.835515b	453.077993b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	-с	-с	-с	-с	-с	-с	-с	-с
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	3068.05729d	3065.17703d	50.290027d	16.8583d	809.37128d	860.107841d	328.968809d	572.07303d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Periodo Chi ²	-a	-a	-a	-a	-a	-a	-a	-a
	-	-	-	-	-	-	-	-
	1055.66044b	868.796023b	1576.42261b	1349.60873b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-c	-c	-c	-c	-c	-c	-c	-c
	- 0702 04272 1	-	- 150.7662121	-	- 2207 (102 1	-	-	- 1700 002041
	8782.84252d	8774.5694d	150.766213d	50.564551d	2397.6192d	2545.78446d	981.882634d	1700.88384d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Sección Cruzada/Periodo	-a							
(F-statistic)	-	-	-	-	-	-	-	-
	85.626536b	89.205034b	63.152694b	75.441632b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-c	-с						
	-	-	-	-	-	-	-	-
	23.40685d	24.45909d	23.797496d	27.828538d	28.675966d	29.91978d	24.370639d	29.018527d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Sección Cruzada/Periodo	-a							
Chi ²	-	-	-	-	-	-	-	-
	356173.947b	359940.988b	328250.538b	344527.266b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-c	-c	-с	-c	-c	-c	-c	-с
	-	-	-	-	-	-	-	-
	239517.751d	243337.332d	240955.495d	254631.647d	257275.452d	261016.331d	243025.976d	258317.626d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Tabla A13. Prueba de variables redundantes para los efectos fijos de sección cruzada y de periodo temporal bajo las especificaciones e1 y e2 del cultivo de caña

	CO ₂ -	FIRR	CO ₂ - 1	NOIRR	NOCO ₂	2 - FIRR	NOCO ₂	- NOIRR
Effects test	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic
	(e1)	(e2)	(e1)	(e2)	(e1)	(e2)	(e1)	(e2)
Sección Cruzada (F-	-a	-a	-a	-a	-a	-a	-a	-a
statistic)	-	-	-	-	-	-	-	-
	20.736695b	30.654408b	18.508323b	35.390876b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-с	-с	-с	-с	-c	-c	-c	-c
	-	-	-	-	-	-	-	-
	7.29602d	8.946821d	7.050191d	11.08544d	6.688912d	8.69273d	6.505308d	9.985141d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Sección Cruzada Chi ²	-a	-a	-a	-a	-a	-a	-a	-a
	-	-	-	-	-	-	-	-
	229049.647b	263154.682b	219330.429b	275917.05b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-c	-c	-c	-c	-c	-с	-c	-c
	-	-	-	-	-	-	-	-
	144775.332d	160174.014d	142250.034d	176988.475d	138411.4552d	157961.1429d	136399.055d	168712.502d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Periodo (F-statistic)	-a	-a	-a	-a	-a	-a	-a	-a
	-	-	-	-	-	-	-	-
	1424.15067b	1217.70929b	1067.54748b	804.012421b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-с	-c	-с	-c	-с	-c	-c	-c
	-	-	-	-	-	-	-	-
	2882.02124d	2296.09252d	2449.40004d	1812.1901d	2850.11738d	2667.020161d	2236.12359d	1906.5157d
7 1 2 21 2	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Periodo Chi ²	-a	-a	-a	-a	-a	-a	-a	-a
	-	-	-	-	-	-	-	-
	4178.87542b	3584.3135b	3149.762b	2381.83116b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-c	-c	-c	-c	-c	-c	-c	-c
	- 0272 07220 1	-	7076 50622 1		- 0105 055050 1	-	- (401.00(11.1	
	8272.97229d	6648.53688d	7076.50633d	5285.84041d	8185.255358d	7679.907657d	6481.02611d	5553.01754d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Sección	-a	-a	-a	-a	-a	-a	-a	-a
Cruzada/Periodo (F-	-	-	-	-	-	-	-	-
statistic)	22.89904b	32.923649b	20.67263b	37.712592b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-c	-c	-c	-c	-c	-с	-c	-с
	-	-	-	-	-	-	-	-
	8.547731d	10.316693d	8.53945d	12.811154d	8.68917d	10.826886d	8.614599d	12.243934d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Sección	-a	-a	-a	-a	-a	-a	-a	-a
Cruzada/Periodo Chi ²	-	-	-	-	-	-	-	-
	237615.388b	269490.732b	228789.247b	281598.962b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-с	-c	-c	-с	-с	-с	-c	-с
	-	-	-	-	-	-	-	-
	156683.174d	171288.708d	156609.175d	188666.219d	157938.3026d	175113.1275d	157278.643d	184986.7789d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Tabla A14. Prueba de variables redundantes para los efectos fijos de sección cruzada y de periodo temporal bajo las especificaciones e1 y e2 del cultivo de cebada

	CO ₂ -	FIRR	CO ₂ - 1	NOIRR	NOCO ₂	- FIRR	NOCO ₂ ·	- NOIRR
Effects test	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic
	(e1)	(e2)	(e1)	(e2)	(e1)	(e2)	(e1)	(e2)
Sección Cruzada (F-	-a	-a	-a	-a	-a	-a	-a	-a
statistic)	-	-	-	-	-	-	-	-
	85.633412b	82.562293b	64.768793b	73.236279b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-c	-с	-с	-с	-c	-c	-c	-c
	-	-	-	-	-	-	-	-
	26.065991d	25.848155d	-d	-d	28.300722d	29.008655d	25.860726d	28.32186d
	(0.0000)	(0000)	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Sección Cruzada Chi ²	-a	-a	-a	-a	-a	-a	-a	-a
	-	-	-	-	-	-	-	-
	356175.478b	352809.742b	330553.418b	341799.196b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-c	-c	-c	-c	-c	-c	-c	-с
	-	-	-	-	-	-	-	-
	248891.312d	248152.951d	-d	-d	256110.1343d	258282.0201d	248199.653d	256171.639d
	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Periodo (F-statistic)	-a	-a	-a	-a	-a	-a	-a	-a
	-	-	-	-	-	-	-	-
	2794.22418b	2229.0458b	3161.80414b	2612.27622b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-c	-с	-c	-с	-с	-с	-с	-с
	-	-	-	-	-	-	-	-
	1102.9298d	689.325778d	-d	-d	253.453146d	389.336268d	98.52326d	336.91379d
	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Periodo Chi ²	-a	-a	-a	-a	-a	-a	-a	-a
	-	-	-	-	-	-	-	-
	8031.38464b	6460.90159b	9038.73345b	7528.39947b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-c	-с	-c	-c	-с	-с	-c	-с
	-	-	-	-	-	-	-	-
	3252.37481d	2045.73945d	-d	-d	757.391972d	1160.902183d	295.140001d	1005.4224d
	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Sección	-a							
Cruzada/Periodo (F-	-	-	-	-	-	-	-	-
statistic)	85.671351b	82.587302b	64.864621b	73.251201b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-c							
	-	-	-	-	-	-	-	-
	26.082568d	25.853d	-d	-d	29.647459d	30.290028d	26.041996d	28.736725d
	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Sección	-a							
Cruzada/Periodo Chi ²	-	-	-	-	-	-	-	-
	356222.125b	352843.462b	330694.375b	341823.722b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-c							
	-	-	-	-	-	-	-	-
	248952.522d	248174.914d	-d	-d	260213.231d	262102.984d	248816.292d	257457.688d
	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Tabla A15. Prueba de variables redundantes para los efectos fijos de sección cruzada y de periodo temporal bajo las especificaciones e1 y e2 del cultivo de maíz

	CO ₂ -	FIRR	CO ₂ - 1	NOIRR	NOCO ₂	- FIRR	NOCO ₂	- NOIRR
Effects test	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic
	(e1)	(e2)	(e1)	(e2)	(e1)	(e2)	(e1)	(e2)
Sección Cruzada (F-	321.815529a	347.528024a	298.63174a	404.139616a	-a	-a	293.255388a	400.078272a
statistic)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
	70.253071b	81.632766b	97.217143b	159.628142b	60.21033b	70.249141b	85.326605b	141.035483b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	-c	-с	66.882901c	111.095377c	41.439953c	49.380073c	58.131818c	96.679744c
	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	26.379506d	30.506191d	36.77528d	55.530108d	24.186455d	28.274909d	32.479349d	48.539128d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Sección Cruzada Chi ²	479327.469a	486522.63a	472327.759a	500666.902a	-a	-a	470627.452a	499719.931a
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
	337991.386b	351768.276b	367873.264b	413849.008b	323890.376b	337981.885b	355845.018b	402334.308b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	-c	-c	333490.592c	380204.733c	290050.527c	305863.714c	320688.452c	367357.112c
	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	249938.025d	262726.028d	279346.952d	316516.506d	242360.016d	256025.625d	268282.901d	304308.775d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Periodo (F-statistic)	1181.23319a	2249.08394a	718.385452a	1960.51285a	-a	-a	355.278229a	1071.12023a
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
	1255.53874b	1409.86332b	1284.83741b	1262.59889b	140.531947b	216.283384b	243.43456b	238.961342b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	-c	-c	702.512553c	801.259484c	153.969351c	64.154232c	190.353182c	112.581195c
	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	1574.76349d	1575.3473d	1946.16568d	1389.29947d	143.115974d	163.188947d	248.899626d	91.99075d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Periodo Chi ²	3479.0672a	6517.01898a	2131.11356a	5705.62411a	-a	-a	1059.96902a	3159.98002a
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
	3693.68247b	4137.66594b	3778.17104b	3713.87481b	420.702228b	646.667321b	727.568797b	714.215957b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	-с	-c	2084.5431c	2373.77765c	460.830776c	192.278633c	569.399268c	337.161142c
	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	4610.1721d	4611.6251d	5665.36291d	4078.60257d	428.420318d	488.330405d	743.838291d	275.586414d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Sección	321.796557a	347.507598a	298.614982a	404.116375a	-a	-a	293.366944a	400.156368a
Cruzada/Periodo (F-	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
statistic)	70.985021b	82.4676b	97.72378b	160.572005b	62.084641b	72.253611b	86.712276b	143.034088b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	-c	-с	67.487785c	112.110588c	43.58941c	51.644383c	59.860895c	98.967581c
	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	28.812479d	33.343154d	38.431838d	58.251035d	27.969219d	32.549839d	35.465721d	52.67469d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Sección	479327.911a	486523.089a	472328.466a	500667.48a	-a	-a	470669.005a	499744.201a
Cruzada/Periodo Chi ²	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
	338946.945b	352710.028b	368359.06b	414403.576b	326693.109b	340566.257b	357334.264b	403647.685b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	-c	-c	334320.222c	381052.665c	294606.909c	309933.033c	323365.433c	369522.589c
	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	257693.838d	270615.818d	283294.496d	320876.526d	255079.196d	268476.75d	276115.409d	311725.57d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Tabla A16. Prueba de variables redundantes para los efectos fijos de sección cruzada y de periodo temporal bajo las especificaciones e1 y e2 del cultivo de mijo

	CO ₂ -	FIRR	CO ₂ - N	NOIRR	NOCO ₂	- FIRR	NOCO ₂ ·	- NOIRR
Effects test	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic
	(e1)	(e2)	(e1)	(e2)	(e1)	(e2)	(e1)	(e2)
Sección Cruzada (F-	-a	-a	-a	-a	-a	-a	-a	-a
statistic)	-	-	-	-	-	-	-	-
	26.754363b	33.045041b	43.119988b	80.166953b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-c	-c	-с	-c	-c	-c	-c	-c
	-	-	-	-	-	-	-	-
	15.047453d	18.033008d	13.604108d	17.089589d	-d	-d	19.347472d	34.638929d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
Sección Cruzada Chi ²	-a	-a	-a	-a	-a	-a	-a	-a
	-	-	-	-	-	-	-	-
	251174.461b	269812.022b	293625.939b	350102.188b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-с	-c	-с	-с	-c	-c	-c	-с
	-	-	-	-	-	-	-	-
	201914.86d	217116.858d	193579.102d	212571.648d	-d	-d	223109.081d	274002.848d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
Periodo (F-statistic)	-a	-a	-a	-a	-a	-a	-a	-a
	-	-	-	-	-	-	-	-
	1329.58352b	1316.77053b	1447.97549b	1416.08458b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-с	-с	-с	-с	-с	-c	-с	-с
	-	-	-	-	-	-	-	-
	1847.65425d	1626.84067d	421.958207d	399.999818d	-d	-d	414.179866d	227.785422d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
Periodo Chi ²	-a	-a	-a	-a	-a	-a	-a	-a
	-	-	-	-	-	-	-	-
	3907.05939b	3869.9893b	4247.23204b	4155.52733b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-c	-c	-c	-c	-c	-c	-c	-c
	-	-	-	-	-	-	-	-
	5386.63151d	4758.62115d	1257.58589d	1192.49782d	-d	-d	1234.55486d	680.933378d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)

Sección Cruzada/Periodo	-a	-a	-a	-a	-a	-a	-a	-a
(F-statistic)	-	-	-	-	-	-	-	-
	26.858938b	33.182342b	43.1541b	80.316041b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-с	-c	-c	-с	-с	-c	-с	-с
	-	-	-	-	-	-	-	-
	15.587823d	18.750635d	14.96179d	18.762948d	-d	-d	20.531534d	36.665392d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	=	-	(0.0000)	(0.0000)
Sección Cruzada/Periodo	-a	-a	-a	-a	-a	-a	-a	-a
Chi ²	-	-	-	-	-	-	-	-
	251522.103b	270186.115b	293702.883b	350278.852b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-с	-c	-c	-с	-с	-c	-c	-c
	-	-	-	-	-	-	-	-
	204860.558d	220438.554d	201445.484d	220494.449d	-d	-d	228201.031d	279080.965d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)

Tabla A17. Prueba de variables redundantes para los efectos fijos de sección cruzada y de periodo temporal bajo las especificaciones e1 y e2 del cultivo de sorgo

	CO ₂ -	FIRR	CO ₂ - I	NOIRR	NOCO ₂	- FIRR	NOCO ₂	- NOIRR
Effects test	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic
	(e1)	(e2)	(e1)	(e2)	(e1)	(e2)	(e1)	(e2)
Sección Cruzada (F-	-a	-a	-a	-a	-a	-a	-a	-a
statistic)	-	-	-	-	-	-	-	-
	26.521009b	31.230142b	42.428466b	80.079765b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-с	-c	-c	-c	-с	-с	-с	-c
	-	-	-	-	-	-	-	-
	12.542789d	14.624753d	-d	-d	13.016008d	15.452714d	19.037565d	34.857083d
	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Sección Cruzada Chi ²	-a	-a	-a	-a	-a	-a	-a	-a
	-	-	-	-	-	-	-	-
	250406.67b	264801.485b	292170.649b	350002.152b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-с	-c	-c	-c	-с	-с	-с	-с
	-	-			-	-	-	-
	186941.996d	199545.094d	-d	-d	189959.225d	204124.628d	221731.168d	274562.21d
	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Periodo (F-statistic)	-a	-a	-a	-a	-a	-a	-a	-a
	-	-	-	-	-	-	-	-
	684.250238b	726.769711b	1049.59687b	1003.36246b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-с	-c	-c	-c	-с	-с	-с	-c
	-	-	-	-	-	-	-	-
	533.589676d	496.150165d	-d	-d	444.707807d	480.84903d	485.25493d	287.049556d
5 1 1 5112	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Periodo Chi ²	-a	-a	-a	-a	-a	-a	-a	-a
	-	-	-	-	-	-	-	-
	2030.93369b	2155.60157b	3097.66038b	2963.19294b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-c	-c	-c	-c	-c	-c	-c	-c
	1507 40001 1	1476 00060 1	-	-	-	- 1 421 70647 1	-	- 057.001.640.1
	1587.49881d	1476.90969d	-d	-d	1324.91328d	1431.70647d	1444.79326d	857.291642d
	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Sección	-a	-a	-a	-a	-a	-a	-a	-a
Cruzada/Periodo (F-	-	-	-	-	-	-	-	-
statistic)	27.176568b	31.934533b	42.816661b	80.758612b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-c	-c	-с	-c	-с	-c	-c	-c
	-	-	-	-	-	-	-	-
	15.629689d	18.024829d	-d	-d	14.765102d	17.463023d	20.507994d	37.269251d
	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Sección	-a	-a	-a	-a	-a	-a	-a	-a
Cruzada/Periodo Chi ²	-	-	-	-	-	-	-	-
	252553.505b	266783.561b	292996.094b	350784.09b	-b	-b	-b	-b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	-	-
	-с	-c	-c	-c	-с	-с	-c	-c
	-	-	-	-	-	-	-	-
	205084.586d	217083.781d	-d	-d	200346.464d	214402.467d	228102.54d	280541.149d
	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Tabla A18. Prueba de variables redundantes para los efectos fijos de sección cruzada y de periodo temporal bajo las especificaciones e1 y e2 del cultivo de soya

	CO ₂ -	FIRR	CO ₂ - 1	NOIRR	NOCO ₂	- FIRR	NOCO ₂	- NOIRR
Effects test	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic
	(e1)	(e2)	(e1)	(e2)	(e1)	(e2)	(e1)	(e2)
Sección Cruzada (F-	190.915199a	205.901071a	186.744066a	269.889554a	-a	-a	181.727674a	270.465574a
statistic)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
	39.018387b	41.944048b	58.041893b	98.246254b	30.407695b	32.198047b	46.763197b	81.786219b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	-c	-c	39.600174c	68.743718c	20.507446c	22.206416c	31.310968c	56.697409c
	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	13.882743d	15.093589d	22.829478d	39.13826d	11.277418d	12.409031d	16.937979d	29.182979d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Sección Cruzada Chi ²	430526.634a	437571.234a	428467.012a	462854.705a	-a	-a	425928.868a	463054.115a
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
	284645.895b	291133.352b	320547.438b	368841.141b	262444.312b	267506.772b	300942.506b	351941.004b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	-c	-c	285972.943c	335997.837c	228094.778c	234947.519c	265034.62c	318409.2c
	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	195246.787d	202165.546d	237346.261d	284916.575d	178364.631d	186067.467d	211824.351d	258810.244d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Periodo (F-statistic)	2552.67602a	3451.36891a	2255.39423a	3769.33274a	-a	-a	700.819555a	1590.40285a
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
	2372.45201b	2530.89552b	2388.64415b	2507.25829b	548.874575b	695.702234b	606.782922b	638.912134b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	-c	-с	987.587708c	1246.16813c	5.478389c	36.008758c	128.72854c	117.109241c
	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	1963.98762d	2181.23939d	2387.22464d	2361.40545d	220.090579d	362.38476d	256.392445d	158.480028d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Periodo Chi ²	7363.51205a	9824.32225a	6534.98577a	10679.9234a	-a	-a	2079.57455a	4654.6273a
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
	6862.09665b	7302.72073b	6907.25535b	7237.07034b	1632.58165b	2064.4573b	1803.18704b	1897.621b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	-c	-c	2917.45693c	3666.47268c	16.435564c	107.971266c	385.439231c	350.696648c
	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	5715.7009d	6326.88316d	6903.29731d	6830.96147d	658.042146d	1080.99877d	766.139839d	474.274728d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Sección Cruzada/Periodo	190.993133a	205.97462a	186.817714a	269.945299a	-a	-a	181.756925a	270.484931a
(F-statistic)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
	39.040009b	41.960861b	58.051995b	98.317446b	31.525168b	33.249159b	47.510546b	82.90323b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	-с	-c	39.623936c	68.77494c	21.71877c	23.349465c	32.217032c	57.968757c
	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	14.094896d	15.301519d	22.942516d	39.582746d	13.499476d	14.690201d	18.810014d	31.961326d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Sección Cruzada/Periodo	430570.628a	437610.504a	428509.708a	462879.977a	-a	-a	425949.803a	463066.764a
Chi ²	(0.0000)	(0.0000)	(0.0000)	(0.0000)	-	-	(0.0000)	(0.0000)
	284701.259b	291175.123b	320569.091b	368913.913b	265644.215b	270364.893b	302381.4b	353194.728b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	-c	-с	286032.461c	336045.243c	233039.576c	239300.544c	267568.953c	320434.046c
	-	-	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	196502.315d	203310.103d	237779.768d	285934.89d	192950.386d	199920.589d	220711.868d	266857.925d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Tabla A19. Prueba de variables redundantes para los efectos fijos de sección cruzada y de periodo temporal bajo las especificaciones e1 y e2 del cultivo de trigo

	CO ₂ -	FIRR	CO ₂ - 1	NOIRR	NOCO ₂	- FIRR	NOCO ₂	- NOIRR
Effects test	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic	Test statistic
	(e1)	(e2)	(e1)	(e2)	(e1)	(e2)	(e1)	(e2)
Sección Cruzada (F-	418.652741a	411.165907a	181.264546a	208.343766a	398.192093a	395.259185a	184.711718a	213.407423a
statistic)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	101.528681b	99.0832b	72.227197b	82.825486b	96.330104b	97.812066b	74.156084b	85.422909b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	69.770051c	65.06443c	49.111546c	54.868901c	67.958517c	67.486703c	54.044833c	60.614319c
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	34.373261d	33.975295d	26.578771d	28.440287d	34.705286d	35.519523d	30.412114d	33.129722d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Sección Cruzada Chi ²	503979.649a	502283.055a	425691.055a	438671.849a	499281.357a	498583.792a	427446.929a	440913.255a
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	371881.358b	369624.543b	340531.274b	353102.55b	367027.076b	368432.15b	342948.535b	355944.474b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	337359.372c	330965.335c	305374.304c	315427.294c	334950.547c	334308.556c	314056.275c	324495.926c
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	273321.395d	272280.539d	250597.303d	256538.929d	274177.599d	276240.682d	262457.161d	270039.427d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Periodo (F-statistic)	61.650158a	89.671236a	976.700758a	1376.68364a	826.075252a	727.770305a	728.879201a	940.620791a
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	3963.986b	3238.72624b	3584.95615b	2910.24285b	1584.183b	1398.28942b	1787.23212b	1450.42881b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	2573.5324c	1315.94108c	2493.14397c	1499.21984c	1095.95661c	628.332893c	890.078935c	356.52058c
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	2551.70586d	1813.50568d	3145.39563d	2186.15325d	915.178081d	743.477565d	914.217997d	611.295471d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Periodo Chi ²	184.789767a	268.647498a	2885.78301a	4042.34913a	2446.46485a	2158.5356a	2161.88918a	2780.6068a
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	11200.4072b	9247.76106b	10185.1968b	8350.11553b	4637.08043b	4104.428b	5215.26238b	4254.06945b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	7421.36633c	3867.60089c	7198.1782c	4393.88611c	3232.1606c	1866.50895c	2633.38993c	1063.6042c
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	7360.82002d	5289.57201d	8993.995d	6340.66726d	2706.5918d	2204.58184d	2703.79275d	1816.3827d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Sección Cruzada/Periodo	418.630202a	411.143611a	181.332501a	208.404304a	398.442181a	395.49905a	184.735345a	213.429065a
(F-statistic)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	101.585071b	99.108764b	72.271595b	82.827233b	97.104694b	98.487528b	74.28727b	85.710039b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	69.765664c	65.063543c	49.325618c	54.936488c	68.48694c	67.940977c	54.090113c	60.766264c
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	34.383291d	33.980593d	26.974151d	28.593557d	35.197686d	35.906172d	30.448211d	33.271593d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Sección Cruzada/Periodo	503980.572a	502283.941a	425731.921a	438704.906a	499346.191a	498646.637a	427464.788a	440928.665a
Chi ²	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	371938.551b	369654.25b	340593.455b	353110.35b	367772.292b	369073.529b	343116.547b	356259.297b
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	337359.445c	330969.909c	305773.889c	315544.999c	335665.414c	334928.377c	314138.157c	324730.109c
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
	273353.046d	272300.08d	251897.526d	257017.774d	275438.89d	277212.402d	262567.667d	270424.844d
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Tabla A20. Resultados de la prueba de Wald modificada para heterocedasticidad grupal para las

especificaciones e1 y e2 del cultivo de arroz

Especificación	Test statistic	Test statistic	Test statistic	Test statistic
_	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)
e1 CO ₂ - FIRR		2.96E+10	4.69E+09	1.63E+10
e1 CO ₂ - 14KK	-	(0.0000)	(0.0000)	(0.0000)
e2 CO ₂ - FIRR		7.38E+12	1.03E+11	4E+12
62 CO ₂ - MKK	-	(0.0000)	(0.0000)	(0.0000)
e1 CO ₂ - NOIRR	5.45E+10	1.41E+11	3.46E+12	1.76E+10
er co ₂ - Norkk	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 CO ₂ – NOIRR	2.37E+11	5.36E+12	6.43E+14	1.18E+11
ez co ₂ – Norkk	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e1 NOCO2 - FIRR		1.25E+12	5.73E+10	4.46E+10
ei NOCO2 - FIRK	-	(0.0000)	(0.0000)	(0.0000)
e2 NOCO ₂ - FIRR		9.05E+11	1.46E+11	1.16E+13
ez NOCO2 - FIRK	-	(0.0000)	(0.0000)	(0.0000)
e1 NOCO ₂ - NOIRR	2E+10	3.66E+12	4.07E+10	7.15E+10
CI NOCO2 - NOIKK	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 NOCO2 - FIRR	8.33E+09	7.91E+11	4.14E+11	2.32E+10
02 NOCO2 - MIKK	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Tabla A21. Resultados de la prueba de Wald modificada para heterocedasticidad grupal para las especificaciones e1 y e2 del cultivo de canola

Especificación	Test statistic (RCP2.6)	Test statistic (RCP4.5)	Test statistic (RCP6)	Test statistic (RCP8.5)
e1 CO ₂ - FIRR	-	-	-	-
e2 CO ₂ - FIRR	-	-	-	-
e1 CO ₂ - NOIRR	-	2.6E+12 (0.0000)	-	2.03E+14 (0.0000)
e2 CO ₂ – NOIRR	-	8.57E+11 (0.0000)	-	2.94E+10 (0.0000)
e1 NOCO ₂ - FIRR	-	-	-	6.89E+10 (0.0000)
e2 NOCO ₂ - FIRR	-	-	-	1.16E+12 (0.0000)
e1 NOCO ₂ - NOIRR	-	-	-	8.78E+11 (0.0000)
e2 NOCO ₂ - FIRR	-	-	-	5.18E+10 (0.0000)

Tabla A22. Resultados de la prueba de Wald modificada para heterocedasticidad grupal para las conocificaciones el vis 2 del gultivo de coño

especificaciones e1 y e2 del cultivo de caña

Especificación	Test statistic	Test statistic	Test statistic	Test statistic
_	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)
e1 CO ₂ - FIRR		3.67E+10		7.14E+10
CI CO2-TIKK		(0.0000)	_	(0.0000)
e2 CO ₂ - FIRR		8.3E+09		9.85E+10
C2 CO2 - 1 1KK	-	(0.0000)	_	(0.0000)
e1 CO ₂ - NOIRR	_	8.72E+10	_	1.66E+11
CI CO2-WORK		(0.0000)	_	(0.0000)
e2 CO ₂ – NOIRR		2.73E+14		1.73E+11
C2 CO2-1101KK		(0.0000)	_	(0.0000)
e1 NOCO ₂ - FIRR	_	_	_	1.2E+10
CI WOCO2-TIM		_	_	(0.0000)
e2 NOCO ₂ - FIRR				6.83E+11
C2 1\OCO2-1 IKK	_	_	_	(0.0000)
e1 NOCO ₂ - NOIRR	_	_	_	1.94E+10
C1 110CO2 - 110Hdt			_	(0.0000)
e2 NOCO ₂ - FIRR	_	_	_	5.22E+11
62 110CO2 - 1 IKK		_		(0.0000)

Tabla A23. Resultados de la prueba de Wald modificada para heterocedasticidad grupal para las especificaciones e1 y e2 del cultivo de cebada

Especificación	Test statistic	Test statistic	Test statistic	Test statistic
	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)
e1 CO ₂ - FIRR		4.67E+10}		6.46E+10
er CO ₂ - FIRK	ı	(0.0000)	-	(0.0000)
e2 CO ₂ - FIRR		1.36E+10		3.16E+10
62 CO ₂ - I TIKK	ı	(0.0000)	_	(0.0000)
e1 CO ₂ - NOIRR		2.85E+10		
er CO ₂ - NOIRK	ı	(0.0000)	-	=
e2 CO ₂ – NOIRR		2.53E+10		
ez co ₂ – Norkk	ı	(0.0000)	_	-
e1 NOCO ₂ - FIRR				6.21E+11
er Noco ₂ - MRK	ı	-	_	(0.0000)
e2 NOCO ₂ - FIRR				2.08E+12
62 NOCO2 - MRK	ı	-	_	(0.0000)
e1 NOCO ₂ - NOIRR				1.38E+11
CI NOCO2 - NOIKK	<u> </u>	<u>-</u>	-	(0.0000)
e2 NOCO ₂ - FIRR				1.29E+12
62 NOCO ₂ - FIRK	<u>-</u>	_	_	(0.0000)

Tabla A24. Resultados de la prueba de Wald modificada para heterocedasticidad grupal para las especificaciones e1 y e2 del cultivo de maíz

Especificación	Test statistic	Test statistic	Test statistic	Test statistic
_	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)
e1 CO ₂ - FIRR	1.57E+10	8.05E+11		1.98E+11
C1 CO ₂ -14KK	(0.0000)	(0.0000)	_	(0.0000)
e2 CO ₂ - FIRR	5.45E+11	1.04E+14	_	3.06E+11
62 CO ₂ - 1 TKK	(0.0000)	(0.0000)	_	(0.0000)
e1 CO ₂ - NOIRR	5.92E+11	7.51E+10	1.33E+10	1.91E+11
CI CO2 - NOIRIC	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 CO ₂ – NOIRR	2.78E+10	4.91E+11	3.26E+11	8.26E+12
ez co ₂ – Norkk	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e1 NOCO ₂ - FIRR		2.67E+11	1.7E+10	5.43E+10
ei NOCO2 - FIRK	-	(0.0000)	(0.0000)	(0.0000)
e2 NOCO2 - FIRR		3.85E+11	3.78E+11	2.18E+11
ez NOCO2 - MKK	ī	(0.0000)	(0.0000)	(0.0000)
e1 NOCO2 - NOIRR	2.25E+11	1.67E+14	1.12E+11	1.16E+10
er noco2 - nork	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 NOCO2 - FIRR	2.5E+10	8.18E+10	8.23E+09	4.12E+10
ez moco ₂ - fikk	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Tabla A25. Resultados de la prueba de Wald modificada para heterocedasticidad grupal para las especificaciones e1 y e2 del cultivo de mijo

Especificación	Test statistic (RCP2.6)	Test statistic (RCP4.5)	Test statistic (RCP6)	Test statistic (RCP8.5)
e1 CO ₂ - FIRR	-	1.19E+12 (0.0000)	-	1.52E+11 (0.0000)
e2 CO ₂ - FIRR	-	1.03E+12 (0.0000)	-	2.27E+11 (0.0000)
e1 CO ₂ - NOIRR	-	1.41E+11 (0.0000)	-	9.49E+13 (0.0000)
e2 CO ₂ – NOIRR	-	4.13E+11 (0.0000)	-	4.48E+11 (0.0000)
e1 NOCO ₂ - FIRR	-	-	-	-
e2 NOCO ₂ - FIRR	-	-	-	-
e1 NOCO ₂ - NOIRR	-	-	-	6.62E+10 (0.0000)
e2 NOCO ₂ - FIRR	-	-	-	1.96E+11 (0.0000)

Tabla A26. Resultados de la prueba de Wald modificada para heterocedasticidad grupal para las

especificaciones e1 y e2 del cultivo de sorgo

Especificación	Test statistic	Test statistic	Test statistic	Test statistic
F	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)
e1 CO ₂ - FIRR		7.26E+11		9.31E+10
CI CO ₂ -Tikk		(0.0000)	_	(0.0000)
e2 CO ₂ - FIRR	_	6.82E+10	_	4.72E+10
62 CO2-1 IKK	_	(0.0000)	_	(0.0000)
e1 CO ₂ - NOIRR		2.75E+10		
er co2- Norkk	-	(0.0000)	_	_
e2 CO ₂ – NOIRR		4.96E+12		
62 CO ₂ = NOTRIX	-	(0.0000)	_	_
e1 NOCO ₂ - FIRR				6.53E+11
CI NOCO2-TAKK	-	_	_	(0.0000)
e2 NOCO ₂ - FIRR				5.67E+13
C2 NOCO2-TIKK	-	_	_	(0.0000)
e1 NOCO ₂ - NOIRR				7.06E+10
CI NOCO2 - NOIKK	1	_	_	(0.0000)
e2 NOCO ₂ - FIRR				2.2E+11
62 NOCO2 - FIRK	<u>-</u>	-	-	(0.0000)

Tabla A27. Resultados de la prueba de Wald modificada para heterocedasticidad grupal para las especificaciones e1 y e2 del cultivo de soya

Especificación	Test statistic	Test statistic	Test statistic	Test statistic
	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)
e1 CO ₂ - FIRR	3.63E+11	1.56E+11		2.61E+11
er CO ₂ - FIRK	(0.0000)	(0.0000)	-	(0.0000)
e2 CO ₂ - FIRR	9.86E+10	2.77E+12		4.71E+11
ez CO ₂ - FIRK	(0.0000)	(0.0000)	-	(0.0000)
e1 CO ₂ - NOIRR	1.24E+11	6.25E+11	2.6E+10	2.81E+10
er CO ₂ - NOIRK	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 CO ₂ – NOIRR	8.02E+10	9.16E+11	8.73E+11	5.58E+13
ez co ₂ – Norkk	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e1 NOCO ₂ - FIRR		1.52E+12	5.45E+10	3.3E+10
el NOCO ₂ - FIRK	=	(0.0000)	(0.0000)	(0.0000)
e2 NOCO2 - FIRR		7.05E+10	4.08E+12	1.73E+13
ez NOCO2 - FIRK	-	(0.0000)	(0.0000)	(0.0000)
e1 NOCO ₂ - NOIRR	4.8E+09	1.08E+11	8.06E+09	4.02E+11
ei NOCO2 - NOIRR	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 NOCO ₂ - FIRR	2.58E+10	1.12E+11	3.46E+11	3.95E+10
62 NOCO ₂ - FIRK	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Tabla A28. Resultados de la prueba de Wald modificada para heterocedasticidad grupal para las especificaciones e1 y e2 del cultivo de trigo

Especificación	Test statistic	Test statistic	Test statistic	Test statistic
	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)
e1 CO ₂ - FIRR	1.42E+13	7.73E+10	5.58E+10	7.46E+11
er CO ₂ - FIRK	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 CO ₂ - FIRR	3.92E+13	3.53E+10	3.74E+10	5.27E+10
62 CO ₂ - FIRK	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e1 CO ₂ - NOIRR	1.09E+11	1.41E+11	4.49E+10	3.62E+10
er co ₂ - Norkk	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 CO ₂ – NOIRR	4.78E+10	5.05E+10	8.99E+11	5.11E+10
ez CO ₂ – NOIKK	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e1 NOCO ₂ - FIRR	1.4E+12	2.03E+10	1.93E+11	4.44E+10
ei NOCO2 - FIRK	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 NOCO ₂ - FIRR	5.7E+11	2.03E+12	2.39E+13	5.62E+10
ez NOCO2 - FIRK	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e1 NOCO ₂ - NOIRR	1.34E+12	8.72E+11	4E+11	6.27E+10
ei noco2 - noinn	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 NOCO ₂ - FIRR	5.33E+11	6.78E+11	1.9E+11	1.74E+10
ez NOCO2 - FIRR	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Tabla A29. Resultados de la prueba de Wooldridge para identificar autocorrelación especificaciones e1 y e2 cultivo de arroz

Especificación	Test statistic (RCP2.6)	Test statistic (RCP4.5)	Test statistic (RCP6)	Test statistic (RCP8.5)	
e1 CO ₂ - FIRR	-	19645.74 (0.0000)	37658.84 (0.0000)	15577.16 (0.0000)	
e2 CO ₂ - FIRR	-	- 19592.87 46 (0.0000) (0		15152.84 (0.0000)	
e1 CO ₂ - NOIRR	1784.381 (0.0000)	8940.848 (0.0000)	8091.365 (0.0000)	11901.92 (0.0000)	
e2 CO ₂ – NOIRR	1479.676 (0.0000)	7051.981 (0.0000)	6233.492 (0.0000)	10800.7 (0.0000)	
e1 NOCO ₂ - FIRR	-	23038.65 (0.0000)	16038.38 (0.0000)	16293.78 (0.0000)	
e2 NOCO ₂ - FIRR	-	23741.94 (0.0000)	16506.95 (0.0000)	15895.43 (0.0000)	
e1 NOCO ₂ - NOIRR	e1 NOCO ₂ - NOIRR 2514.995 (0.0000)		14019 (0.0000)	13763.18 (0.0000)	
e2 NOCO ₂ - FIRR	2663 346		11118.53 (0.0000)	15973.14 (0.0000)	

Tabla A30. Resultados de la prueba de Wooldridge para identificar autocorrelación especificaciones e1 y e2 cultivo de canola

Especificación	Test statistic	Test statistic	Test statistic	Test statistic	
	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)	
e1 CO ₂ - FIRR	-	-	-	-	
e2 CO ₂ - FIRR	CO ₂ - FIRR				
e1 CO ₂ - NOIRR	CO ₂ - NOIRR - 8515.602 (0.0000)			9888.048 (0.0000)	
e2 CO ₂ – NOIRR	-	8616.286 (0.0000)	-	10318.95 (0.0000)	
e1 NOCO ₂ - FIRR	-	-	-	24994.7 (0.0000)	
e2 NOCO ₂ - FIRR	-	-	-	24881.11 (0.0000)	
e1 NOCO ₂ - NOIRR	-	-	-	10857.53 (0.0000)	
e2 NOCO ₂ - FIRR	-	-	-	11385.88 (0.0000)	

Tabla A31. Resultados de la prueba de Wooldridge para identificar autocorrelación especificaciones e1 y e2 cultivo de caña

Especificación	Test statistic	Test statistic	Test statistic	Test statistic		
	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)		
e1 CO ₂ - FIRR		45241.8		22419.62		
C1 CO2 - 14KK		(0.0000)	_	(0.0000)		
e2 CO ₂ - FIRR		48542.35		23741.45		
C2 CO2 - 1 1KK		(0.0000)	_	(0.0000)		
e1 CO ₂ - NOIRR		52407.7		19301.41		
er CO ₂ - NOIKK	ı	(0.0000)	_	(0.0000)		
e2 CO ₂ – NOIRR		63085.66		23736.73		
C2 CO2 - NOIRK	_	(0.0000)	_	(0.0000)		
e1 NOCO ₂ - FIRR				22047.43		
er Noco ₂ - MRK	ı	-	_	(0.0000)		
e2 NOCO ₂ - FIRR				23354.12		
ez NOCO2 - MKK	ı	_	_	(0.0000)		
e1 NOCO ₂ - NOIRR				20603.99		
CI NOCO2 - NOIKK	,	_	_	(0.0000)		
e2 NOCO2 - FIRR				26480.41		
C2 110CO2 - TTKK		_	_	(0.0000)		

Tabla A32. Resultados de la prueba de Wooldridge para identificar autocorrelación especificaciones e1 y e2 cultivo de cebada

Especificación	Test statistic	Test statistic	Test statistic	Test statistic	
	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)	
e1 CO ₂ - FIRR		31621.64		24017.14	
ei CO ₂ - FiRR	-	(0.0000)	-	(0.0000)	
e2 CO ₂ - FIRR		35397.27		26069.23	
ez CO ₂ - FIRR	-	(0.0000)	-	(0.0000)	
al CO NOIDD		16525.16			
e1 CO ₂ - NOIRR	-	(0.0000)	-	-	
o2 CO NOIDD		18309.62			
e2 CO ₂ – NOIRR	-	(0.0000)	-	_	
e1 NOCO ₂ - FIRR				19176.7	
er NOCO ₂ - FIRK	-	-	-	(0.0000)	
e2 NOCO ₂ - FIRR				19310.74	
ez NOCO2 - FIRR	-	-	-	(0.0000)	
e1 NOCO ₂ - NOIRR				12984.9	
ei Noco ₂ - Noikk	-	_	_	(0.0000)	
e2 NOCO ₂ - FIRR				16153.05	
ez NOCO ₂ - FIRR	-	-	-	(0.0000)	

Tabla A33. Resultados de la prueba de Wooldridge para identificar autocorrelación especificaciones e1 y e2 cultivo de maíz

Especificación	Test statistic	Test statistic	Test statistic	Test statistic	
	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)	
e1 CO ₂ - FIRR	2074.804	23366.22		14514.62	
er co ₂ - rikk	(0.0000)	(0.0000)	_	(0.0000)	
e2 CO ₂ - FIRR	1857.786	21465.6		13563.73	
62 CO ₂ - MKK	(0.0000)	(0.0000)	_	(0.0000)	
e1 CO ₂ - NOIRR	1823.636	12971.02	7477.61	10013.13	
er CO ₂ - NOIKK	(0.0000)	(0.0000)	(0.0000)	(0.0000)	
e2 CO ₂ – NOIRR	1289.056	8379.35	5572.371	9062.501	
ez co ₂ – Norkk	(0.0000)	(0.0000)	(0.0000)	(0.0000)	
e1 NOCO ₂ - FIRR		35404.61	14736.42	18022.95	
er Noco ₂ - MRK	ī	(0.0000)	(0.0000)	(0.0000)	
e2 NOCO ₂ - FIRR		34678.98	15703.18	16412.09	
C2 110CO2 - 11KK	-	(0.0000)	(0.0000)	(0.0000)	
e1 NOCO ₂ - NOIRR	2170.81	19521.06	11900.88	13605	
CI NOCO2 - NOIKK	(0.0000)	(0.0000)	(0.0000)	(0.0000)	
e2 NOCO2 - FIRR	1757.296	12997.83	8679.262	12299.95	
62 NOCO2 - FIRK	(0.0000)	(0.0000)	(0.0000)	(0.0000)	

Tabla A34. Resultados de la prueba de Wooldridge para identificar autocorrelación especificaciones e1 y e2 cultivo de mijo

Especificación	Test statistic (RCP2.6)	Test statistic (RCP4.5)	Test statistic (RCP6)	Test statistic (RCP8.5)		
el CO ₂ - FIRR	-	17719.29 (0.0000)	-	9153.692 (0.0000)		
e2 CO ₂ - FIRR	-	18027.19 (0.0000)		9448.787 (0.0000)		
e1 CO ₂ - NOIRR	-	9869.13 (0.0000)	-	8016.473 (0.0000)		
e2 CO ₂ – NOIRR	-	8903.202 (0.0000)	-	8514.004 (0.0000)		
e1 NOCO ₂ - FIRR	-	-	-	-		
e2 NOCO ₂ - FIRR	-	-	-	-		
e1 NOCO ₂ - NOIRR	-	-	-	5270.699 (0.0000)		
e2 NOCO ₂ - FIRR	-	-	-	6013.092 (0.0000)		

Tabla A35. Resultados de la prueba de Wooldridge para identificar autocorrelación especificaciones e1 y e2 cultivo de sorgo

cultivo de sorgo				
Especificación	Test statistic	Test statistic	Test statistic	Test statistic
	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)
e1 CO ₂ - FIRR		23811.62		11737.21
er CO ₂ - FIRK	-	(0.0000)	-	(0.0000)
o2 CO FIRD		23830.87		12124.17
e2 CO ₂ - FIRR	-	(0.0000)	-	(0.0000)
-1 CO NOIDD		18522.21		
e1 CO ₂ - NOIRR	-	(0.0000)	-	-
°2 CO NOIDD		16643.73		
e2 CO ₂ – NOIRR	-	(0.0000)	-	-
e1 NOCO ₂ - FIRR				11723.88
ei NOCO ₂ - FIRR	-	-	-	(0.0000)
e2 NOCO ₂ - FIRR				12369.7
ez NOCO ₂ - FIRK	-	-	-	(0.0000)
e1 NOCO ₂ - NOIRR				8956.825
CI NOCO2 - NOIKK	-	_	_	(0.0000)
e2 NOCO ₂ - FIRR				10047
EZ INOCO2 - FIRK	-	_	_	(0.0000)

Tabla A36. Resultados de la prueba de Wooldridge para identificar autocorrelación especificaciones e1 y e2 cultivo de soya

Especificación	Test statistic	Test statistic	Test statistic	Test statistic	
	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)	
e1 CO ₂ - FIRR	3553.417	18836.13		14102.08	
er CO ₂ - FIRK	(0.0000)	(0.0000)	-	(0.0000)	
e2 CO ₂ - FIRR	2944.081	19918.5		14700.53	
62 CO ₂ - MKK	(0.0000)	(0.0000)	-	(0.0000)	
e1 CO ₂ - NOIRR	2051.082	11634.4	4897.462	11029.4	
er co ₂ - norkk	(0.0000)	(0.0000)	(0.0000)	(0.0000)	
e2 CO ₂ – NOIRR	1456.054	8992.558	4077.713	9807.461	
ez co ₂ – Norkk	(0.0000)	(0.0000)	(0.0000)	(0.0000)	
e1 NOCO2 - FIRR		38227.41	18156.82	21280.93	
er Noco ₂ - MRK	-	(0.0000)	(0.0000)	(0.0000)	
e2 NOCO2 - FIRR		44222.57	22351.17	22134.63	
62 NOCO2 - MRK	-	(0.0000)	(0.0000)	(0.0000)	
e1 NOCO ₂ - NOIRR	2373.9	22642.57	10887.45	17400.78	
CI NOCO2 - NOIRR	(0.0000)	(0.0000)	(0.0000)	(0.0000)	
e2 NOCO ₂ - FIRR	2044.73	18375.11	8330.242	15708.41	
62 NOCO2 - FIRK	(0.0000)	(0.0000)	(0.0000)	(0.0000)	

Tabla A37. Resultados de la prueba de Wooldridge para identificar autocorrelación especificaciones e1 y e2 cultivo de trigo

Especificación	Test statistic	Test statistic	Test statistic	Test statistic
	(RCP2.6)	(RCP4.5)	(RCP6)	(RCP8.5)
e1 CO ₂ - FIRR	8144.449	45081.52	31357.78	46529.83
er CO ₂ - FIRK	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 CO ₂ - FIRR	9643.779	51815.14	30507.66	45566.04
ez CO ₂ - FIRR	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e1 CO ₂ - NOIRR	2702.831	14941.31	13061.08	19572.46
er CO ₂ - NOIKK	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e2 CO ₂ – NOIRR	3445.485	16936.4	11624.47	21067.4
ez CO ₂ – NOIKK	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e1 NOCO2 - FIRR	8769.914	53453.43	40845.74	42861.56
ei NOCO2 - FIRR	(0.0000)	(0.0000)	(0.0000)	(0.0000)
2 NOCO EIRR	9634.055	55231.72	41450	40607.22
e2 NOCO ₂ - FIRR	(0.0000)	(0.0000)	(0.0000)	(0.0000)
e1 NOCO ₂ - NOIRR	2155.412	16156.69	15769.51	17862.38
ei Noco ₂ - Noikk	(0.0000)	(0.0000)	(0.0000)	(0.0000)
2 NOCO EIDD	3024.043	18806.37	16046.47	21259.09
e2 NOCO ₂ - FIRR	(0.0000)	(0.0000)	(0.0000)	(0.0000)

Tabla A38. Resultado de la estimación por efectos fijos para las especificaciones e1 y e2 bajo diferentes métodos de estimación del error estándar para el cultivo de arroz.

	T_{it}	T_{it}^{2}	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	C	N	R^2	$R_{adj.}^2$
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	021494672	-0.007141293	-0.00158633	6.54712E-07	0.000136669	0.296963125	0.512484014	5.314254761	94224	0.978001	0.966999
	002418602	4.32732E-05	0.000372539	6.62785E-07	1.20202E-05	0.003822454	0.006583397	0.050134588			
	002881542	5.28504E-05	0.000497199	8.60345E-07	1.79827E-05	0.004403554	0.007737644	0.060661692			
	019690424	-0.006958171	-	-	-	0.302674443	0.520287037	5.321838856	94224	0.977851	0.966774
	002418602	4.32732E-05	-	-	-	0.003818085	0.006585497	0.046380196			
	002881542	5.28504E-05	-	-	-	0.004337234	0.007646097	0.054925982			
	001087567	-0.002762633	0.000718896	-5.17733E-06	8.06758E-05	0.115911819	0.261814415	3.217089176	94224	0.991903	0.987853
	00153168	2.09594E-05	0.000197594	3.86289E-07	6.45251E-06	0.001895562	0.004641984	0.030004896			
	001688368	2.33133E-05	0.000225559	4.79834E-07	7.92651E-06	0.002101047	0.005149902	0.033756003			
	002211654	-0.002678226	-	-	-	0.123033807	0.282241493	3.383956909	94224	0.991844	0.987765
	00153168	2.09594E-05	-	-	-	0.001853147	0.00448407	0.027324701			
	001688368	2.33133E-05	-	-	-	0.002003745	0.004850608	0.030086594			
	.10068544	-0.005874817	0.007567404	-1.74288E-06	-0.000141168	0.530115962	1.184590101	5.937422752	94224	0.94662	0.919922
	00225109	3.13568E-05	0.000343286	6.38837E-07	9.44962E-06	0.004941952	0.011204544	0.044107582			
	002594832	3.96515E-05	0.000410725	5.80914E-07	1.3133E-05	0.005741559	0.013868095	0.051882114			
	098067299	-0.006185025	-	-	-	0.522634387	1.173103094	6.399677753	94224	0.945837	0.918751
	00225109	3.13568E-05	-	-	-	0.004905376	0.011142584	0.04115041			
0.0	002594832	3.96515E-05	-	-	-	0.005621787	0.013629418	0.04980984			
CO ₂ - NOIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	C	N	R^2	$R_{adj.}^2$
0.1	110237487	-0.005308887	0.017819496	-2.14182E-05	-0.000163987	0.07377626	0.069624141	0.82214272	94224	0.996555	0.994832
e1 RCP 2.6 0.0	001947535	4.72691E-05	0.000230234	3.54847E-07	9.46151E-06	0.00141914	0.001392279	0.035602923			
	002499719	5.52588E-05	0.000299816	1.26902E-06	1.73471E-05	0.001575648	0.001619306	0.041960794			
	09679807	-0.006433674	-	-	-	0.113988094	0.109443963	2.486762285	94224	0.99572	0.99358
e2 RCP 2.6 0.0	001947535	4.72691E-05	-	-	-	0.001535019	0.001506562	0.036073651			
	002499719	5.52588E-05	-	-	-	0.001839172	0.001844879	0.04588633			
	018698057	-0.005117593	0.011584868	-5.73389E-06	-0.000162554	0.246204242	0.417441636	3.323189974	94224	0.98552	0.978277
e1 RCP 4.5 0.0	002080464	3.72233E-05	0.000320455	5.70123E-07	1.03397E-05	0.003288048	0.005662992	0.043125417			
	002589907	4.5531E-05	0.00045558	7.47555E-07	1.70779E-05	0.003781686	0.006621127	0.052534714			
	014672126	-0.005479691	-	-	-	0.245021492	0.417940378	4.041153908	94224	0.984922	0.977381
	002080464	3.72233E-05	-	-	-	0.003340013	0.005760911	0.040572818			
0.0	002589907	4.5531E-05	-	-	-	0.003736326	0.006553259	0.048805736			
-0.0	015123632	-0.004745775	0.018417485	-9.45641E-06	-0.000332565	0.222264796	0.520332277	2.865376711	94224	0.980587	0.970877
e1 RCP 6.0 0.0	002441179	3.34049E-05	0.000314924	6.15665E-07	1.0284E-05	0.003021132	0.007398356	0.047821559			
0.0	003332152	4.27947E-05	0.000482884	8.97759E-07	1.8888E-05	0.00392474	0.01021353	0.066074207			

	-0.023946259	-0.005328563	-	-	-	0.230107784	0.548873603	4.137216568	94224	0.979249	0.968872
e2 RCP 6.0	0.002441179	3.34049E-05	-	-	-	0.003042439	0.007361805	0.044860832			
	0.003332152	4.27947E-05	-	-	-	0.003880304	0.010057287	0.063809626			
	-0.079271682	-0.004117107	0.018211877	-6.42694E-06	-0.000378085	0.430886447	0.96509093	3.819274902	94224	0.968505	0.952753
e1 RCP 8.5	0.001799656	2.50685E-05	0.000274443	5.10725E-07	7.55459E-06	0.003950891	0.00895758	0.035262231			
	0.002202126	3.25419E-05	0.00042806	8.87468E-07	1.20285E-05	0.004736127	0.011465435	0.04591075			
	-0.072295882	-0.004846648	-	-	-	0.405373871	0.919596493	4.819881916	94224	0.965355	0.94803
e2 RCP 8.5	0.001799656	2.50685E-05	-	-	-	0.004083215	0.009275042	0.034253441			
	0.002202126	3.25419E-05	-	-	-	0.004796645	0.011675266	0.043689601			
NOCO ₂ -FIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	C	N	R^2	$R_{adj.}^2$
	-	-	_	-	-	-	-	-	-	-	-
e1 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	0.017119879	-0.00735511	-0.001619045	-1.41298E-07	0.000173707	0.084474117	0.181103334	4.598402023	94224	0.974269	0.961399
e1 RCP 4.5	0.002501025	4.47479E-05	0.000385234	6.85372E-07	1.24298E-05	0.003952718	0.006807751	0.05184311			
	0.002952424	5.65416E-05	0.000512662	8.79537E-07	1.89694E-05	0.004510554	0.007943765	0.063076116			
	0.01963889	-0.007128799	-	-	-	0.09172973	0.191204026	4.629636288	94224	0.974001	0.960999
e2 RCP 4.5	0.002501025	4.47479E-05	-	-	-	0.003955212	0.006822016	0.048045948			
	0.002952424	5.65416E-05	-	-	-	0.004469471	0.007891154	0.056938469			
	0.012638329	-0.00698994	0.003367773	-3.42556E-06	2.41998E-05	0.083406411	0.205728412	4.398760319	94224	0.966192	0.949282
e1 RCP 6.0	0.00292007	3.9958E-05	0.000376703	7.3644E-07	1.23014E-05	0.003613792	0.008849704	0.057202794			
	0.003757675	5.46269E-05	0.000501527	7.7425E-07	2.08724E-05	0.00451908	0.011711408	0.077023797			
	0.003686639	-0.007008481	-	-	-	0.095975943	0.24377583	4.851293564	94224	0.965966	0.948947
e2 RCP 6.0	0.00292007	3.9958E-05	-	-	-	0.003531727	0.008545737	0.052075393			
	0.003757675	5.46269E-05	-	-	-	0.004326098	0.011144866	0.069265909			
	-0.042322606	-0.005514069	0.009371925	-5.07851E-06	-0.000120619	0.130824655	0.40724054	4.54005909	94224	0.941547	0.912311
e1 RCP 8.5	0.002251563	3.13634E-05	0.000343358	6.38971E-07	9.4516E-06	0.004942989	0.011206896	0.044116843			
	0.00263848	4.27635E-05	0.000447554	7.13212E-07	1.40028E-05	0.005947033	0.014352346	0.054320529			
	-0.03853875	-0.005858731	-	-	-	0.125163853	0.401926786	5.149490356	94224	0.940054	0.910076
e2 RCP 8.5	0.002251563	3.13634E-05	-	-	-	0.004932596	0.011204414	0.041378759			
	0.00263848	4.27635E-05	-	-	-	0.005965965	0.014472681	0.052808408			
NOCO ₂ - NOIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	C	N	R^2	$R_{adj.}^2$
	0.13396427	-0.005567385	0.019061567	-1.86678E-05	-0.000266302	0.004710506	0.020364329	0.492133498	94224	0.996378	0.994567
e1 RCP 2.6	0.001918499	4.65644E-05	0.000226801	3.49557E-07	9.32045E-06	0.001397982	0.001371522	0.035072129			
	0.002431924	5.61345E-05	0.000299327	1.07626E-06	1.56299E-05	0.001545835	0.001584946	0.041946109			
	0.121009074	-0.006820973	-	-	-	0.042208374	0.057621647	2.157989979	94224	0.995541	0.993311
e2 RCP 2.6	0.001918499	4.65644E-05	-	-	-	0.001505483	0.001477572	0.035379522			
	0.002431924	5.61345E-05	<u>-</u>	_ -	<u> </u>	0.001786627	0.001799425	0.044589553			
	0.010947914	-0.005004912	0.016856598	7.62421E-07	-0.00047561	0.107946955	0.202579349	2.725260019	94224	0.982478	0.973714
	0.010747714										
e1 RCP 4.5	0.002146156	3.83986E-05	0.000330574	5.88125E-07	1.06661E-05	0.003391869	0.005841803	0.044487119			

	0.012192533	-0.005804785	_		_	0.097303361	0.189349279	3.642407417	94224	0.981471	0.972205
e2 RCP 4.5	0.002146156	3.83986E-05		_	_	0.003472124	0.005988778	0.04217764	74224	0.701471	0.772203
e2 RCP 4.3			-	-	-						
	0.002602137	4.85606E-05	-	-	-	0.003796461	0.006685441	0.049921192			
	0.01421822	-0.004493139	0.024352279	1.38407E-06	-0.000722701	0.090021446	0.220322505	2.251444578	94224	0.976746	0.965115
e1 RCP 6.0	0.002497334	3.41734E-05	0.000322168	6.29827E-07	1.05205E-05	0.003090626	0.007568539	0.048921593			
	0.003258673	4.60774E-05	0.000509906	8.1068E-07	2.02783E-05	0.003914617	0.010225905	0.067122295			
	0.012596696	-0.005585263	-	-	-	0.078612059	0.19604136	3.55171442	94224	0.974173	0.961258
e2 RCP 6.0	0.002497334	3.41734E-05	-	-	-	0.003172559	0.007676659	0.046779469			
	0.003258673	4.60774E-05	-	-	-	0.003948751	0.010286915	0.064804696			
	-0.032627981	-0.003512136	0.02583649	-3.98778E-06	-0.000676317	0.167448044	0.406620592	2.543037891	94224	0.96209	0.943129
e1 RCP 8.5	0.001830183	2.54937E-05	0.000279098	5.19388E-07	7.68274E-06	0.004017911	0.009109529	0.035860389			
	0.002189737	3.44609E-05	0.000460702	9.53334E-07	1.38421E-05	0.004802318	0.011594144	0.047237705			
	-0.023536587	-0.004623929	-	-	-	0.119171672	0.312604904	3.819156408	94224	0.955135	0.932699
e2 RCP 8.5	0.001830183	2.54937E-05	-	-	-	0.004307082	0.009783557	0.036131423			
	0.002189737	3.44609E-05	-	-	-	0.005088228	0.012403132	0.046221104			
				DOD 1 :				C* 1			

Tabla A39. Resultado de la estimación por efectos fijos para las especificaciones e1 y e2 bajo diferentes métodos de estimación del error estándar para el cultivo de canola

CO ₂ - FIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	C	N	R ²	$R_{adj.}^2$
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 4.5	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 4.5	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 8.5	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 8.5	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			1 2
CO ₂ - NOIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	C	N	R^2	$R_{adj.}^2$
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-0.09715	0.000463	0.01466	-5.7E-06	-0.00041	0.087532	0.164821	1.796168	94224	0.98214	0.973207
e1 RCP 4.5	0.00187	3.35E-05	0.000288	5.12E-07	9.29E-06	0.002955	0.00509	0.038763			
	0.002099	4E-05	0.000459	1.23E-06	1.05E-05	0.00351	0.00625	0.048787			
	-0.09627	-0.00024	-	-	-	0.076373	0.151558	2.526492	94224	0.981358	0.972036
e2 RCP 4.5	0.00187	3.35E-05	-	-	-	0.003006	0.005184	0.036512			
	0.002099	4E-05	-	-	-	0.003516	0.006251	0.042463			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			

e2 RCP 6.0	-	-	-	-	-	-	-	-	-	-	-
62 KC1 0.0	-	-	-	-	-	-	-	-			
e1 RCP 8.5	-0.05607 0.001842 0.002193	0.000973 2.57E-05 2.89E-05	0.012448 0.000281 0.000555	-7.7E-06 5.23E-07 1.51E-06	-0.00035 7.73E-06 8.27E-06	0.032002 0.004043 0.00479	0.045638 0.009167 0.011492	1.00563 0.036086 0.046648	94224	0.952436	0.928647
e2 RCP 8.5	-0.05019 0.001842 0.002193	0.000493 2.57E-05 2.89E-05	- - -		-	-0.00132 0.004062 0.004671	-0.02334 0.009227 0.011279	1.459058 0.034075 0.04	94224	0.95056	0.925836
NOCO ₂ -FIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	С	N	R^2	$R_{adj.}^2$
e1 RCP 2.6	-	- -	-	<u>-</u>	-	-	- -	-	-	-	-
CI KCI 2.0	-	-	-	-	-	-	-	-			
e2 RCP 2.6	-	-	-	-	-	-	-	-	-	-	=
C2 RC1 2.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 4.5	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 4.5	-	-	-	-	-	-	-	-			
	-	-	-	-	<u> </u>	-	-	-	-	-	-
e1 RCP 6.0	-	-	-	-	-	-	-	-			
	<u>-</u>	<u> </u>	<u> </u>		<u>-</u>		<u>-</u>	<u> </u>	_	_	-
e2 RCP 6.0	-	-	-	-	-	-	-	-			
e1 RCP 8.5	-0.04373 0.00217 0.002382	0.000792 3.02E-05 3.51E-05	-0.00041 0.000331 0.000534	-7.3E-06 6.16E-07 1.39E-06	4.3E-05 9.11E-06 9.81E-06	-0.19072 0.004763 0.005369	-0.41615 0.0108 0.012813	1.772724 0.042513 0.050184	94224	0.953565	0.93034
e2 RCP 8.5	-0.04217 0.00217 0.002382	0.000892 3.02E-05 3.51E-05	- - -	- - -	- - -	-0.19428 0.004708 0.005268	-0.42443 0.010694 0.012664	1.662814 0.039494 0.044112	94224	0.953283	0.929922
NOCO ₂ - NOIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	С	N	R ²	$R_{adj.}^2$
e1 RCP 2.6	-	-	-	-	-	-	-	-	-	-	-
C1 KC1 2.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 2.6	-	-	-	-	-	-	-	-			
	<u>-</u>	<u>-</u>	<u>-</u>	-	<u>-</u>	-	<u>-</u>	-			
e1 RCP 4.5	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			

	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 4.5											
	-	-	-	-	-	-	-	-			
	_	_	_	_	_	_	_	_	_	_	_
e1 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-0.03875	0.001596	0.012337	-9E-06	-0.00033	-0.09114	-0.21376	0.430545	94224	0.953717	0.930569
e1 RCP 8.5	0.001684	2.35E-05	0.000257	4.78E-07	7.07E-06	0.003698	0.008384	0.033003			
	0.002039	2.65E-05	0.000579	1.63E-06	7.92E-06	0.004521	0.010818	0.044791			
	-0.03264	0.001138	-	-	-	-0.12354	-0.28051	0.882534	94224	0.951658	0.927483
e2 RCP 8.5	0.001684	2.35E-05	-	-	-	0.003724	0.008459	0.031239			
	0.002039	2.65E-05	-	-	-	0.004413	0.010648	0.037294			

Tabla A40. Resultado de la estimación por efectos fijos para las especificaciones e1 y e2 bajo diferentes métodos de estimación del error estándar para el cultivo de caña

CO ₂ - FIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	С	N	R ²	$R_{adj.}^2$
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	=	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	0.041117	-0.04059	0.178316	8.02E-06	-0.0066	1.039134	1.996021	18.02387	94224	0.961171	0.941751
e1 RCP 4.5	0.016071	0.000288	0.002475	4.4E-06	7.99E-05	0.025399	0.043745	0.333133			
	0.017193	0.000355	0.003187	5.69E-06	0.000113	0.027858	0.049276	0.398314			
	0.021961	-0.05088	-	-	-	0.849991	1.747757	26.25615	94224	0.958987	0.938477
e2 RCP 4.5	0.016071	0.000288	-	-	-	0.026694	0.046042	0.324262			
	0.017193	0.000355	-	-	-	0.029344	0.051876	0.365437			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	0.147444	-0.0315	0.25022	-7.5E-05	-0.00671	0.987999	3.875806	7.767116	94224	0.886039	0.829041
e1 RCP 8.5	0.01506	0.00021	0.002297	4.27E-06	6.32E-05	0.033063	0.074961	0.295091			
	0.016436	0.000255	0.004291	1.06E-05	0.000101	0.036861	0.087028	0.374434			
	0.24507	-0.04191	-	-	-	0.457121	2.816238	19.10704	94224	0.869503	0.804244
e2 RCP 8.5	0.01506	0.00021	-	-	-	0.03612	0.082046	0.303002			
	0.016436	0.000255	-			0.042097	0.100795	0.358178			
CO ₂ - NOIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	C	N	R^2	$R_{adj.}^2$
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	=	-	-	-	-			
	0.041117	-0.04059	0.178316	8.02E-06	-0.0066	1.039134	1.996021	18.02387	94224	0.966987	0.950476
e1 RCP 4.5	0.016071	0.000288	0.002475	4.4E-06	7.99E-05	0.025399	0.043745	0.333133			
	0.017193	0.000355	0.003187	5.69E-06	0.000113	0.027858	0.049276	0.398314			
	0.021961	-0.05088	-	-	-	0.849991	1.747757	26.25615	94224	0.963203	0.944802
e2 RCP 4.5	0.016071	0.000288	-	-	-	0.026694	0.046042	0.324262			
	0.017193	0.000355		<u> </u>	-	0.029344	0.051876	0.365437			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			

	-	-	-	-	=	-	=	=	=	-	=
e2 RCP 6.0	-	-	-	-	-	-	-	-			
	0.147444	-0.0315	0.25022	-7.5E-05	-0.00671	0.987999	3.875806	7.767116	94224	0.907737	0.861592
e1 RCP 8.5	0.01506	0.00021	0.23022	4.27E-06	6.32E-05	0.033063	0.074961	0.295091	94224	0.907737	0.801392
er Ker 6.5	0.01300	0.00021	0.002297	1.06E-05	0.000101	0.035003	0.087028	0.273071			
	0.24507	-0.04191	-	1.00E-03	-	0.457121	2.816238	19.10704	94224	0.8866	0.829891
e2 RCP 8.5	0.01506	0.00021	_	_	_	0.03612	0.082046	0.303002	74224	0.8800	0.027071
C2 RC1 0.5	0.016436	0.00025	_	_	_	0.042097	0.100795	0.358178			
NOCO ₂ -FIRR	T_{it}	T _{it} 2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ ₁	λ_2	C	N	R^2	$R_{adj.}^2$
110002	- u	- 10	- 11	- lt -	- 11 - 11	-	-	-	-	-	- uuj.
e1 RCP 2.6	_	_	_	_	_	_	_	_			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 4.5	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 4.5	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
A D GD CO	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 6.0	-	-	-	-	-	-	-	-			
	- 0.205110	- 0.0270	- 0.22 < 0.1.5	- OF 05	- 0.0050	- 0.005070	- 2 (42140	- 0.201502	0.122.1	0.005702	0.020.55
1 DCD 0.5	0.395119	-0.0379	0.226815 0.002629	-9E-05	-0.0058	0.086079 0.037853	2.643148 0.08582	8.291503 0.337839	94224	0.885782	0.828656
e1 RCP 8.5	0.017242 0.01908	0.00024 0.0003	0.002629	4.89E-06 1.24E-05	7.24E-05 0.000108	0.037833	0.101917	0.337839			
	0.01908	-0.04707	- 0.004937	1.24E-05	0.000108	-0.38308	1.713522	18.6444	94224	0.870088	0.805122
e2 RCP 8.5	0.488	0.00024	-	-	-	0.03978	0.09036	0.333706	94224	0.670066	0.803122
62 KC1 6.5	0.017242	0.00024	-	-	-	0.046969	0.111873	0.393345			
NOCO ₂ - NOIRR	T _{it}	T _{it} 0.0005	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ ₁	λ_2	C	N	R^2	$R_{adj.}^2$
110CO2 TIONAL	it	it	it -	it	it it	-	-		-		raaj.
e1 RCP 2.6	_	_	_	_	_	_	_	_			
51 1101 2.0	_	_	_	_	_	_	_	_			
	_	_	_	-	_	_	_	_	_	_	_
e2 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 4.5	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			

	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 4.5	-	-	-	-	-	-	-	_			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	0.312214	-0.0294	0.256598	-6.8E-05	-0.007	0.240239	2.373325	3.796619	94224	0.904347	0.856506
e1 RCP 8.5	0.014861	0.000207	0.002266	4.22E-06	6.24E-05	0.032626	0.073971	0.291194			
	0.015778	0.000255	0.004166	1E-05	0.000104	0.035425	0.083174	0.366851			
	0.410392	-0.04019	-	-	-	-0.30844	1.275681	15.40691	94224	0.880243	0.820355
e2 RCP 8.5	0.014861	0.000207	-	-	-	0.035973	0.081713	0.301773			
	0.015778	0.000255	-	-	-	0.041333	0.09865	0.351774			

Tabla A41. Resultado de la estimación por efectos fijos para las especificaciones e1 y e2 bajo diferentes métodos de estimación del error estándar para el cultivo de cebada

el RCP 2.6	CO ₂ - FIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	С	N	R ²	$R_{adj.}^2$
e2 RCP 2.6 e1 RCP 4.5 e2 RCP 2.6 e1 RCP 4.5 e2 RCP 6.0 e1 RCP 6.0 e1 RCP 6.0 e1 RCP 8.5 e1 RCP		-	-	-	-	-	-	-	-	-	-	-
el RCP 4.5	e1 RCP 2.6	-	-	-	-	-	-	-	-			
el RCP 4.5		-	-	-	-	-	-	-	-			
el RCP 4.5		-	-	-	-	-	-	-	-	-	-	-
el RCP 4.5	e2 RCP 2.6	-	-	-	-	-	-	-	-			
el RCP 4.5		-										
0.005229 9.78E-05 0.000925 1.95E-06 2.92E-05 0.008301 0.014787 0.118339 94224 0.982079 0.973117										94224	0.983391	0.975084
e2 RCP 4.5	e1 RCP 4.5											
e2 RCP 4.5 0.004883 8.02E-05 0.005229 9.78E-05				0.000925	1.95E-06	2.92E-05						
el RCP 6.0 Color				-	-	-				94224	0.982079	0.973117
el RCP 6.0	e2 RCP 4.5			-	-	-						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0.005229	9.78E-05	-	-	-	0.008559	0.015225	0.107268			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		-	-	-	-	-	-	-	-	-	-	-
e2 RCP 6.0 -	e1 RCP 6.0	-	-	-	-	-	-	-	-			
e2 RCP 6.0 -		-	-	-	-	-	-	-	-			
el RCP 8.5		-	-	-	-	-	-	-	-	-	-	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	e2 RCP 6.0	-	-	-	-	-	-	-	-			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		-	-	-	=	-	=	=	-			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		-0.15638	-0.00332	0.035412	5.64E-06	-0.00133	0.524241	1.163694	6.589697	94224	0.948651	0.922968
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	e1 RCP 8.5	0.005136	7.15E-05	0.000783	1.46E-06	2.16E-05	0.011275	0.025562	0.100629			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0.005978	8.36E-05	0.000981	1.95E-06	2.52E-05	0.012867	0.030935	0.124017			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		-0.14533	-0.00503	-	-	-		0.939999		94224	0.94553	0.91829
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	e2 RCP 8.5	0.005136	7.15E-05	-	-	-	0.011443	0.025992	0.095991			
el RCP 2.6		0.005978		-	-	-	0.012844	0.030962	0.112752			
e1 RCP 2.6 e1 RCP 2.6 e1 RCP 2.6 e2 RCP 2.6 e2 RCP 4.5 e1 RCP 4.5 e1 RCP 4.5 e1 RCP 4.5 e1 RCP 6.0 e1 RCP	CO ₂ - NOIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	C	N	R^2	$R_{adi.}^2$
e2 RCP 2.6		-	-	-	-	-	-	-	-	-	-	-
e1 RCP 4.5	e1 RCP 2.6	-	-	-	-	-	-	-	-			
e1 RCP 4.5		-	-	-	-	-	-	-	-			
e1 RCP 4.5		-	-	-	-	-	-	-	-	-	-	-
e1 RCP 4.5	e2 RCP 2.6	-	-	-	-	-	-	-	-			
e1 RCP 4.5		-	-	-	-	-	-	-	-			
e2 RCP 4.5 0.004378 8.1E-05 0.000794 1.43E-06 2.27E-05 0.006977 0.012474 0.099021 e2 RCP 4.5 -0.20907 -0.00578 - - - 0.418281 0.766424 7.958213 94224 0.980781 0.97117 e2 RCP 4.5 0.00373 6.67E-05 - - - 0.006149 0.010605 0.074692 0.004378 8.1E-05 - - - 0.007166 0.012782 0.088814 e1 RCP 6.0 - - - - - - - - - -		-0.20967	-0.00373	0.040592	-6.3E-07	-0.00126	0.450121	0.806708	5.880648	94224	0.982493	0.973737
e2 RCP 4.5 0.20907 -0.00578 - - 0.418281 0.766424 7.958213 94224 0.980781 0.97117	e1 RCP 4.5	0.00373	6.67E-05	0.000575	1.02E-06	1.85E-05	0.005895	0.010153	0.077322			
e2 RCP 4.5 0.00373 6.67E-05 0.006149 0.010605 0.074692 0.004378 8.1E-05 0.007166 0.012782 0.088814 e1 RCP 6.0		0.004378	8.1E-05	0.000794	1.43E-06	2.27E-05	0.006977					
0.004378 8.1E-05 - - 0.007166 0.012782 0.088814 e1 RCP 6.0 - - - - - - - - - -		-0.20907	-0.00578	-	-	-	0.418281	0.766424	7.958213	94224	0.980781	0.97117
el RCP 6.0	e2 RCP 4.5	0.00373	6.67E-05	-	-	-	0.006149	0.010605	0.074692			
el RCP 6.0		0.004378	8.1E-05		<u> </u>		0.007166	0.012782	0.088814			
		-	-	-	-	-	=	=	-	-	-	-
	e1 RCP 6.0	-	-	-	-	-	-	-	-			
		<u> </u>			<u> </u>							

	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 8.5	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 8.5	-	-	-	-	-	-	-	-			
NOGO FIRE	-	- m²	-	- p2	-	-	-	-	37	D2	n2
NOCO ₂ -FIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	С	N	R^2	$R_{adj.}^2$
1 DCD 2 6	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	<u> </u>	-	-	-	<u>-</u>			
e2 RCP 2.6	-	-	-	-	_	-	-	-	-	-	-
02 KC1 2.0	-	-	-	-	-	-	-	-			
		<u> </u>	-		-		-				
e1 RCP 4.5	_	_	_	_	_	_	_	_			
011101 115	_	_	_	_	_	_	_	-			
	-	-	-	-	_	_	-	-	_	_	-
e2 RCP 4.5	_	_	-	_	_	_	_	_			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-0.09599	-0.00094	0.017314	-9.7E-06	-0.00052	-0.21043	-0.43524	4.795229	94224	0.953467	0.930194
e1 RCP 8.5	0.00426	5.93E-05	0.00065	1.21E-06	1.79E-05	0.009352	0.021202	0.083464			
	0.004876	7.2E-05	0.001045	2.66E-06	2.02E-05	0.010778	0.025822	0.102999	0.422.4	0.050551	0.020122
2 DCD 0.5	-0.08796	-0.00162	-	-	-	-0.25901	-0.53663	5.3994	94224	0.952751	0.929123
e2 RCP 8.5	0.00426	5.93E-05	-	-	-	0.009286	0.021092	0.077896			
NOCO NOTED	0.004876	7.2E-05	- D	- p2	- D. W.	0.010532	0.025386	0.090569	3.7	R ²	n²
NOCO ₂ - NOIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	С	N	R ²	$R_{adj.}^2$
-1 DCD 2 6	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
e2 RCP 2.6	-	-	-	-	_	-	-	-	-	-	-
62 KC1 2.0	-	-	-	-	_	-	_	-			
					_	_	_				
e1 RCP 4.5	_	-	_	_	_	_	_	_			
11.1.01 1.0	_	-	-	_	_	_	_	-			

	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 4.5	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 6.0	-	-	-	-	-	-	-	-			
		-	-	-	-	-	-	-			
	-0.08849	0.001451	0.03989	-1.4E-05	-0.00112	-0.09424	-0.171	1.706278	94224	0.957484	0.93622
e1 RCP 8.5	0.003218	4.48E-05	0.000491	9.13E-07	1.35E-05	0.007064	0.016016	0.06305			
	0.00397	5.36E-05	0.001079	3E-06	1.64E-05	0.008607	0.020579	0.086396			
	-0.07223	-0.0002	-	-	-	-0.18828	-0.36234	3.376811	94224	0.952052	0.928074
e2 RCP 8.5	0.003218	4.48E-05	-	-	-	0.007392	0.016792	0.062014			
	0.00397	5.36E-05	-	-	-	0.008636	0.02085	0.075233			

Tabla A42. Resultado de la estimación por efectos fijos para las especificaciones e1 y e2 bajo diferentes métodos de estimación del error estardar para el cultivo de maíz

CO ₂ - FIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	С	N	R ²	$R_{adj.}^2$
	0.298294	-0.01787	0.025401	-6E-05	0.000292	0.198996	0.204167	7.151648	94224	0.996275	0.994412
e1 RCP 2.6	0.005914	0.000144	0.000699	1.08E-06	2.87E-05	0.004309	0.004228	0.108113			
	0.007157	0.000171	0.000889	3.34E-06	4.76E-05	0.004765	0.004813	0.121824			
	0.274854	-0.01916	-	-	-	0.28285	0.287076	10.0561	94224	0.99586	0.993789
e2 RCP 2.6	0.005914	0.000144	-	-	-	0.004409	0.004328	0.103621			
	0.007157	0.000171	-	-	-	0.005048	0.005036	0.127267			
	-0.13825	-0.01563	-0.01362	-3.4E-05	0.001175	0.528516	0.889837	15.35593	94224	0.982509	0.973762
e1 RCP 4.5	0.006703	0.00012	0.001032	1.84E-06	3.33E-05	0.010593	0.018245	0.138938			
	0.008707	0.000155	0.001531	4.19E-06	3.93E-05	0.012768	0.022845	0.185582			
	-0.12412	-0.01408	-	-	-	0.565568	0.945704	14.99951	94224	0.982073	0.973109
e2 RCP 4.5	0.006703	0.00012	-	-	-	0.010676	0.018414	0.129683			
	0.008707	0.000155	-	-	-	0.012711	0.022728	0.16749			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-0.24106	-0.01144	0.018037	-3.5E-05	0.000101	0.761923	1.367892	14.69812	94224	0.954363	0.931538
e1 RCP 8.5	0.006552	9.13E-05	0.000999	1.86E-06	2.75E-05	0.014383	0.032611	0.128374			
	0.007634	0.000115	0.001808	4.59E-06	3.6E-05	0.017256	0.041608	0.154796			
	-0.22876	-0.01179	-	-	-	0.765327	1.394149	15.96209	94224	0.953583	0.930371
e2 RCP 8.5	0.006552	9.13E-05	-	-	-	0.014294	0.032469	0.11991			
	0.007634	0.000115	-	-	-	0.016442	0.039932	0.146821			
CO ₂ - NOIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	C	N	R^2	$R_{adj.}^2$
	0.194541	-0.01121	0.064037	-7.4E-05	-0.00073	0.156622	0.163828	2.79131	94224	0.996799	0.995198
e1 RCP 2.6	0.006061	0.000147	0.000716	1.1E-06	2.94E-05	0.004416	0.004333	0.110797			
	0.006978	0.000158	0.000979	3.77E-06	4.93E-05	0.00474	0.004781	0.123436			
	0.150807	-0.01532	-	-	-	0.289464	0.295928	8.51812	94224	0.995889	0.993833
e2 RCP 2.6	0.006061	0.000147	-	-	-	0.004857	0.004767	0.114151			
	0.006978	0.000158	-	-	-	0.005654	0.005591	0.136121			
	-0.10681	-0.01032	0.035553	-5E-05	-6.6E-05	0.443128	0.723172	8.638624	94224	0.990263	0.985393
e1 RCP 4.5	0.005531	9.9E-05	0.000852	1.52E-06	2.75E-05	0.008742	0.015056	0.114653			
	0.007331	0.000127	0.001873	5.99E-06	3.64E-05	0.010295	0.018408	0.163522			
	-0.08664	-0.01095	-	-	-	0.450891	0.745542	10.90557	94224	0.989635	0.984452
e2 RCP 4.5	0.005531	9.9E-05	-	-	-	0.008978	0.015486	0.109061			
	0.007331	0.000127	-	-	-	0.010388	0.018493	0.137903			
	0.018729	-0.00879	0.046214	-5.4E-05	-0.00029	0.262053	0.425875	5.423633	94224	0.986194	0.979289
e1 RCP 6.0	0.006657	9.11E-05	0.000859	1.68E-06	2.8E-05	0.008238	0.020174	0.130402			
	0.008461	0.000116	0.001381	4.28E-06	4.11E-05	0.010019	0.026072	0.172232			

	-0.01743	-0.00962	_			0.318105	0.599664	9.22072	94224	0.985087	0.977629
2 DCD (0			-	-	-				94224	0.983087	0.977629
e2 RCP 6.0	0.006657	9.11E-05	-	-	-	0.00834	0.02018	0.122974			
	0.008461	0.000116	-	-	-	0.010036	0.025752	0.159787			
	-0.19529	-0.00773	0.063799	-4.4E-05	-0.00103	0.716425	1.403763	8.395647	94224	0.974263	0.961391
e1 RCP 8.5	0.005297	7.38E-05	0.000808	1.5E-06	2.22E-05	0.011628	0.026364	0.103786			
	0.006269	9.34E-05	0.002125	5.91E-06	3.32E-05	0.014276	0.033814	0.143408			
	-0.16647	-0.01001	-	-	-	0.640299	1.278086	11.99044	94224	0.970695	0.95604
e2 RCP 8.5	0.005297	7.38E-05	-	-	-	0.012227	0.027774	0.102572			
	0.006269	9.34E-05		-	-	0.014044	0.033662	0.124009			
NOCO ₂ -FIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	C	N	R^2	$R_{adj.}^2$
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	_	-	-	_	-			
	-0.0828	-0.01602	-0.01869	-4.2E-05	0.001545	0.188114	0.314524	14.30671	94224	0.979979	0.969965
e1 RCP 4.5	0.007118	0.000127	0.001096	1.95E-06	3.54E-05	0.01125	0.019376	0.147554			
	0.009095	0.000166	0.001736	5.05E-06	4.32E-05	0.013274	0.023828	0.196477			
	-0.0646	-0.01398	-	-	-	0.237321	0.388072	13.81241	94224	0.979215	0.968821
e2 RCP 4.5	0.007118	0.000127	_	_	-	0.011411	0.019681	0.138611			
	0.009095	0.000166	_	_	_	0.013286	0.023818	0.175927			
	0.088471	-0.01401	-0.01833	-4.9E-05	0.00158	-0.07134	-0.32942	10.58872	94224	0.971988	0.957978
e1 RCP 6.0	0.00856	0.000117	0.001104	2.16E-06	3.61E-05	0.010594	0.025942	0.167687			
	0.01065	0.000155	0.001424	4.06E-06	4.75E-05	0.012924	0.033262	0.210779			
	0.047997	-0.01202	-	-	-	0.022197	-0.06796	11.12618	94224	0.970956	0.956432
e2 RCP 6.0	0.00856	0.000117	_	_	_	0.010507	0.025424	0.154927			
	0.01065	0.000155	_	_	_	0.012459	0.03182	0.196958			
	-0.16238	-0.01132	0.01611	-4.7E-05	0.000448	0.224638	0.382316	12.85113	94224	0.952897	0.929338
e1 RCP 8.5	0.006653	9.27E-05	0.001015	1.89E-06	2.79E-05	0.014605	0.033113	0.130353			
	0.007735	0.000121	0.002168	5.88E-06	3.65E-05	0.017362	0.041699	0.162573			
	-0.14853	-0.0114	-	-	-	0.254733	0.472185	14.28048	94224	0.95129	0.926931
e2 RCP 8.5	0.006653	9.27E-05	_	_	_	0.014635	0.033244	0.122773			
	0.007735	0.000121	_	_	_	0.016869	0.040897	0.150146			
NOCO ₂ - NOIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	С	N	R^2	$R_{adj.}^2$
	0.217911	-0.01128	0.064458	-7E-05	-0.00082	0.046267	0.085373	2.402688	94224	0.996741	0.995112
e1 RCP 2.6	0.006032	0.000146	0.000713	1.1E-06	2.93E-05	0.004395	0.004312	0.110267	, . <u></u> .	*********	-
	0.006905	0.000159	0.000971	3.52E-06	4.71E-05	0.004731	0.004772	0.123938			
	0.175308	-0.01546	-	-	-	0.174506	0.213046	8.053156	94224	0.995852	0.993777
e2 RCP 2.6	0.006032	0.000146	_	_	_	0.004813	0.004724	0.11311	, . <u></u> .	0.575052	0.,,,,,,
1.01 2.0	0.006905	0.000110	_	_	_	0.005596	0.005551	0.134686			
+	-0.05838	-0.00989	0.040337	-4.2E-05	-0.00036	0.198372	0.340457	7.557984	94224	0.989002	0.983502
			0.000886	1.58E-06	2.86E-05	0.009095	0.015664	0.119287	77227	0.707002	0.703302
el RCP 4.5	0.005755										
e1 RCP 4.5	0.005755 0.007473	0.000103 0.000133	0.001768	5.35E-06	3.89E-05	0.010572	0.018959	0.165863			

	-0.04094	-0.01092	-	-	-	0.19747	0.349996	10.0127	94224	0.988366	0.982549
e2 RCP 4.5	0.005755	0.000103	-	-	-	0.009312	0.016061	0.113113			
	0.007473	0.000133	-	-	-	0.010686	0.019085	0.14228			
	0.082354	-0.00815	0.051699	-4.1E-05	-0.00063	0.010238	-0.14222	3.975407	94224	0.984338	0.976505
e1 RCP 6.0	0.006938	9.49E-05	0.000895	1.75E-06	2.92E-05	0.008586	0.021027	0.135912			
	0.00852	0.000123	0.00134	3.56E-06	4.46E-05	0.010285	0.026804	0.177193			
	0.046182	-0.00944	-	-	-	0.056384	0.00675	7.971263	94224	0.983096	0.974642
e2 RCP 6.0	0.006938	9.49E-05	-	-	-	0.008689	0.021024	0.128116			
	0.00852	0.000123	-	-	-	0.010315	0.026556	0.1641			
	-0.11407	-0.00668	0.070102	-4.5E-05	-0.00121	0.259677	0.495512	6.24794	94224	0.971869	0.957799
e1 RCP 8.5	0.005427	7.56E-05	0.000828	1.54E-06	2.28E-05	0.011914	0.027013	0.106338			
	0.006377	9.71E-05	0.002266	6.36E-06	3.58E-05	0.014578	0.034364	0.147338			
	-0.0831	-0.00924	-	=	-	0.170417	0.343602	10.13735	94224	0.967511	0.951265
e2 RCP 8.5	0.005427	7.56E-05	-	-	-	0.012617	0.02866	0.105842			
	0.006377	9.71E-05	-	-	-	0.014561	0.034853	0.128092			

Tabla A43. Resultado de la estimación por efectos fijos para las especificaciones e1 y e2 bajo diferentes métodos de estimación del error estardar para el cultivo de mijo

CO ₂ - FIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	С	N	R ²	$R_{adj.}^2$
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-		-	-					
4 D CD 4 5	0.037265	-0.00563	0.005469	-2.4E-06	-0.00011	0.180091	0.326695	2.713099	94224	0.984384	0.976574
e1 RCP 4.5	0.002328	4.16E-05	0.000359	6.38E-07	1.16E-05	0.003678	0.006335	0.048246			
	0.002475	5.38E-05	0.00053	8.82E-07	1.69E-05	0.004067	0.007205	0.055237	0.122.1	0.0044.60	0.05.050
4 D GD 4 #	0.038559	-0.00583	-	-	-	0.178171	0.324953	3.027563	94224	0.984169	0.976253
e2 RCP 4.5	0.002328	4.16E-05	-	-	-	0.003671	0.006332	0.044597			
	0.002475	5.38E-05	-	-	-	0.004	0.007111	0.050912			
-1 DCD (0	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
-2 DCD (0	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 6.0	-	-	-	-	-	-	-	-			
	-0.00616	-0.00377	0.00803	-5.3E-06	-0.00019	0.239279	0.530228	2.720478	94224	0.944277	0.916406
e1 RCP 8.5	0.00181	-0.00377 2.52E-05	0.00803	5.14E-07	-0.00019 7.6E-06	0.239279	0.330228	0.035464	94224	0.944277	0.910400
e1 RCP 8.5	0.00181	2.52E-05 3.18E-05	0.000276	5.14E-07 1.12E-06	1.13E-05	0.003974	0.009009	0.035464			
	-0.002200	-0.00407	0.000499	1.12E-00	1.13E-03	0.222209	0.496388	3.072035	94224	0.943799	0.915694
e2 RCP 8.5	0.00181	2.52E-05	-	-	-	0.222209	0.490388	0.03308	94224	0.943799	0.913094
62 KC1 6.5	0.00181	3.18E-05	-	-	-	0.003943	0.011431	0.03308			
CO ₂ - NOIRR	T _{it}	7.16E-03	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	C 0.041810	N	R^2	$R_{adj.}^2$
CO2-NOIKK	1 it	^I it	r _{it}	P_{it}	F _{it} I _{it}	λ ₁	λ ₂	C			Radj.
e1 RCP 2.6	-	-	-	-	-	-	-	-	-	-	-
el KCP 2.0	-	-	-	-	-	-	-	-			
	<u> </u>	-		<u>-</u>	<u> </u>	<u>-</u>	<u>-</u>	<u>-</u>			
e2 RCP 2.6	-	-	-	-	-	-	-	-	-	-	-
C2 RC1 2.0	-	-	-	-	-	-	-	-			
	0.022317	-0.00384	0.008513	-5.6E-06	-0.00012	0.138419	0.248178	1.632553	94224	0.980149	0.97022
e1 RCP 4.5	0.001696	3.03E-05	0.000313	4.65E-07	8.43E-06	0.00268	0.004616	0.035149	77227	0.700177	0.77022
51 KC1 4.5	0.001090	3.66E-05	0.000261	7.12E-07	1.23E-05	0.002874	0.005058	0.040018			
	0.025295	-0.00411	-	-	-	0.137286	0.248378	2.148271	94224	0.97957	0.969353
e2 RCP 4.5	0.001696	3.03E-05	_	_	_	0.002706	0.004668	0.032875	, . <u></u> .	0.2.70.	0.,0,000
32 1(01 1.3	0.001090	3.66E-05	-	_	_	0.002700	0.005063	0.037414			
	-	-	-	-	_	-	-	-	_	-	-
e1 RCP 6.0	-	-	-	-	_	_	_	_			
	-	-	-	-	_	_	_	_			
<u> </u>											

e2 RCP 6.0	- - -	- - -	- - -	- - -	- - -	- - -	-	- - -	-	-	-
e1 RCP 8.5	0.011763 0.001815 0.002232	-0.0037 2.53E-05 3.22E-05	0.00639 0.000277 0.000564	-8.5E-06 5.15E-07 1.38E-06	-6.9E-05 7.62E-06 1.13E-05	0.092546 0.003985 0.004716	0.254014 0.009035 0.011452	2.309726 0.035566 0.04656	94224	0.919614	0.879409
e2 RCP 8.5	0.01553 0.001815 0.002232	-0.00388 2.53E-05 3.22E-05	- - -	-	- - -	0.084647 0.003948 0.004703	0.241112 0.008967 0.011537	2.64907 0.033117 0.04235	94224	0.91875	0.878119
NOCO ₂ -FIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	C	N	R^2	$R_{adj.}^2$
e1 RCP 2.6	- - -	- - -	- - -	-	- - -	- - -	-	- - -	-	-	-
e2 RCP 2.6	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	-	-
e1 RCP 4.5	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	-	-
e2 RCP 4.5	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	-	-
e1 RCP 6.0	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	-	-
e2 RCP 6.0	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	-	-
e1 RCP 8.5	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	-	-
e2 RCP 8.5	-	- - -	- - -	-	- - -		- - -	- - -	-	-	-
NOCO ₂ - NOIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	С	N	R ²	$R_{adj.}^2$
e1 RCP 2.6	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	-	-
e2 RCP 2.6	- - -	- - -	- - -	-	-	- - -	-	- - -	-	-	-
e1 RCP 4.5	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	-	-

	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 4.5	-	_	_	_	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	0.005235	-0.00217	0.014057	-6.8E-06	-0.00032	0.082396	0.196975	1.152298	94224	0.957872	0.936801
e1 RCP 8.5	0.001378	1.92E-05	0.00021	3.91E-07	5.78E-06	0.003024	0.006857	0.026993			
	0.001761	2.44E-05	0.000458	1.17E-06	9.39E-06	0.003644	0.008799	0.037601			
	0.011154	-0.00272	-	-	-	0.057333	0.149112	1.843564	94224	0.954386	0.931575
e2 RCP 8.5	0.001378	1.92E-05	-	-	-	0.003101	0.007044	0.026014			
	0.001761	2.44E-05	-	-	-	0.003669	0.008982	0.033536			

Tabla A44. Resultado de la estimación por efectos fijos para las especificaciones e1 y e2 bajo diferentes métodos de estimación del error estardar para el cultivo de sorgo

CO ₂ - FIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	С	N	R^2	$R_{adj.}^2$
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	0.121876	-0.01637	-0.00077	-7.8E-06	0.0003	0.298097	0.555806	7.980379	94224	0.955635	0.933446
e1 RCP 4.5	0.005535	9.9E-05	0.000853	1.52E-06	2.75E-05	0.008748	0.015067	0.114737			
	0.006491	0.000135	0.001087	1.54E-06	3.53E-05	0.010063	0.017857	0.13966			
	0.127298	-0.01601	-	-	-	0.309854	0.57349	8.117763	94224	0.955397	0.933092
e2 RCP 4.5	0.005535	9.9E-05	-	-	-	0.008732	0.01506	0.106067			
	0.006491	0.000135	-	-	-	0.01001	0.017791	0.128561			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	0.035621	-0.01073	0.010923	-1.5E-05	-9.6E-05	0.254268	0.354296	7.089051	94224	0.917082	0.875611
e1 RCP 8.5	0.004576	6.37E-05	0.000698	1.3E-06	1.92E-05	0.010046	0.022777	0.089664			
	0.005655	8.57E-05	0.001106	2.35E-06	2.58E-05	0.011594	0.028153	0.115715			
	0.042051	-0.01104	-	-	-	0.243199	0.338113	7.701404	94224	0.916615	0.874916
e2 RCP 8.5	0.004576	6.37E-05	-	-	-	0.009927	0.02255	0.083279			
	0.005655	8.57E-05	-	-	-	0.011565	0.028252	0.104601			
CO ₂ - NOIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	C	N	R^2	$R_{adj.}^2$
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	0.075724	-0.01127	0.022012	-9.3E-06	-0.00044	0.286484	0.525745	5.002229	94224	0.979779	0.969665
e1 RCP 4.5	0.004217	7.55E-05	0.00065	1.16E-06	2.1E-05	0.006665	0.01148	0.087421			
	0.005486	0.0001	0.000826	1.43E-06	2.75E-05	0.007634	0.01355	0.109425			
	0.08065	-0.01211	-	-	-	0.278132	0.517826	6.256816	94224	0.979279	0.968916
e2 RCP 4.5	0.004217	7.55E-05	-	-	-	0.006717	0.011585	0.08159			
	0.005486	0.0001	-	-	-	0.007628	0.01355	0.101718			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			

		-				-					
e2 RCP 6.0	_	_	_	_	_	_	_	_			
62 Ref 6.6	_	_	_	_	_	_	_	_			
	_	_	_	-	_	_	_	_	_	_	_
e1 RCP 8.5	_	_	_	_	_	_	_	_			
	_	_	_	_	_	_	_	_			
	_	-	-	-	-	-	-	-	-	-	-
e2 RCP 8.5	_	-	_	_	_	-	_	_			
	_	_	_	_	_	_	_	_			
NOCO ₂ -FIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	С	N	R^2	$R_{adj.}^2$
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 2.6	_	-	_	_	_	-	_	_			
	_	-	_	_	_	-	_	_			
	-	-	_	-	_	-	_	_	_	_	_
e2 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	_	-	-	-	-
e1 RCP 4.5	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 4.5	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	0.02284	-0.01079	0.006838	-2E-05	0.000123	0.239255	0.657098	7.322629	94224	0.915497	0.873233
e1 RCP 8.5	0.004575	6.37E-05	0.000698	1.3E-06	1.92E-05	0.010044	0.022773	0.089648			
	0.005666	8.45E-05	0.001175	2.7E-06	2.49E-05	0.011632	0.028195	0.115948			
	0.028798	-0.01084	-	-	-	0.244089	0.676115	7.82333	94224	0.914842	0.872256
e2 RCP 8.5	0.004575	6.37E-05	-	-	-	0.009936	0.02257	0.083352			
	0.005666	8.45E-05	-	-	-	0.011597	0.028291	0.104689			
NOCO2 - NOIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	C	N	R ²	$R_{adj.}^2$
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
		_	_	_	_	_	_	_			
e1 RCP 4.5	-										

	-	-	-	-	-	-	_	-	-	-	-
e2 RCP 4.5	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	0.006986	-0.00653	0.03525	-2E-05	-0.00075	0.235292	0.54905	3.877361	94224	0.957449	0.936168
e1 RCP 8.5	0.003568	4.97E-05	0.000544	1.01E-06	1.5E-05	0.007832	0.017757	0.069901			
	0.004706	6.74E-05	0.001222	3.23E-06	2.18E-05	0.009399	0.022626	0.100798			
	0.022473	-0.00786	-	-	-	0.175068	0.435613	5.632946	94224	0.954203	0.931301
e2 RCP 8.5	0.003568	4.97E-05	-	-	-	0.008007	0.018187	0.067166			
	0.004706	6.74E-05	-	-		0.009443	0.023088	0.087177			

Tabla A45. Resultado de la estimación por efectos fijos para las especificaciones e1 y e2 bajo diferentes métodos de estimación del error estardar para el cultivo de soya

CO ₂ - FIRR	T_{it}	T_{it}^{2}	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	С	N	R ²	$R_{adj.}^2$
	0.153954	-0.00765	0.004104	-1.3E-05	8.86E-05	0.103311	0.095229	2.195624	94224	0.993761	0.99064
e1 RCP 2.6	0.00199	4.83E-05	0.000235	3.63E-07	9.67E-06	0.00145	0.001422	0.036374			
	0.002828	6.27E-05	0.000297	8.75E-07	1.46E-05	0.001648	0.001647	0.042774			
	0.150368	-0.00784	-	-	-	0.118208	0.110031	2.688564	94224	0.99355	0.990324
e2 RCP 2.6	0.00199	4.83E-05	-	-	-	0.001431	0.001404	0.033622			
	0.002828	6.27E-05	-	-	-	0.0017	0.001683	0.044057			
	0.038742	-0.00733	-0.01345	-1.5E-06	0.000466	0.246161	0.426541	4.787682	94224	0.968544	0.952811
e1 RCP 4.5	0.002299	4.11E-05	0.000354	6.3E-07	1.14E-05	0.003633	0.006257	0.047649			
	0.0031	5.4E-05	0.000357	4.75E-07	1.15E-05	0.004332	0.0077	0.061045			
	0.039495	-0.00659	-	-	-	0.258583	0.442792	4.127224	94224	0.967593	0.951386
e2 RCP 4.5	0.002299	4.11E-05	-	-	-	0.003671	0.006331	0.04459			
	0.0031	5.4E-05	-	-	-	0.004344	0.007736	0.057485			
	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-
e2 RCP 6.0	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	0.100.1	0.044.550	0.045004
	-0.00084	-0.00532	-0.00876	1.05E-06	0.000221	0.319843	0.690762	4.713863	94224	0.911559	0.867324
e1 RCP 8.5	0.002331	3.25E-05	0.000355	6.61E-07	9.78E-06	0.005117	0.011601	0.045668			
	0.002795	4.17E-05	0.000363	5.19E-07	1.05E-05	0.005779	0.013984	0.051873	0.100.1	0.010000	0.047404
* D GD 0 *	-0.00382	-0.00494	-	-	-	0.334742	0.719128	4.259489	94224	0.910332	0.865491
e2 RCP 8.5	0.002331	3.25E-05	-	-	-	0.005077	0.011532	0.042589			
	0.002795	4.17E-05	-	-	<u>-</u>	0.005828	0.014147	0.05362	Г	- 2	_2
CO ₂ - NOIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	С	N	R ²	$R_{adj.}^2$
	0.107694	-0.00586	0.018758	-2.3E-05	-0.00021	0.103133	0.097196	1.064781	94224	0.994938	0.992407
e1 RCP 2.6	0.002124	5.15E-05	0.000251	3.87E-07	1.03E-05	0.001547	0.001518	0.038823			
	0.0028	6.09E-05	0.000345	1.41E-06	1.89E-05	0.001692	0.001726	0.044818			
	0.096316	-0.00705	-	-	-	0.140144	0.134227	2.695156	94224	0.993985	0.990978
e2 RCP 2.6	0.002124	5.15E-05	-	-	-	0.001637	0.001607	0.038473			
	0.0028	6.09E-05		-	-	0.001963	0.001955	0.048991			
	0.015948	-0.00551	0.002383	-1.3E-05	0.000181	0.215326	0.37166	3.115272	94224	0.983588	0.975379
e1 RCP 4.5	0.002	3.58E-05	0.000308	5.48E-07	9.94E-06	0.00316	0.005443	0.041452			
	0.002864	4.69E-05	0.000545	1.74E-06	1.05E-05	0.003811	0.006781	0.057615	0.100.1	0.00005	0.05.1005
l	0.020781	-0.00534	-	-	-	0.221942	0.383212	3.337313	94224	0.983256	0.974882
e2 RCP 4.5	0.002	3.58E-05	-	-	-	0.003178	0.005481	0.038602			
	0.002864	4.69E-05	-		-	0.003812	0.006781	0.051773			
	0.071655	-0.00466	0.007934	-1.9E-05	0.0001	0.131922	0.276881	1.559671	94224	0.976776	0.965161
e1 RCP 6.0	0.002423	3.32E-05	0.000313	6.11E-07	1.02E-05	0.002999	0.007344	0.047469			
	0.003486	4.41E-05	0.000492	1.67E-06	1.24E-05	0.003765	0.009706	0.065339			

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	0.064744	-0.00462	-	-	-	0.148153	0.324345	2.300704	94224	0.976025	0.964035
e2 RCP 6.0	0.002423	3.32E-05	-	-	-	0.002968	0.007182	0.043762			
	0.003486	4.41E-05	-	-	-	0.003667	0.009309	0.060179			
	-0.01523	-0.00391	0.006921	-1.1E-05	-1.9E-05	0.286747	0.628409	2.998937	94224	0.958225	0.937331
e1 RCP 8.5	0.001902	2.65E-05	0.00029	5.4E-07	7.98E-06	0.004175	0.009465	0.037261			
	0.002431	3.48E-05	0.000546	1.45E-06	8.85E-06	0.005039	0.012065	0.048598			
	-0.01078	-0.00407	-	-	-	0.282756	0.625597	3.419338	94224	0.957478	0.936214
e2 RCP 8.5	0.001902	2.65E-05	-	-	-	0.00415	0.009428	0.034817			
	0.002431	3.48E-05	_	_	_	0.004794	0.011579	0.044287			
NOCO ₂ -FIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	C	N	R^2	$R_{adj.}^2$
_	-	-	-	-	-	-	-	-	-	-	-
e1 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	_	-
e2 RCP 2.6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-			
	0.010133	-0.00784	-0.01948	-5.2E-06	0.000782	0.130843	0.226688	5.426912	94224	0.961067	0.941595
e1 RCP 4.5	0.00254	4.54E-05	0.000391	6.96E-07	1.26E-05	0.004014	0.006914	0.052652			
	0.003355	5.75E-05	0.000422	7.46E-07	1.37E-05	0.004685	0.008371	0.067725			
	0.013338	-0.00664	_	_	_	0.153188	0.256822	4.538934	94224	0.958642	0.93796
e2 RCP 4.5	0.00254	4.54E-05	_	_	_	0.004119	0.007104	0.050032			
02 1101 110	0.003355	5.75E-05	_	_	_	0.004755	0.008501	0.063692			
	0.072357	-0.00667	-0.01796	-1.2E-05	0.000763	0.005498	0.001055	3.884178	94224	0.944962	0.917434
e1 RCP 6.0	0.003091	4.23E-05	0.000399	7.8E-07	1.3E-05	0.003476	0.009368	0.06055	74224	0.544702	0.717434
CI RCI 0.0	0.004214	5.47E-05	0.000459	1.16E-06	1.51E-05	0.004749	0.0122	0.080875			
	0.064582	-0.00561	-	1.10L-00	- -	0.032494	0.07208	3.255406	94224	0.941864	0.912791
e2 RCP 6.0	0.003091	4.23E-05	_		_	0.003829	0.009266	0.056465	74224	0.541004	0.512751
C2 RC1 0.0	0.004214	5.47E-05	_		_	0.003627	0.011942	0.075361			
	-0.0177	-0.00531	-0.00998	-6.1E-06	0.000435	0.11263	0.227479	4.744483	94224	0.904816	0.85721
e1 RCP 8.5	0.002455	3.42E-05	0.000374	6.97E-07	1.03E-05	0.00539	0.01222	0.048105	77227	0.704010	0.03721
er Ker 6.5	0.002433	4.51E-05	0.000374	7.19E-07	1.03E-05	0.00539	0.01222	0.059369			
	-0.01989	-0.00477	-	7.19L-07	1.2E-03	0.144818	0.296987	4.404263	94224	0.902089	0.853125
e2 RCP 8.5	0.002455	3.42E-05	-	-	-	0.005387	0.012236	0.045188	94224	0.902069	0.655125
62 KC1 6.5	0.002433	4.51E-05	-	-	-	0.005387	0.012230	0.0602			
NOCO ₂ - NOIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	C 0.0002	N	R^2	$R_{adj.}^2$
1.1.2.02 1.0MH	0.119371	-0.00586	0.018348	-2.1E-05	-0.00024	0.043814	0.054003	0.883337	94224	0.99489	0.992334
e1 RCP 2.6	0.00209	5.07E-05	0.000247	3.81E-07	1.02E-05	0.001523	0.001494	0.038198) 1 <u>22</u> 1	0.77107	0.772334
011(01 2.0	0.002697	6.03E-05	0.000247	1.24E-06	1.72E-05	0.001523	0.001434	0.044303			
	0.10871	-0.00705	-	1.24E-00	1.72E-03	0.001032	0.001088	2.435088	94224	0.99402	0.991029
e2 RCP 2.6	0.00209	5.07E-05	-	-	-	0.001599	0.001569	0.037569	J7424	0.73402	0.771027
C2 RC1 2.0	0.002697	6.03E-05	-	-	=	0.001399	0.001309	0.037309			
	0.002697	-0.00531	0.004818	-9.1E-06	4.08E-05	0.108305	0.199497	2.949963	94224	0.980481	0.970719
		-0.00531 3.77E-05	0.004818	-9.1E-06 5.77E-07	4.08E-05 1.05E-05	0.108303	0.199497	0.043645	74424	0.700401	0.9/0/19
a1 DCD 4.5					しいつじ-いつ	U UU 11/8	0.005/31	U U4 1047			
e1 RCP 4.5	0.002106 0.00292	4.96E-05	0.000324	1.36E-06	1.17E-05	0.00396	0.007107	0.060105			

	0.021276	-0.00534	-	-	-	0.111087	0.205314	3.279287	94224	0.980235	0.970351
e2 RCP 4.5	0.002106	3.77E-05	-	-	-	0.003333	0.005749	0.040492			
	0.00292	4.96E-05	-	-	-	0.003957	0.007096	0.054216			
	0.078322	-0.00434	0.009088	-1.1E-05	-6.7E-05	0.021904	0.004036	1.379291	94224	0.972165	0.958243
e1 RCP 6.0	0.002548	3.49E-05	0.000329	6.43E-07	1.07E-05	0.003153	0.007722	0.049911			
	0.003531	4.74E-05	0.000448	1.16E-06	1.36E-05	0.003985	0.010355	0.069579			
	0.073421	-0.00451	-	-	-	0.03016	0.02986	2.06698	94224	0.971647	0.957468
e2 RCP 6.0	0.002548	3.49E-05	-	-	-	0.0031	0.007501	0.045706			
	0.003531	4.74E-05	-	-	-	0.003869	0.009935	0.063166			
	-0.00364	-0.00333	0.01467	-1.1E-05	-0.00024	0.098273	0.192165	2.242306	94224	0.949569	0.924345
e1 RCP 8.5	0.002003	2.79E-05	0.000305	5.68E-07	8.41E-06	0.004398	0.009971	0.039251			
	0.00256	3.75E-05	0.000643	1.7E-06	1.13E-05	0.00549	0.013138	0.054415			
	0.003286	-0.00384	-	-	-	0.078536	0.158001	3.033658	94224	0.947251	0.920872
e2 RCP 8.5	0.002003	2.79E-05	-	-	-	0.004432	0.010067	0.03718			
	0.00256	3.75E-05	-	-	-	0.005224	0.012618	0.047534			

Tabla A46. Resultado de la estimación por efectos fijos para las especificaciones e1 y e2 bajo diferentes métodos de estimación del error estándar para el cultivo de trigo

CO ₂ - FIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	С	N	R^2	$R_{adj.}^2$
	0.059865	-0.00349	0.025895	-3.6E-06	-0.00098	0.030273	0.026967	3.437793	94224	0.9968	0.9951
e1 RCP 2.6	0.003741	9.08E-05	0.000442	6.82E-07	1.82E-05	0.002726	0.002675	0.068396			
	0.004498	0.00011	0.000527	6.32E-07	2.09E-05	0.002881	0.002813	0.076713			
	0.057578	-0.00551	-	-	-	0.035919	0.034433	4.729112	94224	0.9966	0.9948
e2 RCP 2.6	0.003741	9.08E-05	-	-	-	0.002721	0.002671	0.063953			
	0.004498	0.00011	-	-	-	0.002825	0.002794	0.073368			
	-0.30095	-0.00524	0.026628	3.11E-05	-0.00145	0.580036	1.011002	10.69569	94224	0.9871	0.9806
e1 RCP 4.5	0.004205	7.52E-05	0.000648	1.15E-06	2.09E-05	0.006645	0.011445	0.08716			
	0.004885	9.43E-05	0.001109	3.34E-06	2.98E-05	0.007595	0.013325	0.115191			
	-0.31242	-0.00731	-	-	-	0.537996	0.95004	11.8039	94224	0.9861	0.9791
e2 RCP 4.5	0.004205	7.52E-05	-	-	-	0.006872	0.011853	0.08348			
	0.004885	9.43E-05	-	-	-	0.00802	0.014045	0.101172			
	-0.23773	-0.00402	0.026253	4.3E-05	-0.00181	0.424807	1.123286	9.645345	94224	0.9815	0.9723
e1 RCP 6.0	0.005168	7.07E-05	0.000667	1.3E-06	2.18E-05	0.006396	0.015663	0.101242			
	0.006106	8.92E-05	0.000901	2.54E-06	3.02E-05	0.007128	0.018611	0.127406			
	-0.18717	-0.00634	-	-	-	0.31652	0.819691	9.275044	94224	0.9792	0.9688
e2 RCP 6.0	0.005168	7.07E-05	-	-	-	0.006614	0.016004	0.097524			
	0.006106	8.92E-05	=	-	=	0.007484	0.019387	0.119795			
	-0.25852	-0.00356	0.026728	1.83E-05	-0.00132	0.661745	1.650663	9.27583	94224	0.9634	0.9451
e1 RCP 8.5	0.004646	6.47E-05	0.000709	1.32E-06	1.95E-05	0.0102	0.023127	0.091039			
	0.005249	7.43E-05	0.000868	1.31E-06	2.48E-05	0.010981	0.026053	0.109802			
	-0.25261	-0.00505	-	-	-	0.558144	1.422539	9.95754	94224	0.9606	0.9409
e2 RCP 8.5	0.004646	6.47E-05	-	-	-	0.010434	0.023701	0.08753			
	0.005249	7.43E-05	-	-	-	0.011216	0.026676	0.099404			
CO ₂ - NOIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	C	N	R^2	$R_{adj.}^2$
	-0.03248	-0.00247	0.042831	-1.1E-05	-0.00142	0.102444	0.121273	2.57774	94224	0.9941	0.9911
e1 RCP 2.6	0.003907	9.48E-05	0.000462	7.12E-07	1.9E-05	0.002847	0.002793	0.071431			
	0.004709	0.000106	0.000615	9.99E-07	2.29E-05	0.003155	0.003044	0.080422			
	-0.04344	-0.00571	-	-	-	0.129674	0.150454	5.106493	94224	0.9932	0.9899
e2 RCP 2.6	0.003907	9.48E-05	-	-	-	0.002947	0.002893	0.069259			
	0.004709	0.000106	-	-	-	0.003196	0.003164	0.078586			
	-0.24532	-0.00294	0.037074	7.55E-06	-0.00132	0.424923	0.785946	6.565322	94224	0.9850	0.9775
e1 RCP 4.5	0.003415	6.11E-05	0.000526	9.36E-07	1.7E-05	0.005396	0.009294	0.070778			
	0.003809	7.32E-05	0.000701	1.16E-06	2.22E-05	0.006203	0.010956	0.088689			
	-0.24812	-0.00502	-	-	-	0.389677	0.739241	8.383512	94224	0.9834	0.9751
e2 RCP 4.5	0.003415	6.11E-05	-	-	-	0.005658	0.009759	0.068733			
	0.003809	7.32E-05	<u> </u>		<u> </u>	0.006518	0.011507	0.080763			
	-0.19401	-0.00245	0.039508	9.62E-06	-0.00155	0.351578	0.904015	5.659091	94224	0.9786	0.9680
e1 RCP 6.0	0.004242	5.81E-05	0.000547	1.07E-06	1.79E-05	0.00525	0.012857	0.083105			
	0.004719	6.63E-05	0.000665	9.19E-07	2.2E-05	0.005678	0.014607	0.099454			

	-0.16326	-0.00462	-	-	-	0.282606	0.715789	6.770299	94224	0.9759	0.9638
e2 RCP 6.0	0.004242	5.81E-05	-	-	-	0.005434	0.013148	0.08012			
	0.004719	6.63E-05	-	-	-	0.006008	0.015305	0.093908			
	-0.1994	-0.00208	0.039793	-1.7E-06	-0.00131	0.532249	1.427921	5.329885	94224	0.9594	0.9390
e1 RCP 8.5	0.003696	5.15E-05	0.000564	1.05E-06	1.55E-05	0.008114	0.018395	0.072415			
	0.004053	5.77E-05	0.000867	1.87E-06	1.87E-05	0.008647	0.020455	0.086753			
	-0.18561	-0.00388	-	-	-	0.428578	1.21229	6.913744	94224	0.9546	0.9318
e2 RCP 8.5	0.003696	5.15E-05	-	-	-	0.008455	0.019205	0.070925			
	0.004053	5.77E-05	-	-	-	0.008932	0.02122	0.078536			
NOCO ₂ -FIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	С	N	R^2	$R_{adj.}^2$
	0.036096	-0.00228	0.021822	-8.6E-06	-0.00073	-0.10515	-0.07904	3.269462	94224	0.9966	0.9949
e1 RCP 2.6	0.003751	9.1E-05	0.000443	6.83E-07	1.82E-05	0.002733	0.002681	0.068563			
	0.004487	0.000109	0.000522	7.74E-07	2.12E-05	0.00293	0.002862	0.077268			
	0.033285	-0.00393	-	-	-	-0.09524	-0.06767	4.461429	94224	0.9964	0.9947
e2 RCP 2.6	0.003751	9.1E-05	-	-	-	0.002704	0.002654	0.063555			
	0.004487	0.000109	_	_	_	0.002822	0.002788	0.07319			
	-0.32357	-0.00454	0.014799	1.92E-05	-0.0008	0.352422	0.635942	10.75644	94224	0.9864	0.9796
e1 RCP 4.5	0.004152	7.43E-05	0.000639	1.14E-06	2.06E-05	0.006561	0.011301	0.086057			
	0.00469	9.26E-05	0.000913	2.12E-06	2.67E-05	0.007436	0.013059	0.108563			
	-0.32971	-0.00568	-	-	-	0.330013	0.603138	11.39969	94224	0.9860	0.9790
e2 RCP 4.5	0.004152	7.43E-05	_	_	_	0.006613	0.011406	0.08033			
	0.00469	9.26E-05	_	_	_	0.007613	0.013336	0.094651			
	-0.28337	-0.00346	0.011055	2.5E-05	-0.00096	0.197592	0.651538	10.1821	94224	0.9810	0.9716
e1 RCP 6.0	0.004994	6.83E-05	0.000644	1.26E-06	2.1E-05	0.00618	0.015134	0.097825	, .22 .	0.5010	0.57.10
	0.005831	8.34E-05	0.000745	1.52E-06	2.54E-05	0.006905	0.018074	0.120694			
	-0.24997	-0.00465	-	-	-	0.131282	0.463416	9.634421	94224	0.9802	0.9703
e2 RCP 6.0	0.004994	6.83E-05	_	_	_	0.006153	0.014889	0.090731		*****	
02 1101 0.0	0.005831	8.34E-05	_	_	_	0.006865	0.017796	0.108594			
	-0.2581	-0.00276	0.010167	6.28E-06	-0.00058	0.272982	0.832018	9.140006	94224	0.9638	0.9456
e1 RCP 8.5	0.004327	6.03E-05	0.00066	1.23E-06	1.82E-05	0.0095	0.021539	0.084789	, .22 .	0.5050	0.5 .50
01 1101 0.0	0.004811	7.05E-05	0.000808	1.31E-06	2.14E-05	0.010464	0.024829	0.10071			
	-0.25543	-0.00334	-	-	-	0.222904	0.719661	9.250887	94224	0.9630	0.9445
e2 RCP 8.5	0.004327	6.03E-05	_	_	_	0.009459	0.021486	0.07935	, .22 .	0.5050	0.5
	0.004811	7.05E-05	_	_	_	0.010517	0.024993	0.090654			
NOCO2 - NOIRR	T_{it}	T_{it}^2	P_{it}	P_{it}^2	$P_{it}T_{it}$	λ_1	λ_2	С	N	R^2	$R_{adj.}^2$
	-0.06243	-0.00094	0.041898	-1E-05	-0.00138	0.029136	0.067423	2.468727	94224	0.9942	0.9912
e1 RCP 2.6	0.003782	9.18E-05	0.000447	6.89E-07	1.84E-05	0.002756	0.002703	0.069133	, .22 .	0.55.2	0.5512
C1 RC1 2.0	0.004553	0.000103	0.0006	9.6E-07	2.26E-05	0.003047	0.002941	0.078194			
	-0.07337	-0.00411	-	7.0E 07	-	0.056196	0.096357	4.952108	94224	0.9933	0.9900
e2 RCP 2.6	0.003782	9.18E-05	_	_	_	0.002856	0.002803	0.067123	77227	0.7733	0.7700
02 RC1 2.0	0.003782	0.000103	-	-	-	0.002830	0.002803	0.076132			
	-0.26752	-0.0008	0.037436	5.72E-06	-0.00131	0.247689	0.501739	6.043184	94224	0.9854	0.9781
		-0.0008 5.77E-05	0.000496	8.83E-07	-0.00131 1.6E-05	0.247689	0.301739	0.066817	74424	0.7034	0.7/61
o1 DCD 4.5				0.00E-U/	1.05-05	0.003094	U.UU8 / /4	U.U0081 /			
e1 RCP 4.5	0.003223 0.003611	7E-05	0.000496	1.07E-06	2.18E-05	0.005818	0.010277	0.084492			

	-0.26995	-0.00287	-	-	-	0.212635	0.455616	7.880251	94224	0.9836	0.9754
e2 RCP 4.5	0.003223	5.77E-05	-	-	-	0.005371	0.009264	0.065246			
	0.003611	7E-05	-	-	-	0.006116	0.010782	0.075906			
	-0.2338	0.000199	0.038969	8.6E-06	-0.00149	0.177519	0.489564	5.231088	94224	0.9805	0.9708
e1 RCP 6.0	0.003837	5.25E-05	0.000495	9.68E-07	1.62E-05	0.004749	0.011629	0.07517			
	0.004313	6.1E-05	0.000633	8.89E-07	2.11E-05	0.005113	0.013254	0.090832			
	-0.20667	-0.0019	-	-	-	0.11443	0.318447	6.424173	94224	0.9777	0.9665
e2 RCP 6.0	0.003837	5.25E-05	-	-	-	0.004953	0.011985	0.073032			
	0.004313	6.1E-05	-	-	-	0.005364	0.013747	0.085078			
	-0.19541	0.000627	0.037271	-5.6E-06	-0.00118	0.169731	0.568399	4.192341	94224	0.9642	0.9462
e1 RCP 8.5	0.003188	4.44E-05	0.000486	9.05E-07	1.34E-05	0.006999	0.015867	0.062464			
	0.003518	5.04E-05	0.000895	2.23E-06	1.68E-05	0.007562	0.017809	0.076362			
	-0.18166	-0.00101	-	-	-	0.073525	0.368926	5.671313	94224	0.9594	0.9391
e2 RCP 8.5	0.003188	4.44E-05	-	-	-	0.007337	0.016665	0.061545			
	0.003518	5.04E-05	-	-	-	0.007755	0.018416	0.067895			

Tabla A47. Resultado de la evaluación fuera de la muestra, valores del RMSE para el cultivo de arroz

Emulador	CO ₂ -FIRR	CO ₂ -NOIRR	NOCO ₂ -FIRR	NOCO ₂ -NOIRR
e1-RCP2.6	=	0.114339221	1	0.090718347
e1-RCP4.5	0.68409905	0.571039404	0.403959411	0.416101282
e1-RCP6	0.63759814	0.464539889	0.358145544	0.31031974
e1-RCP8.5	1.12924042	0.81741217	0.52524207	0.419312564
e2-RCP2.6	=	0.151850938	1	0.113782117
e2-RCP4.5	0.69981532	0.605049284	0.425070939	0.426859303
e2-RCP6	0.6790907	0.60559766	0.380593407	0.383141352
e2-RCP8.5	1.14946572	0.824902453	0.557572237	0.398190422

Tabla A48. Resultado de la evaluación fuera de la muestra, valores del RMSE para el cultivo de canola

Emulador	CO2-FIRR	CO2-NOIRR	NOCO2-FIRR	NOCO2-NOIRR	
e1-RCP2.6	-	-	-	-	
e1-RCP4.5	-	0.239466574	-	-	
e1-RCP6	-	-	-	-	
e1-RCP8.5	-	0.470556823	0.454289016	0.31385836	
e2-RCP2.6	-	-	-	-	
e2-RCP4.5	-	0.242396603	-	-	
e2-RCP6	e2-RCP6 -		-	-	
e2-RCP8.5	-	0.433312737	0.4338008	0.329519413	

Tabla A49. Resultado de la evaluación fuera de la muestra, valores del RMSE para el cultivo de caña

Emulador	CO ₂ -FIRR	CO ₂ -NOIRR	NOCO ₂ -FIRR	NOCO ₂ -NOIRR
e1-RCP2.6	=	=	-	-
e1-RCP4.5	2.892200891	2.265175206	1	-
e1-RCP6	-	=	1	-
e1-RCP8.5	6.365673065	5.162808067	4.797271204	4.276760077
e2-RCP2.6	1	1	-	-
e2-RCP4.5	2.661351554	2.104252904	1	-
e2-RCP6	-	=	-	-
e2-RCP8.5	5.261358356	4.027193442	3.907298973	3.254281845

Tabla A50. Resultado de la evaluación fuera de la muestra, valores del RMSE para el cultivo de cebada

Emulador	CO ₂ -FIRR	CO ₂ -NOIRR	NOCO ₂ -FIRR	NOCO ₂ -NOIRR
e1-RCP2.6	-	=	1	-
e1-RCP4.5	1.130489425	0.864081653	-	-
e1-RCP6	-	-	-	-
e1-RCP8.5	2.312599829	=	0.880166816	0.775449837
e2-RCP2.6	=	=	-	-
e2-RCP4.5	1.06803642	0.868177483	-	-
e2-RCP6	=	=	-	-
e2-RCP8.5	2.040465905	6.088722194	0.85377341	0.70127765

Tabla A51. Resultado de la evaluación fuera de la muestra, valores del RMSE para el cultivo de maíz

Emulador	CO ₂ -FIRR	CO ₂ -NOIRR	NOCO ₂ -FIRR	NOCO ₂ -NOIRR
e1-RCP2.6	0.318663189	-	0.286915537	0.318663189
e1-RCP4.5	1.294490048	1.075734776	1.029496813	1.294490048
e1-RCP6	-	1.124855374	0.875435456	-
e1-RCP8.5	1.167897707	1.190123577	0.989640911	1.167897707
e2-RCP2.6	0.43021187	=	0.371253846	0.43021187
e2-RCP4.5	1.395646068	1.165000882	1.102956067	1.395646068
e2-RCP6	-	1.020264649	0.793515585	
e2-RCP8.5	1.259481514	1.302135053	1.05622044	1.259481514

Tabla A52. Resultado de la evaluación fuera de la muestra, valores del RMSE para el cultivo de mijo

Emulador	CO ₂ -FIRR	CO ₂ -NOIRR	NOCO ₂ -FIRR	NOCO ₂ -NOIRR
e1-RCP2.6	=	=	-	-
e1-RCP4.5	0.484135737	0.359626315	1	-
e1-RCP6	=	=	1	-
e1-RCP8.5	0.768727324	0.554994005	1	0.312972816
e2-RCP2.6	1	1	-	-
e2-RCP4.5	0.485220524	0.375956568	1	-
e2-RCP6	-	=	-	-
e2-RCP8.5	0.737423369	0.542287855	-	0.292686781

Tabla A53. Resultado de la evaluación fuera de la muestra, valores del RMSE para el cultivo de sorgo

Emulador	CO ₂ -FIRR	CO ₂ -NOIRR	NOCO ₂ -FIRR	NOCO ₂ -NOIRR	
e1-RCP2.6	=	=	ı	-	
e1-RCP4.5	0.964281332	0.8724657	-	-	
e1-RCP6	=	-	-	-	
e1-RCP8.5	1.175390783	=	1.353356393	0.847282883	
e2-RCP2.6	=	=	-	-	
e2-RCP4.5	0.989080867	0.88850734	-	-	
e2-RCP6	=	=	-	-	
e2-RCP8.5	1.201948794	=	1.423090271	0.822096747	

Tabla A54. Resultado de la evaluación fuera de la muestra, valores del RMSE para el cultivo de soya

Emulador	CO ₂ -FIRR	CO ₂ -NOIRR	NOCO ₂ -FIRR	NOCO ₂ -NOIRR
e1-RCP2.6	0.142561219	0.140697722	1	0.110518924
e1-RCP4.5	0.601957332	0.536773959	0.449686514	0.417556844
e1-RCP6	-	0.325161046	0.377644001	0.310575847
e1-RCP8.5	1.011891203	0.772015248	0.715298907	0.410274144
e2-RCP2.6	0.160014004	0.17815041	-	0.138313544
e2-RCP4.5	0.602776781	0.560898058	0.470728477	0.43173589
e2-RCP6	-	0.437909128	0.364154699	0.283453334
e2-RCP8.5	1.043424344	0.804017598	0.811165695	0.426447626

Tabla A55. Resultado de la evaluación fuera de la muestra, valores del RMSE para el cultivo de trigo

Emulador	CO ₂ -FIRR	CO ₂ -NOIRR	NOCO ₂ -FIRR	NOCO ₂ -NOIRR
e1-RCP2.6	0.162657847	0.23100304	0.174698967	0.19279784
e1-RCP4.5	1.177405623	0.802112307	0.79477383	0.570667456
e1-RCP6	0.857476222	0.873862953	0.734733998	0.683511797
e1-RCP8.5	2.444243022	2.014330648	1.747600614	1.215660681
e2-RCP2.6	0.163451304	0.24139865	0.181679416	0.205535377
e2-RCP4.5	1.080560109	0.775450117	0.73812149	0.555089858
e2-RCP6	0.832482605	0.931043879	0.724225027	0.733626115
e2-RCP8.5	2.130746303	1.766314809	1.602712851	1.028078076

Tabla A56. Resultado de la validación cruzada general, valores del RMSE para el cultivo de arroz

CO ₂ -FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	CO ₂ -FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	-	-	e2-RCP2.6	-	-	-	-
e1-RCP4.5	0.362901906	0.71752655	0.821113069	1.534309903	e2-RCP4.5	0.351194658	0.681348293	0.780677624	1.467736275
e1-RCP6	0.420868139	0.687715861	0.755795953	1.365781175	e2-RCP6	0.382288356	0.548103527	0.599450022	1.076150837
e1-RCP8.5	0.554427713	0.602515464	0.660490966	1.12224846	e2-RCP8.5	0.547666375	0.56887405	0.612779632	0.999775898
CO ₂ -NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	CO ₂ -NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	0.153653499	0.350568228	0.391182317	0.686975152	e2-RCP2.6	0.174499853	0.366032254	0.417134805	0.734971023
e1-RCP4.5	0.284836607	0.554045344	0.632565915	1.170637331	e2-RCP4.5	0.275700979	0.52737482	0.601445345	1.107925322
e1-RCP6	0.339378425	0.566461308	0.612032515	1.091035165	e2-RCP6	0.318801134	0.47724466	0.515981773	0.895518931
e1-RCP8.5	0.436486746	0.53007327	0.581680549	0.950757272	e2-RCP8.5	0.424082963	0.493435817	0.532304352	0.834461225
NOCO ₂ - FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	NOCO ₂ - FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	-	-	e2-RCP2.6	-	-	-	-
e1-RCP4.5	0.320075129	0.486452213	0.581617999	1.211986719	e2-RCP4.5	0.316519427	0.468513485	0.561345781	1.176288224
e1-RCP6	0.380686815	0.439612409	0.488867543	1.021385329	e2-RCP6	0.382006325	0.371487004	0.406938648	0.848091809
e1-RCP8.5	0.625065592	0.441263659	0.452598264	0.658498014	e2-RCP8.5	0.629816127	0.449465371	0.454253981	0.609068993
NOCO ₂ - NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	NOCO ₂ - NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	0.1266647	0.284939605	0.320264604	0.569783244	e2-RCP2.6	0.142816349	0.297712256	0.342602959	0.611895551
e1-RCP4.5	0.248678684	0.375222793	0.447297678	0.898041488	e2-RCP4.5	0.23555621	0.353737778	0.419065205	0.836001525
e1-RCP6	0.287279646	0.351227337	0.374534132	0.759889063	e2-RCP6	0.280609819	0.292152402	0.308800483	0.58456375
e1-RCP8.5	0.449407294	0.328057493	0.346040647	0.462509322	e2-RCP8.5	0.443396026	0.345502135	0.349890878	0.395620703

Tabla A57. Resultado de la validación cruzada general, valores del RMSE para el cultivo de canola

CO ₂ -FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	CO ₂ -FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	-	-	e2-RCP2.6	-	-	-	-
e1-RCP4.5	-	-	-	-	e2-RCP4.5	-	-	-	-
e1-RCP6	-	=	-	-	e2-RCP6	-	=	=	-
e1-RCP8.5	-	1	ı	-	e2-RCP8.5	-	İ	1	-
CO ₂ -NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	CO ₂ -NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	-	-	e2-RCP2.6	-	-	-	-
e1-RCP4.5	0.121129978	0.154498114	0.171283176	0.285606466	e2-RCP4.5	0.11800608	0.1496592	0.16294957	0.265898641
e1-RCP6	-	-	-	-	e2-RCP6	-	-	-	=
e1-RCP8.5	0.204636842	0.186011542	0.186778894	0.18243676	e2-RCP8.5	0.203653204	0.191910299	0.191012274	0.183579818
NOCO ₂ - FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	NOCO ₂ - FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	-	-	e2-RCP2.6	_	-	-	-
e1-RCP4.5	-	-	-	-	e2-RCP4.5	-	-	-	-
e1-RCP6	-	-	1	=	e2-RCP6	-	ı	ı	ı
e1-RCP8.5	0.359532439	0.34884819	0.348909495	0.338538976	e2-RCP8.5	0.360596132	0.351135783	0.351443594	0.343011275
NOCO ₂ - NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	NOCO ₂ - NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	=	-	-	e2-RCP2.6	-	=	=	=
e1-RCP4.5	-	-	-	-	e2-RCP4.5	-	-	-	-
e1-RCP6	-	-	-	-	e2-RCP6	-	-	-	-
e1-RCP8.5	0.232825243	0.219087168	0.22149996	0.212065246	e2-RCP8.5	0.232927833	0.234104822	0.236059853	0.243903902

Tabla A58. Resultado de la validación cruzada general, valores del RMSE para el cultivo de caña

CO ₂ -FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	CO ₂ -FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	-	-	e2-RCP2.6	-	-	-	-
e1-RCP4.5	1.565130548	2.012530416	2.486756931	5.372007794	e2-RCP4.5	1.557277887	1.910075316	2.372339907	5.152807437
e1-RCP6	-	-	-	-	e2-RCP6	-	-	-	-
e1-RCP8.5	2.995602271	2.199460507	2.244407435	3.409945824	e2-RCP8.5	2.98977568	2.219186867	2.20532278	2.931528177
CO ₂ -NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	CO ₂ -NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	-	-	e2-RCP2.6	-	-	-	-
e1-RCP4.5	1.432375565	1.610432656	1.998873996	4.413015289	e2-RCP4.5	1.418387778	1.506111532	1.871227925	4.130263707
e1-RCP6	-	-	-	-	e2-RCP6	-	-	-	-
e1-RCP8.5	2.736064207	1.913751357	1.898404865	2.73661242	e2-RCP8.5	2.718413318	1.971187028	1.912473813	2.315979991
NOCO ₂ - FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	NOCO ₂ - FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	=	-	=	e2-RCP2.6	-	=	=	=
e1-RCP4.5	-	ı	ı	ı	e2-RCP4.5	-	İ	1	İ
e1-RCP6	-	ı	ı	ı	e2-RCP6	-	İ	1	1
e1-RCP8.5	3.319097192	2.24704801	2.170579726	2.271032388	e2-RCP8.5	3.321406028	2.388966618	2.271919107	2.059700103
NOCO ₂ - NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	NOCO ₂ - NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	=	-	=	e2-RCP2.6	-	=	=	=
e1-RCP4.5	-	-	-	-	e2-RCP4.5	-	-	-	-
e1-RCP6	-	-	-	-	e2-RCP6	-	-	-	-
e1-RCP8.5	2.963376069	1.980409947	1.891955999	1.999145177	e2-RCP8.5	2.953029884	2.151211977	2.037345822	1.789716528

Tabla A59. Resultado de la validación cruzada general, valores del RMSE para el cultivo de cebada

CO ₂ -FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	CO ₂ -FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	-	-	e2-RCP2.6	-	-	-	-
e1-RCP4.5	0.35819303	0.652421741	0.742698561	1.378932188	e2-RCP4.5	0.350802974	0.618965302	0.704077019	1.30715736
e1-RCP6	-	-	-	=	e2-RCP6	=	=	-	-
e1-RCP8.5	0.588797323	0.57184032	0.595420577	0.890932217	e2-RCP8.5	0.586564323	0.555672733	0.567559543	0.786798394
CO ₂ -NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	CO ₂ -NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	-	-	e2-RCP2.6	-	-	-	-
e1-RCP4.5	0.311392702	0.577273614	0.65297312	1.182389595	e2-RCP4.5	0.305605968	0.554683862	0.625108141	1.121690153
e1-RCP6	-	-	-	-	e2-RCP6	=	-	-	=
e1-RCP8.5	-	-	ı	ı	e2-RCP8.5	-	ı	-	-
NOCO ₂ - FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	NOCO ₂ - FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	-	-	e2-RCP2.6	-	-	-	-
e1-RCP4.5	-	-	-	-	e2-RCP4.5	-	-	-	=
e1-RCP6	-	-	1	1	e2-RCP6	-	ı	-	-
e1-RCP8.5	0.794603512	0.663143747	0.645846789	0.500413706	e2-RCP8.5	0.799771764	0.690029918	0.672343291	0.54177366
NOCO ₂ - NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	NOCO ₂ - NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	1	1	e2-RCP2.6	-	ı	-	-
e1-RCP4.5	-	-	-	-	e2-RCP4.5	-	-	-	-
e1-RCP6	-	-	-	-	e2-RCP6	-	-	-	-
e1-RCP8.5	0.53323743	0.432166668	0.427648618	0.33338866	e2-RCP8.5	0.531532348	0.477910561	0.470750515	0.408165116

Tabla A60. Resultado de la validación cruzada general, valores del RMSE para el cultivo de maíz

CO ₂ -FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	CO ₂ -FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	0.248866715	0.573354602	0.653237172	1.238384484	e2-RCP2.6	0.304733904	0.686680196	0.798745638	1.456108777
e1-RCP4.5	0.500545917	0.717325917	0.832669213	1.596179027	e2-RCP4.5	0.498592369	0.752448048	0.870084434	1.639730271
e1-RCP6	ı	-	-	ı	e2-RCP6	ı	ı	-	-
e1-RCP8.5	1.043868061	0.751101415	0.725027315	1.106940128	e2-RCP8.5	1.035280417	0.746156021	0.719270571	1.12169633
CO ₂ -NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	CO ₂ -NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	0.231763784	0.510580194	0.553751065	1.013251416	e2-RCP2.6	0.322667972	0.665517435	0.759193669	1.34705651
e1-RCP4.5	0.428378978	0.589100914	0.68553998	1.289907839	e2-RCP4.5	0.41401439	0.605988476	0.693609603	1.276592782
e1-RCP6	0.481629154	0.502645426	0.483174705	0.877891496	e2-RCP6	0.474959103	0.535907599	0.56191508	0.970636312
e1-RCP8.5	0.836001528	0.650787433	0.653028098	1.046268469	e2-RCP8.5	0.815143833	0.636546807	0.628654191	0.992413854
NOCO ₂ - FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	NOCO ₂ - FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	-	-	e2-RCP2.6	-	-	-	-
e1-RCP4.5	0.569500716	0.471617491	0.565912718	1.184771799	e2-RCP4.5	0.554689975	0.503392529	0.600207961	1.23216557
e1-RCP6	0.764114364	0.571468284	0.53487364	0.624338571	e2-RCP6	0.731397315	0.534402533	0.50898858	0.738110532
e1-RCP8.5	1.303225891	0.907144099	0.845267479	0.697368051	e2-RCP8.5	1.285051637	0.882956558	0.814709615	0.728754616
NOCO ₂ - NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	NOCO ₂ - NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	0.198456915	0.453398498	0.498687496	0.941245139	e2-RCP2.6	0.267246394	0.589720648	0.685904389	1.254193502
e1-RCP4.5	0.457794719	0.409706121	0.501545982	1.006117496	e2-RCP4.5	0.432701206	0.420295878	0.495093733	0.9813169
e1-RCP6	0.600370578	0.467096375	0.412117781	0.580190941	e2-RCP6	0.563473531	0.438428288	0.420797831	0.617132505
e1-RCP8.5	1.037939483	0.717395711	0.681921611	0.619951855	e2-RCP8.5	1.015908807	0.729390667	0.680199135	0.610270903

Tabla A61. Resultado de la validación cruzada general, valores del RMSE para el cultivo de mijo

								1	
CO ₂ -FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	CO ₂ -FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	-	-	e2-RCP2.6	-	-	-	-
e1-RCP4.5	0.185395003	0.255696439	0.288345994	0.514702032	e2-RCP4.5	0.185880331	0.254698987	0.287627093	0.509682015
e1-RCP6	-	-	-	-	e2-RCP6	-	-	-	-
e1-RCP8.5	0.248772806	0.234779279	0.241644265	0.379400148	e2-RCP8.5	0.248964048	0.230014342	0.235562237	0.360808047
CO ₂ -NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	CO ₂ -NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	-	-	e2-RCP2.6	-	-	-	-
e1-RCP4.5	0.139630965	0.192348947	0.216226792	0.381151185	e2-RCP4.5	0.139535246	0.192927878	0.216318207	0.374492549
e1-RCP6	-	-	-	-	e2-RCP6	-	-	-	-
e1-RCP8.5	0.278906911	0.206710676	0.199035918	0.235979129	e2-RCP8.5	0.278631576	0.206818706	0.198379917	0.231142526
NOCO ₂ - FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	NOCO ₂ - FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	-	-	e2-RCP2.6	-	-	-	-
e1-RCP4.5	-	-	-	-	e2-RCP4.5	-	-	-	=
e1-RCP6	-	-	=	-	e2-RCP6	-	ı	=	-
e1-RCP8.5	-	-	=	-	e2-RCP8.5	-	ı	=	-
NOCO ₂ - NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	NOCO ₂ - NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	-	-	e2-RCP2.6	-	-	-	-
e1-RCP4.5	-	-	=	=	e2-RCP4.5	=	=	=	=
e1-RCP6	-	-	=	=	e2-RCP6	=	=	-	=
e1-RCP8.5	0.212724963	0.158217162	0.153797098	0.182315808	e2-RCP8.5	0.210925837	0.160544997	0.153830496	0.16746028

Tabla A62. Resultado de la validación cruzada general, valores del RMSE para el cultivo de sorgo

CO ₂ -FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	CO ₂ -FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	-	-	e2-RCP2.6	-	-	-	-
e1-RCP4.5	0.43442829	0.48991002	0.57655969	1.16137167	e2-RCP4.5	0.433130843	0.499625964	0.587864844	1.170746958
e1-RCP6	-	-	-	-	e2-RCP6	-	-	-	-
e1-RCP8.5	0.88403746	0.61318695	0.55863341	0.51233063	e2-RCP8.5	0.883167797	0.613792173	0.557395961	0.507970209
CO ₂ -NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	CO ₂ -NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	-	-	e2-RCP2.6	-	-	-	-
e1-RCP4.5	0.33784022	0.42644128	0.49954675	0.97620767	e2-RCP4.5	0.335333826	0.423164644	0.494421062	0.955092243
e1-RCP6	-	=	ı	-	e2-RCP6	-	-	-	-
e1-RCP8.5	-	=	ı	-	e2-RCP8.5	-	-	-	-
NOCO ₂ - FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	NOCO ₂ - FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	-	-	e2-RCP2.6	-	-	-	-
e1-RCP4.5	-	-	-	-	e2-RCP4.5	-	-	-	-
e1-RCP6	-	-	-	-	e2-RCP6	-	-	-	-
e1-RCP8.5	0.76670078	0.5426424	0.51346068	0.60168597	e2-RCP8.5	0.763929321	0.539566912	0.510421143	0.610573239
NOCO ₂ - NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	NOCO ₂ - NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	=	=	=	e2-RCP2.6	=	=	-	-
e1-RCP4.5	-	=	=	=	e2-RCP4.5	-	-	-	-
e1-RCP6	-	-	-	1	e2-RCP6	-	-	-	-
e1-RCP8.5	0.59665773	0.42389707	0.4074922	0.48983442	e2-RCP8.5	0.592573675	0.429675396	0.406818378	0.451330248

Tabla A63. Resultado de la validación cruzada general, valores del RMSE para el cultivo de soya

CO ₂ -FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	CO ₂ -FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	0.102587615	0.224408617	0.260209299	0.483857337	e2-RCP2.6	0.113005022	0.245507211	0.286860291	0.522452424
e1-RCP4.5	0.222856441	0.315230162	0.35631975	0.609538628	e2-RCP4.5	0.221217556	0.32669483	0.367520816	0.628436632
e1-RCP6	-	-	-	-	e2-RCP6	-	-	-	-
e1-RCP8.5	0.312407554	0.320509291	0.334745344	0.494769573	e2-RCP8.5	0.310593477	0.326085308	0.341367711	0.511951715
CO ₂ -NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	CO ₂ -NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	0.105769131	0.22987887	0.256150684	0.467469927	e2-RCP2.6	0.133755961	0.277563644	0.318165034	0.564527931
e1-RCP4.5	0.187194103	0.274806992	0.30873293	0.534031599	e2-RCP4.5	0.188451114	0.282265351	0.316785961	0.540018892
e1-RCP6	0.193428076	0.219630086	0.226377298	0.354374386	e2-RCP6	0.199814316	0.235562587	0.250834609	0.382411132
e1-RCP8.5	0.255976889	0.27477865	0.288077745	0.439796091	e2-RCP8.5	0.255333184	0.273814365	0.287757306	0.438294933
NOCO ₂ - FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	NOCO ₂ - FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	-	-	-	-	e2-RCP2.6	-	-	-	-
e1-RCP4.5	0.199838707	0.213203131	0.257370747	0.528137477	e2-RCP4.5	0.197276058	0.232027964	0.276568134	0.55583626
e1-RCP6	0.250468427	0.184396706	0.179931827	0.267649032	e2-RCP6	0.243688847	0.188919214	0.190448099	0.314214295
e1-RCP8.5	0.410671588	0.294370234	0.275467908	0.280681335	e2-RCP8.5	0.405444015	0.28731209	0.271384905	0.308768215
NOCO ₂ - NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	NOCO ₂ - NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	0.077208635	0.193473506	0.221143817	0.423305977	e2-RCP2.6	0.098520781	0.233783624	0.275335108	0.509915018
e1-RCP4.5	0.160204825	0.180884009	0.216344398	0.431050085	e2-RCP4.5	0.157975021	0.184128659	0.218966391	0.431207211
e1-RCP6	0.197168169	0.156585008	0.148849408	0.221310402	e2-RCP6	0.19356429	0.153681604	0.151657996	0.227827412
e1-RCP8.5	0.336780521	0.24191015	0.231336316	0.231689573	e2-RCP8.5	0.33392121	0.243553104	0.22961005	0.224238113

Tabla A64. Resultado de la validación cruzada general, valores del RMSE para el cultivo de trigo

CO ₂ -FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	CO ₂ -FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	0.120380445	0.213233421	0.244932271	0.4360413	e2-RCP2.6	0.124803156	0.207999651	0.242767314	0.438259173
e1-RCP4.5	0.362901906	0.71752655	0.821113069	1.534309903	e2-RCP4.5	0.351194658	0.681348293	0.780677624	1.467736275
e1-RCP6	0.420868139	0.687715861	0.755795953	1.365781175	e2-RCP6	0.382288356	0.548103527	0.599450022	1.076150837
e1-RCP8.5	0.554427713	0.602515464	0.660490966	1.12224846	e2-RCP8.5	0.547666375	0.56887405	0.612779632	0.999775898
CO ₂ -NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	CO ₂ -NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	0.153653499	0.350568228	0.391182317	0.686975152	e2-RCP2.6	0.174499853	0.366032254	0.417134805	0.734971023
e1-RCP4.5	0.284836607	0.554045344	0.632565915	1.170637331	e2-RCP4.5	0.275700979	0.52737482	0.601445345	1.107925322
e1-RCP6	0.339378425	0.566461308	0.612032515	1.091035165	e2-RCP6	0.318801134	0.47724466	0.515981773	0.895518931
e1-RCP8.5	0.436486746	0.53007327	0.581680549	0.950757272	e2-RCP8.5	0.424082963	0.493435817	0.532304352	0.834461225
NOCO ₂ - FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	NOCO ₂ - FIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	0.140642305	0.144954665	0.163987976	0.268932104	e2-RCP2.6	0.138266462	0.144292652	0.166869404	0.283878701
e1-RCP4.5	0.320075129	0.486452213	0.581617999	1.211986719	e2-RCP4.5	0.316519427	0.468513485	0.561345781	1.176288224
e1-RCP6	0.380686815	0.439612409	0.488867543	1.021385329	e2-RCP6	0.382006325	0.371487004	0.406938648	0.848091809
e1-RCP8.5	0.625065592	0.441263659	0.452598264	0.658498014	e2-RCP8.5	0.629816127	0.449465371	0.454253981	0.609068993
NOCO ₂ - NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5	NOCO ₂ - NOIRR	RCP2.6	RCP4.5	RCP6	RCP8.5
e1-RCP2.6	0.1266647	0.284939605	0.320264604	0.569783244	e2-RCP2.6	0.142816349	0.297712256	0.342602959	0.611895551
e1-RCP4.5	0.248678684	0.375222793	0.447297678	0.898041488	e2-RCP4.5	0.23555621	0.353737778	0.419065205	0.836001525
e1-RCP6	0.287279646	0.351227337	0.374534132	0.759889063	e2-RCP6	0.280609819	0.292152402	0.308800483	0.58456375
e1-RCP8.5	0.449407294	0.328057493	0.346040647	0.462509322	e2-RCP8.5	0.443396026	0.345502135	0.349890878	0.395620703

Tabla A65. Resultado de la validación cruzada por horizonte especificación e1, valores del RMSE para el cultivo de arroz

		CO ₂ -I	FIRR					CO ₂ -N	OIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	0.07023957	0.08680465	0.08058691	0.08659886
e1-RCP2.6	2035-2065	-	-	-	-	e1-RCP2.6	2035-2065	0.12752159	0.19650455	0.17236349	0.30737462
	2069-2099	-	-	-	-		2069-2099	0.09314596	0.27360567	0.32330062	0.62483074
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.18489699	0.17613338	0.180133	0.18514979		2005-2035	0.15656334	0.14641395	0.15289294	0.15496631
e1-RCP4.5	2035-2065	0.20686812	0.30916312	0.26268583	0.49817888	e1-RCP4.5	2035-2065	0.17385113	0.253734	0.21905749	0.40209561
	2069-2099	0.27885893	0.53770983	0.6564075	1.22157803		2069-2099	0.23548622	0.44085085	0.5327255	0.9897543
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.12169435	0.12247647	0.11841299	0.12257095		2005-2035	0.16399825	0.16538438	0.15177866	0.16448063
e1-RCP6	2035-2065	0.13608677	0.16324044	0.14516956	0.21979874	e1-RCP6	2035-2065	0.20544101	0.29269993	0.24239964	0.43703552
	2069-2099	0.13126551	0.23053622	0.26917705	0.46986014		2069-2099	0.29139931	0.47814818	0.55044432	0.99441143
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.2574356	0.2555682	0.25823104	0.25254767		2005-2035	0.20829358	0.20901647	0.21034386	0.20099413
e1-RCP8.5	2035-2065	0.24622668	0.3471681	0.29018164	0.53331609	e1-RCP8.5	2035-2065	0.19969592	0.27595277	0.23500756	0.41679647
	2069-2099	0.49696241	0.55592572	0.64145099	1.21361498		2069-2099	0.39938462	0.46065767	0.52852511	0.98738049
		NOCO	2-FIRR					NOCO ₂ -	-NOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	0.07014102	0.08642661	0.07979531	0.08534092
e1-RCP2.6	2035-2065	-	-	-	-	e1-RCP2.6	2035-2065	0.06991413	0.13214864	0.11008535	0.24212647
	2069-2099	-	-	-	-		2069-2099	0.06282885	0.23934865	0.290147	0.59023907
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.19153593	0.18478942	0.18738813	0.19206436		2005-2035	0.1606258	0.1536138	0.1574006	0.15873713
e1-RCP4.5	2035-2065	0.11129333	0.11136659	0.10094269	0.27625991	e1-RCP4.5	2035-2065	0.0964847	0.11563968	0.10264104	0.25322046
	2069-2099	0.29669788	0.24576294	0.34194771	0.84486237		2069-2099	0.24252952	0.24934254	0.33478171	0.76849662
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.19608286	0.19458382	0.18757862	0.19625728		2005-2035	0.17175154	0.17495313	0.15929769	0.17156269
e1-RCP6	2035-2065	0.11892301	0.17399818	0.11920397	0.3396472	e1-RCP6	2035-2065	0.10740934	0.1464718	0.10736714	0.26694266
	2069-2099	0.40556636	0.25163465	0.298067	0.76390259		2069-2099	0.32405001	0.24153116	0.28583461	0.69467996
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.2642013	0.26282254	0.26262785	0.25981813		2005-2035	0.21653669	0.21983243	0.21710399	0.20898889
e1-RCP8.5	2035-2065	0.24725177	0.16011065	0.19145634	0.1618529	e1-RCP8.5	2035-2065	0.18260523	0.12854704	0.14733334	0.14905958
	2069-2099	0.73473534	0.41222475	0.34083048	0.48230932		2069-2099	0.57867004	0.31802112	0.27668613	0.45814748

Tabla A66. Resultado de la validación cruzada por horizonte especificación e1, valores del RMSE para el cultivo de canola

		CO ₂ -l	FIRR					CO ₂ -N	OIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP2.6	2035-2065	-	-	-	-	e1-RCP2.6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	ı	ı	-		2005-2035	0.13586366	0.13427035	0.14078204	0.13583892
e1-RCP4.5	2035-2065	-	ı	ı	-	e1-RCP4.5	2035-2065	0.07760113	0.1086918	0.08964645	0.17720219
	2069-2099	-	ı	ı	-		2069-2099	0.1338854	0.19634275	0.23145948	0.40998
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	ı	ı	-		2005-2035	-	ı	1	ı
e1-RCP6	2035-2065	-	1	1	-	e1-RCP6	2035-2065	-	-	1	1
	2069-2099	-	-	1	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	0.19137618	0.19197133	0.19451496	0.19060019
e1-RCP8.5	2035-2065	-	-	-	-	e1-RCP8.5	2035-2065	0.10280292	0.09619759	0.09885643	0.09655637
	2069-2099	-	-	-	-		2069-2099	0.27657187	0.25154229	0.24806746	0.23446305
		NOCO	2-FIRR					NOCO ₂ -	NOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP2.6	2035-2065	-	-	-	-	e1-RCP2.6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP4.5	2035-2065	-	-	-	-	e1-RCP4.5	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP6	2035-2065	-	-	-	-	e1-RCP6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.23814542	0.23872614	0.23937011	0.23810153		2005-2035	0.18065004	0.1800696	0.18291763	0.17958602
e1-RCP8.5	2035-2065	0.2207151	0.21357255	0.22208055	0.20666863	e1-RCP8.5	2035-2065	0.14036166	0.12707485	0.13590746	0.12028174
	2069-2099	0.53242159	0.51593228	0.51407273	0.50201839		2069-2099	0.33011782	0.33257006	0.33583042	0.35115988

Tabla A67. Resultado de la validación cruzada por horizonte especificación e1, valores del RMSE para el cultivo de caña

		CO ₂ -I	FIRR					CO ₂ -N	OIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP2.6	2035-2065	-	-	-	-	e1-RCP2.6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	1.36726995	1.33723256	1.37284555	1.34079284		2005-2035	1.17432811	1.17041021	1.18043844	1.16023739
e1-RCP4.5	2035-2065	0.80940003	1.41801652	1.09619532	3.07612667	e1-RCP4.5	2035-2065	0.74085501	1.11134193	0.87419862	2.51373864
	2069-2099	2.19643925	2.88996095	3.93262394	8.67842857		2069-2099	2.05601231	2.27498111	3.13509707	7.12454062
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP6	2035-2065	-	-	-	-	e1-RCP6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	2.0277685	2.03956266	2.04227631	1.9626529		2005-2035	1.75274061	1.78850134	1.75719829	1.69309541
e1-RCP8.5	2035-2065	1.69535802	1.13475334	1.32604804	1.51130399	e1-RCP8.5	2035-2065	1.61672722	1.0351278	1.23451044	1.2224435
	2069-2099	4.4648421	3.01088003	3.03031323	5.36163645		2069-2099	4.09539198	2.59173806	2.48999221	4.25513836
		NOCO:	-FIRR					NOCO ₂ -	NOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP2.6	2035-2065	-	ı	-	-	e1-RCP2.6	2035-2065	-	-	-	1
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP4.5	2035-2065	-	-	-	-	e1-RCP4.5	2035-2065	-	-	-	-
	2069-2099	-	ı	1	-		2069-2099	-	-	-	ı
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	ı	-	-		2005-2035	-	-	-	1
e1-RCP6	2035-2065	-	-	-	-	e1-RCP6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	2.02951948	2.04200854	2.03389356	1.97453811		2005-2035	1.76481748	1.79874919	1.76344929	1.71413731
e1-RCP8.5	2035-2065	2.23644116	1.45385613	1.76120081	0.80208625	e1-RCP8.5	2035-2065	1.96110421	1.24159031	1.51011611	0.74085958
	2069-2099	4.89168684	2.9772769	2.62596606	3.306149		2069-2099	4.40275853	2.64367652	2.31263669	2.91592261

Tabla A68. Resultado de la validación cruzada por horizonte especificación e1, valores del RMSE para el cultivo de cebada

	-RCP2.6						CO ₂ -N	OIRR			
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP2.6	2035-2065	-	-	-	-	e1-RCP2.6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.33891965	0.32105017	0.34325824	0.32870377		2005-2035	0.27741482	0.26364458	0.29233396	0.27371474
e1-RCP4.5	2035-2065	0.30818143	0.5410647	0.4267324	0.89608314	e1-RCP4.5	2035-2065	0.27804544	0.467402	0.37694358	0.76276182
	2069-2099	0.418407	0.9386896	1.16399171	2.18937223		2069-2099	0.36963224	0.84365952	1.02546383	1.88080039
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP6	2035-2065	-	-	-	-	e1-RCP6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.54274335	0.54285881	0.55273924	0.53331312		2005-2035	-	-	-	-
e1-RCP8.5	2035-2065	0.29793045	0.38189291	0.32922537	0.56633866	e1-RCP8.5	2035-2065	-	-	-	-
	2069-2099	0.8103789	0.73516404	0.80601922	1.33271088		2069-2099	-	-	-	-
		NOCO	₂ -FIRR					NOCO ₂ -	-NOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP2.6	2035-2065	-	-	1	-	e1-RCP2.6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	1	ı		2005-2035	-	-	-	1
e1-RCP4.5	2035-2065	-	-	1	ı	e1-RCP4.5	2035-2065	-	-	-	1
	2069-2099	-	-	1	ı		2069-2099	-	-	-	1
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	1	ı		2005-2035	-	-	-	ı
e1-RCP6	2035-2065	-	-	1	ı	e1-RCP6	2035-2065	-	-	-	1
	2069-2099	-	-	1	ı		2069-2099	-	-	-	1
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.4587578	0.45989763	0.46126853	0.45551045		2005-2035	0.34552307	0.34688956	0.35331893	0.34166151
e1-RCP8.5	2035-2065	0.46340025	0.37806586	0.42401212	0.27293737	e1-RCP8.5	2035-2065	0.32683806	0.25105539	0.28730948	0.17744553
	2069-2099	1.21201721	0.98226232	0.92671424	0.6850234		2069-2099	0.79171785	0.61395676	0.58418235	0.43037715

Tabla A69. Resultado de la validación cruzada por horizonte especificación e1, valores del RMSE para el cultivo de maíz

		CO ₂ -l	FIRR					CO ₂ -N	OIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.22006491	0.25870046	0.24760593	0.25853225		2005-2035	0.21597866	0.274428	0.25422609	0.27259792
e1-RCP2.6	2035-2065	0.25674194	0.45580656	0.40564784	0.74362756	e1-RCP2.6	2035-2065	0.22652637	0.42432062	0.39910743	0.64125733
	2069-2099	0.26731805	0.84351701	1.02678992	1.99523621		2069-2099	0.25136104	0.72575319	0.83426799	1.61074974
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.52249807	0.50126918	0.52017573	0.52940583		2005-2035	0.42525271	0.39995594	0.4333727	0.42599171
e1-RCP4.5	2035-2065	0.3772728	0.56245795	0.482454	0.98937165	e1-RCP4.5	2035-2065	0.34967814	0.48082376	0.44641508	0.82889702
	2069-2099	0.57991349	0.9879472	1.25565497	2.5267045		2069-2099	0.49740424	0.80620309	1.0113342	2.03052887
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	0.42978675	0.44306957	0.41862061	0.43680928
e1-RCP6	2035-2065	-	-	-	-	e1-RCP6	2035-2065	0.35227277	0.43491654	0.33827332	0.64277933
	2069-2099	-	-	-	-		2069-2099	0.6221633	0.61032306	0.64085984	1.3069479
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.75696302	0.74886735	0.7632904	0.74728258		2005-2035	0.59856059	0.60853569	0.62076322	0.58209941
e1-RCP8.5	2035-2065	0.4409178	0.51670744	0.46466222	0.81902623	e1-RCP8.5	2035-2065	0.4228178	0.49933651	0.48178329	0.76737105
	2069-2099	1.58163841	0.92987694	0.88230981	1.5641976		2069-2099	1.24885788	0.80679626	0.81355699	1.53503586
		NOCO	₂ -FIRR					NOCO ₂ -	-NOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	0.21730429	0.27404412	0.25461697	0.27100626
e1-RCP2.6	2035-2065	-	-	-	-	e1-RCP2.6	2035-2065	0.16974971	0.34030894	0.32746508	0.54313878
	2069-2099	-	-	-	-		2069-2099	0.20522993	0.6525337	0.75763083	1.51307075
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.55315205	0.5360403	0.55169579	0.56010627		2005-2035	0.44026453	0.42117546	0.44894232	0.44048069
e1-RCP4.5	2035-2065	0.29574597	0.2713085	0.27870558	0.63598773	e1-RCP4.5	2035-2065	0.28854795	0.26836475	0.3005949	0.57589223
	2069-2099	0.76128203	0.55346334	0.7607408	1.86891766		2069-2099	0.5929884	0.50415168	0.68024894	1.58465837
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.55852082	0.55792022	0.55188963	0.56224286		2005-2035	0.45511814	0.46997349	0.44362667	0.45963662
e1-RCP6	2035-2065	0.32674107	0.26066059	0.23797457	0.34666714	e1-RCP6	2035-2065	0.32938355	0.28543708	0.20888173	0.39933785
	2069-2099	1.15451594	0.77492521	0.70502154	0.85621307		2069-2099	0.87504768	0.59345401	0.51873596	0.79945484
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.78425025	0.77930508	0.78833561	0.77477633		2005-2035	0.62659874	0.63981832	0.64502517	0.60990919
e1-RCP8.5	2035-2065	0.60520351	0.42284315	0.49989899	0.37464383	e1-RCP8.5	2035-2065	0.51895439	0.35938254	0.44884261	0.36729629
	2069-2099	2.02826858	1.29715786	1.12785606	0.84754365		2069-2099	1.60312678	1.00271956	0.88177894	0.80381909

Tabla A70. Resultado de la validación cruzada por horizonte especificación e1, valores del RMSE para el cultivo de mijo

	CRCP2.6 2005-2035 -						CO ₂ -N	OIRR			
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP2.6	2035-2065	-	-	-	-	e1-RCP2.6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.1790088	0.17367997	0.17515351	0.17810063		2005-2035	0.12585653	0.12204533	0.12464976	0.12519631
e1-RCP4.5	2035-2065	0.13475669	0.18895649	0.16570979	0.31292729	e1-RCP4.5	2035-2065	0.10727427	0.1465077	0.13324313	0.23860024
	2069-2099	0.23002261	0.36093313	0.43736912	0.81554351		2069-2099	0.17647318	0.27319367	0.32706388	0.60268108
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP6	2035-2065	-	-	-	-	e1-RCP6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.21043017	0.2086747	0.20925457	0.20815389		2005-2035	0.21354152	0.21195454	0.21246903	0.21192216
e1-RCP8.5	2035-2065	0.16775024	0.19034886	0.17448843	0.25986798	e1-RCP8.5	2035-2065	0.16601513	0.13259553	0.14242989	0.1356358
	2069-2099	0.33651557	0.29255104	0.31771397	0.56654568		2069-2099	0.40025765	0.25628423	0.23112016	0.32210305
		NOCO	2-FIRR					NOCO ₂ -	-NOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP2.6	2035-2065	-	ı	-	-	e1-RCP2.6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP4.5	2035-2065	-	-	-	-	e1-RCP4.5	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP6	2035-2065	-	-	-	-	e1-RCP6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	1	-		2005-2035	0.16020899	0.16120012	0.1606439	0.1569655
e1-RCP8.5	2035-2065	-	-	-	-	e1-RCP8.5	2035-2065	0.12389444	0.10140397	0.1103207	0.11170359
	2069-2099	-	-	-	-		2069-2099	0.30779697	0.19705271	0.18161366	0.25020252

Tabla A71. Resultado de la validación cruzada por horizonte especificación e1, valores del RMSE para el cultivo de sorgo

		CO ₂ -l	FIRR					CO ₂ -N	OIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP2.6	2035-2065	-	-	-	-	e1-RCP2.6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.42525955	0.4098894	0.41579054	0.42449813		2005-2035	0.31598266	0.3051025	0.31269306	0.31335774
e1-RCP4.5	2035-2065	0.25795642	0.32709221	0.28915771	0.65140296	e1-RCP4.5	2035-2065	0.22701726	0.31036734	0.27776861	0.57641452
	2069-2099	0.56462077	0.66711083	0.86067954	1.85521643		2069-2099	0.43706539	0.59677557	0.75743548	1.55836372
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP6	2035-2065	-	-	-	-	e1-RCP6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.53018332	0.5241984	0.52639541	0.52550013		2005-2035	-	-	-	-
e1-RCP8.5	2035-2065	0.44171123	0.34491607	0.37264595	0.35380889	e1-RCP8.5	2035-2065	-	-	-	-
	2069-2099	1.36688095	0.85688019	0.72128825	0.62138306		2069-2099	-	-	-	-
		NOCO	2-FIRR					NOCO ₂ -	-NOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP2.6	2035-2065	-	1	-	-	e1-RCP2.6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP4.5	2035-2065	-	-	-	-	e1-RCP4.5	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e1-RCP6	2035-2065	-	-	-	-	e1-RCP6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.53332575	0.52665317	0.52962462	0.52941565		2005-2035	0.41117051	0.41259662	0.41224514	0.40076671
e1-RCP8.5	2035-2065	0.44243402	0.34124539	0.37054878	0.3422967	e1-RCP8.5	2035-2065	0.33986476	0.27429614	0.29933509	0.30744587
	2069-2099	1.13283097	0.69969303	0.610833	0.82983737		2069-2099	0.88511701	0.54184116	0.48846917	0.68167174

Tabla A72. Resultado de la validación cruzada por horizonte especificación e1, valores del RMSE para el cultivo de soya

		CO ₂ -J	FIRR					CO ₂ -N	OIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.0779974	0.08599513	0.08440618	0.08601695		2005-2035	0.07784996	0.09517327	0.08959826	0.09579283
e1-RCP2.6	2035-2065	0.11512587	0.1844685	0.16377118	0.297121	e1-RCP2.6	2035-2065	0.11678408	0.19713174	0.17672982	0.30050667
	2069-2099	0.11061237	0.33114029	0.41131647	0.77889278		2069-2099	0.1177378	0.33258685	0.39696126	0.74572372
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.17765361	0.17007678	0.17512904	0.17890442		2005-2035	0.15171238	0.1432711	0.15099971	0.15070302
e1-RCP4.5	2035-2065	0.19696157	0.25400449	0.2297637	0.39028586	e1-RCP4.5	2035-2065	0.16611707	0.22515106	0.2041503	0.34835436
	2069-2099	0.28042881	0.45240002	0.54537121	0.96451136		2069-2099	0.23348099	0.3941282	0.47060579	0.84350879
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	0.1540991	0.1555342	0.15101622	0.15558785
e1-RCP6	2035-2065	-	-	1	-	e1-RCP6	2035-2065	0.14556737	0.17261553	0.15371462	0.23876156
	2069-2099	-	ı	ı	-		2069-2099	0.25943568	0.30120611	0.32757589	0.54362575
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.26007159	0.25562815	0.26040376	0.26059493		2005-2035	0.21251029	0.21063667	0.21497515	0.20896896
e1-RCP8.5	2035-2065	0.21631609	0.24991383	0.22862671	0.33894086	e1-RCP8.5	2035-2065	0.18155233	0.22184631	0.20342098	0.3041683
	2069-2099	0.42233347	0.42470689	0.46484734	0.7426979		2069-2099	0.34416657	0.36459063	0.40171128	0.66638984
		NOCO	2-FIRR					NOCO ₂ -	-NOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	0.07704169	0.09308157	0.08838894	0.0928092
e1-RCP2.6	2035-2065	-	-	-	-	e1-RCP2.6	2035-2065	0.06981484	0.14348355	0.12609291	0.24225337
	2069-2099	-	-	-	-		2069-2099	0.08410699	0.28817405	0.35071603	0.68575769
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.19952996	0.19042868	0.19680439	0.20152687		2005-2035	0.16096064	0.15437708	0.16147627	0.15980031
e1-RCP4.5	2035-2065	0.11779486	0.14563813	0.1309642	0.29864515	e1-RCP4.5	2035-2065	0.09785816	0.12490291	0.11595712	0.24770553
	2069-2099	0.25713555	0.28087929	0.37793586	0.84082434		2069-2099	0.20374545	0.24233046	0.31763824	0.68594341
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.2036299	0.1978076	0.1985331	0.20383409		2005-2035	0.16467759	0.16680738	0.1627567	0.16494675
e1-RCP6	2035-2065	0.10663889	0.0877473	0.08010899	0.14756365	e1-RCP6	2035-2065	0.09813699	0.09410133	0.07782316	0.14238517
	2069-2099	0.36792161	0.23490211	0.22648078	0.38933873		2069-2099	0.28262393	0.19203341	0.18417995	0.31536315
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.28282074	0.27850581	0.28301377	0.28264601		2005-2035	0.2318664	0.23230152	0.2346057	0.22605048
e1-RCP8.5	2035-2065	0.19577024	0.15009363	0.16421341	0.15835097	e1-RCP8.5	2035-2065	0.1680272	0.12837811	0.14620685	0.13694497
	2069-2099	0.62260734	0.39983487	0.34725331	0.36246688		2069-2099	0.50820093	0.32421695	0.29005723	0.30197257

Tabla A73. Resultado de la validación cruzada por horizonte especificación e1, valores del RMSE para el cultivo de trigo

		CO ₂ -J	FIRR					CO ₂ -N	OIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.14736185	0.15965804	0.15770117	0.15339392		2005-2035	0.14282142	0.17341819	0.17647837	0.16186643
e1-RCP2.6	2035-2065	0.09975743	0.15334646	0.1290729	0.24843876	e1-RCP2.6	2035-2065	0.14865578	0.27456206	0.21971766	0.42700753
	2069-2099	0.10866137	0.29563432	0.3720833	0.69652318		2069-2099	0.16832022	0.51306535	0.61615773	1.09875766
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.32781528	0.30537307	0.32786644	0.31048991		2005-2035	0.25327566	0.23969084	0.26463874	0.24440081
e1-RCP4.5	2035-2065	0.32796027	0.59184369	0.45785246	0.98745186	e1-RCP4.5	2035-2065	0.24377367	0.44031159	0.34408001	0.74179468
	2069-2099	0.4243496	1.04928613	1.30596889	2.44762241		2069-2099	0.34615244	0.81827424	1.00597922	1.87114515
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.33287285	0.32400038	0.32641736	0.32479347		2005-2035	0.26713934	0.27372208	0.26671235	0.26488711
e1-RCP6	2035-2065	0.3600786	0.59217876	0.44297396	0.92903479	e1-RCP6	2035-2065	0.30120838	0.49092784	0.37089533	0.7534757
	2069-2099	0.53937838	0.9814313	1.18781663	2.15115741		2069-2099	0.42830273	0.80417741	0.9565838	1.71265361
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.51243069	0.51246752	0.52538661	0.49501366		2005-2035	0.39112669	0.39901528	0.40885624	0.37994606
e1-RCP8.5	2035-2065	0.2688817	0.40581486	0.32889638	0.68175124	e1-RCP8.5	2035-2065	0.24281694	0.34629578	0.29192795	0.55589911
	2069-2099	0.76634698	0.81349001	0.96153057	1.75171389		2069-2099	0.59968483	0.75086554	0.87331061	1.50280915
		NOCO:	₂ -FIRR					NOCO ₂	-NOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.14926951	0.15964259	0.15649268	0.15314171		2005-2035	0.13799425	0.16762844	0.16977071	0.15597404
e1-RCP2.6	2035-2065	0.1421153	0.11360126	0.1257774	0.12500363	e1-RCP2.6	2035-2065	0.1095509	0.20060771	0.15826179	0.32641751
	2069-2099	0.12985618	0.15698587	0.20091355	0.42177617		2069-2099	0.13072117	0.41860362	0.50382473	0.91819526
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.32538948	0.30655389	0.32361519	0.30726948		2005-2035	0.2430659	0.23066685	0.25026712	0.23351045
e1-RCP4.5	2035-2065	0.18278319	0.37033607	0.26512992	0.72627095	e1-RCP4.5	2035-2065	0.15842697	0.27082522	0.205855	0.5301018
	2069-2099	0.40994665	0.6919416	0.91641575	1.94546945		2069-2099	0.31834435	0.54389607	0.70371566	1.44357213
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.32629139	0.3185496	0.32121643	0.31652527		2005-2035	0.25091313	0.25665351	0.2449752	0.24677241
e1-RCP6	2035-2065	0.1922125	0.36161433	0.22712362	0.66404336	e1-RCP6	2035-2065	0.18234427	0.31726784	0.20722314	0.53270259
	2069-2099	0.53977369	0.58952391	0.74980617	1.60889469		2069-2099	0.38907834	0.4511674	0.56380242	1.17797517
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.48495038	0.48616883	0.49428099	0.47194951		2005-2035	0.35292603	0.3586283	0.36190081	0.34345932
e1-RCP8.5	2035-2065	0.28352491	0.18970954	0.2375161	0.3092862	e1-RCP8.5	2035-2065	0.24991119	0.16309258	0.21129816	0.21496034
	2069-2099	0.92550404	0.55838249	0.56018566	0.99119353		2069-2099	0.64721586	0.40945294	0.4285012	0.69106611

Tabla A74. Resultado de la validación cruzada por horizonte especificación e2, valores del RMSE para el cultivo de arroz

		CO ₂ -J	FIRR					CO ₂ -N	OIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	0.07855998	0.08628938	0.08302544	0.08639867
e2-RCP2.6	2035-2065	-	-	-	-	e2-RCP2.6	2035-2065	0.12752159	0.19650455	0.17236349	0.30737462
	2069-2099	-	-	-	-		2069-2099	0.12890776	0.35165523	0.43397252	0.78644848
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.18584566	0.17670147	0.18043414	0.18641772		2005-2035	0.15604872	0.14932075	0.15176905	0.15678511
e2-RCP4.5	2035-2065	0.20686812	0.30916312	0.26268583	0.49817888	e2-RCP4.5	2035-2065	0.17385113	0.253734	0.21905749	0.40209561
	2069-2099	0.27944281	0.54539227	0.66658206	1.22855566		2069-2099	0.2355533	0.44208324	0.5361907	0.9747803
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.12195402	0.12215821	0.11904325	0.12323084		2005-2035	0.16386536	0.1629821	0.15723494	0.16618842
e2-RCP6	2035-2065	0.13608677	0.16324044	0.14516956	0.21979874	e2-RCP6	2035-2065	0.20544101	0.29269993	0.24239964	0.43703552
	2069-2099	0.13617308	0.24654586	0.28908406	0.49656266		2069-2099	0.30076315	0.49494206	0.57919644	1.01297533
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.25675494	0.25517397	0.25783295	0.25473383		2005-2035	0.21063438	0.21084743	0.21242421	0.20964965
e2-RCP8.5	2035-2065	0.24622668	0.3471681	0.29018164	0.53331609	e2-RCP8.5	2035-2065	0.19969592	0.27595277	0.23500756	0.41679647
	2069-2099	0.49773255	0.55343881	0.63982904	1.20276883		2069-2099	0.39476386	0.44728416	0.51444521	0.94547618
		NOCO	2-FIRR					NOCO ₂ -	-NOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	0.07817048	0.08585475	0.08239153	0.08544685
e2-RCP2.6	2035-2065	-	-	-	-	e2-RCP2.6	2035-2065	0.06991413	0.13214864	0.11008535	0.24212647
	2069-2099	-	-	-	-		2069-2099	0.08744089	0.30270688	0.38454057	0.73278329
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.19294202	0.18582478	0.18822139	0.19373663		2005-2035	0.16171023	0.15814766	0.15890468	0.16285237
e2-RCP4.5	2035-2065	0.11129333	0.11136659	0.10094269	0.27625991	e2-RCP4.5	2035-2065	0.0964847	0.11563968	0.10264104	0.25322046
	2069-2099	0.29298467	0.25400213	0.35269876	0.85195899		2069-2099	0.23702049	0.24118004	0.32379418	0.73422137
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.19593099	0.19329183	0.18803505	0.19732649		2005-2035	0.17183958	0.17321918	0.16712473	0.17406743
e2-RCP6	2035-2065	0.11892301	0.17399818	0.11920397	0.3396472	e2-RCP6	2035-2065	0.10740934	0.1464718	0.10736714	0.26694266
	2069-2099	0.39964696	0.26679233	0.32604368	0.81085376		2069-2099	0.31866728	0.23015625	0.27485685	0.63738473
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.26399011	0.26271503	0.26334695	0.26294577		2005-2035	0.2265125	0.22885706	0.22811673	0.22643564
e2-RCP8.5	2035-2065	0.24725177	0.16011065	0.19145634	0.1618529	e2-RCP8.5	2035-2065	0.18260523	0.12854704	0.14733334	0.14905958
	2069-2099	0.7319483	0.41080302	0.33591113	0.47974788		2069-2099	0.57146992	0.33382809	0.28330978	0.389219

Tabla A75. Resultado de la validación cruzada por horizonte especificación e2, valores del RMSE para el cultivo de canola

		CO ₂ -l	FIRR					CO ₂ -N	IOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e2-RCP2.6	2035-2065	-	-	-	-	e2-RCP2.6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	0.13692261	0.13709469	0.13912136	0.13681965
e2-RCP4.5	2035-2065	-	-	-	-	e2-RCP4.5	2035-2065	0.07143671	0.09923809	0.0820332	0.1590693
	2069-2099	-	-	-	-		2069-2099	0.1338854	0.19634275	0.23145948	0.40998
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e2-RCP6	2035-2065	-	-	-	-	e2-RCP6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	ı	ı	ı		2005-2035	0.19359087	0.19423927	0.19445552	0.19353332
e2-RCP8.5	2035-2065	-	-	-	-	e2-RCP8.5	2035-2065	0.10224705	0.09739746	0.10053186	0.09314815
	2069-2099	-	ı	ı	ı		2069-2099	0.27657187	0.25154229	0.24806746	0.23446305
		NOCO:	-FIRR					NOCO ₂ -	-NOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	1	-		2005-2035	-	-	-	1
e2-RCP2.6	2035-2065	-	1	ı	ı	e2-RCP2.6	2035-2065	-	-	-	1
	2069-2099	-	-	1	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e2-RCP4.5	2035-2065	-	-	-	-	e2-RCP4.5	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	1	ı	ı		2005-2035	-	-	-	1
e2-RCP6	2035-2065	-	-	-	-	e2-RCP6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.23900547	0.2389465	0.23932568	0.2386474		2005-2035	0.18309444	0.18272379	0.18323406	0.18267787
e2-RCP8.5	2035-2065	0.22246875	0.21588764	0.22133739	0.20975023	e2-RCP8.5	2035-2065	0.14235441	0.14291388	0.14427741	0.14759022
	2069-2099	0.53242159	0.51593228	0.51407273	0.50201839		2069-2099	0.33011782	0.33257006	0.33583042	0.35115988

Tabla A76. Resultado de la validación cruzada por horizonte especificación e2, valores del RMSE para el cultivo de caña

		CO ₂ -I	FIRR					CO ₂ -N	OIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e2-RCP2.6	2035-2065	-	-	-	-	e2-RCP2.6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	1.3822653	1.37102556	1.39452606	1.35730747		2005-2035	1.21167441	1.23096965	1.23457225	1.20161247
e2-RCP4.5	2035-2065	0.76711204	1.2657691	0.99991078	2.87066808	e2-RCP4.5	2035-2065	0.67265516	0.9244387	0.73499896	2.25299168
	2069-2099	2.18545762	2.73190055	3.73355935	8.34093848		2069-2099	2.02850975	2.10600158	2.90518325	6.68261856
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e2-RCP6	2035-2065	-	1	-	-	e2-RCP6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	2.11556136	2.13695485	2.14068129	2.07703703		2005-2035	1.87808076	1.91468441	1.9056193	1.85558792
e2-RCP8.5	2035-2065	1.6924895	1.13592777	1.34384966	1.10796605	e2-RCP8.5	2035-2065	1.56698714	1.03116976	1.23668521	0.84036931
	2069-2099	4.41317972	2.98621217	2.86389549	4.49887772		2069-2099	4.02326694	2.63199685	2.41078681	3.45570005
		NOCO	2-FIRR					NOCO ₂ -	NOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e2-RCP2.6	2035-2065	-	-	-	-	e2-RCP2.6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e2-RCP4.5	2035-2065	-	-	-	-	e2-RCP4.5	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e2-RCP6	2035-2065	-	-	-	-	e2-RCP6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	2.10763012	2.12506733	2.12343939	2.07981395		2005-2035	1.91556344	1.94613951	1.93539387	1.89962425
e2-RCP8.5	2035-2065	2.23910749	1.61951867	1.86567337	0.87357771	e2-RCP8.5	2035-2065	1.9214459	1.37930991	1.59178476	0.73774887
	2069-2099	4.86204761	3.15954627	2.73772119	2.76375278		2069-2099	4.33587579	2.86237386	2.4845132	2.33589599

Tabla A77. Resultado de la validación cruzada por horizonte especificación e2, valores del RMSE para el cultivo de cebada

		CO ₂ -I	FIRR					CO ₂ -N	OIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e2-RCP2.6	2035-2065	-	-	-	-	e2-RCP2.6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.34509755	0.335627	0.34925395	0.34013955		2005-2035	0.28270348	0.27695949	0.28888107	0.28211952
e2-RCP4.5	2035-2065	0.29318921	0.49685024	0.39456902	0.83414569	e2-RCP4.5	2035-2065	0.2672048	0.43479783	0.34877228	0.70934193
	2069-2099	0.40513696	0.88873421	1.0997774	2.07713436		2069-2099	0.35897821	0.81071996	0.98345624	1.78656346
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e2-RCP6	2035-2065	-	-	-	-	e2-RCP6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.55838272	0.56096382	0.56543924	0.55371332		2005-2035	-	-	-	-
e2-RCP8.5	2035-2065	0.27490756	0.32784853	0.29196455	0.47141586	e2-RCP8.5	2035-2065	-	-	-	-
	2069-2099	0.80299918	0.71003626	0.74927076	1.1525293		2069-2099	-	-	-	-
		NOCO:	-FIRR					NOCO ₂ -	-NOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	=	-	-	-
e2-RCP2.6	2035-2065	-	-	-	-	e2-RCP2.6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	=	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	ı	1	-		2005-2035	=	-	-	-
e2-RCP4.5	2035-2065	-	ı	1	-	e2-RCP4.5	2035-2065	=	-	-	-
	2069-2099	-	ı	1	-		2069-2099	=	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	ı	-	-		2005-2035	=	-	-	-
e2-RCP6	2035-2065	-	ı	1	-	e2-RCP6	2035-2065	=	-	-	-
	2069-2099	-	ı	1	-		2069-2099	=	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.46119998	0.46219655	0.46229912	0.45927677		2005-2035	0.36396601	0.36579097	0.36574039	0.36429526
e2-RCP8.5	2035-2065	0.46958904	0.40393466	0.43808271	0.31316403	e2-RCP8.5	2035-2065	0.32335798	0.28973084	0.30822709	0.24444464
	2069-2099	1.21888692	1.02549256	0.97493567	0.75600875		2069-2099	0.78137589	0.68370207	0.66033943	0.55437538

Tabla A78. Resultado de la validación cruzada por horizonte especificación e2, valores del RMSE para el cultivo de maíz

		CO ₂ -J	FIRR					CO ₂ -N	OIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.23282474	0.25529152	0.2495401	0.25761638		2005-2035	0.24491999	0.27065522	0.26141845	0.27203436
e2-RCP2.6	2035-2065	0.3300567	0.54571045	0.47169483	0.88416353	e2-RCP2.6	2035-2065	0.34446085	0.5395032	0.46684674	0.84313236
	2069-2099	0.33976973	1.02548302	1.27640805	2.34790267		2069-2099	0.36565665	0.98205011	1.20118258	2.1584274
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.52993759	0.50654154	0.52485621	0.53563243		2005-2035	0.41987189	0.40789193	0.42027704	0.42886296
e2-RCP4.5	2035-2065	0.37891548	0.59721397	0.49972704	1.0275765	e2-RCP4.5	2035-2065	0.33744832	0.49485825	0.42950742	0.82072562
	2069-2099	0.56689704	1.04177029	1.32134008	2.59293859		2069-2099	0.47334974	0.83090648	1.04027565	2.00787286
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	1	1	-		2005-2035	0.43300441	0.43667875	0.43228246	0.44394706
e2-RCP6	2035-2065	-	1	1	-	e2-RCP6	2035-2065	0.35590835	0.47488888	0.39346523	0.69873523
	2069-2099	-	-	-	-		2069-2099	0.60215851	0.66737027	0.77817907	1.46324456
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.7510354	0.74142741	0.75557337	0.7511335		2005-2035	0.60114999	0.60463242	0.61254501	0.60734371
e2-RCP8.5	2035-2065	0.43523137	0.51794095	0.46044794	0.82633506	e2-RCP8.5	2035-2065	0.39310288	0.465881	0.4251725	0.710642
	2069-2099	1.5690558	0.92318416	0.87701029	1.58983546		2069-2099	1.21551109	0.79558158	0.79349558	1.44248998
		NOCO	2-FIRR					NOCO ₂ -	-NOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	0.24480827	0.26943737	0.26087682	0.2706576
e2-RCP2.6	2035-2065	-	-	-	-	e2-RCP2.6	2035-2065	0.25394676	0.43202048	0.366951	0.72512416
	2069-2099	-	-	-	-		2069-2099	0.29973632	0.88547904	1.09940199	2.02976438
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.5656571	0.54517529	0.56137869	0.5705665		2005-2035	0.4361639	0.42840315	0.43812052	0.44491205
e2-RCP4.5	2035-2065	0.26650939	0.30663937	0.28248673	0.67835053	e2-RCP4.5	2035-2065	0.24579702	0.27969751	0.26689676	0.55826931
	2069-2099	0.72941599	0.60742762	0.82813284	1.94138878		2069-2099	0.5577059	0.5178667	0.68714624	1.54251004
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.57174351	0.56645877	0.56755566	0.57635487		2005-2035	0.45534384	0.45948302	0.45538927	0.46425647
e2-RCP6	2035-2065	0.28411567	0.27293401	0.2225637	0.45871036	e2-RCP6	2035-2065	0.26544064	0.27606292	0.23516727	0.41147135
	2069-2099	1.09417263	0.67925672	0.63683129	1.04490255		2069-2099	0.82140764	0.53788726	0.51819823	0.87046818
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.78271969	0.77339091	0.78475825	0.78368642		2005-2035	0.63419019	0.63849587	0.64274228	0.64029881
e2-RCP8.5	2035-2065	0.57824731	0.41160273	0.48628546	0.40553818	e2-RCP8.5	2035-2065	0.48088934	0.36081088	0.41796498	0.34087907
	2069-2099	2.00176249	1.25350969	1.06720954	0.90256537		2069-2099	1.56931844	1.02867428	0.89453911	0.76883719

Tabla A79. Resultado de la validación cruzada por horizonte especificación e2, valores del RMSE para el cultivo de mijo

		CO ₂ -	FIRR					CO	-NOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e2-RCP2.6	2035-2065	-	-	-	-	e2-RCP2.6	2035-2065	-	_	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.8076088	0.8076088	0.8076088	0.8076088		2005-2035	0.125524502	0.123546913	0.123882987	0.125988946
e2-RCP4.5	2035-2065	0.8076088	0.8076088	0.8076088	0.8076088	e2-RCP4.5	2035-2065	0.10749212	0.146167265	0.129446503	0.233636744
	2069-2099	0.8076088	0.8076088	0.8076088	0.8076088		2069-2099	0.176349931	0.273924787	0.329055176	0.591840068
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e2-RCP6	2035-2065	-	-	-	-	e2-RCP6	2035-2065	-	-	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.21088727	0.21011367	0.21023234	0.21000404		2005-2035	0.213665477	0.212607827	0.212806814	0.213249538
e2-RCP8.5	2035-2065	0.16663003	0.18169838	0.16889154	0.2443547	e2-RCP8.5	2035-2065	0.164957282	0.130678296	0.14104559	0.130436936
	2069-2099	0.33720956	0.28558315	0.30618085	0.53547775		2069-2099	0.400053527	0.256988379	0.229963422	0.312716232
		NOCO	₂ -FIRR					NOC	O ₂ -NOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e2-RCP2.6	2035-2065	-	-	1	-	e2-RCP2.6	2035-2065	-	1	-	-
	2069-2099	-	-	-	-		2069-2099	-	-	-	-
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	1	-		2005-2035	-	•	-	=
e2-RCP4.5	2035-2065	-	-	1	-	e2-RCP4.5	2035-2065	-	•	-	=
	2069-2099	-	-	1	-		2069-2099	-	•	-	=
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	-	-	-	-
e2-RCP6	2035-2065	-	-	-	-	e2-RCP6	2035-2065	-	-	-	-
	2069-2099	-	-	1	-		2069-2099	-	•	-	=
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	0.16273776	0.16356085	0.16319262	0.16289997
e2-RCP8.5	2035-2065	-	-	-	-	e2-RCP8.5	2035-2065	0.11935918	0.09664746	0.10437672	0.09673994
	2069-2099	-	-	-	-		2069-2099	0.30453068	0.20305469	0.18293478	0.21962199

Tabla A80. Resultado de la validación cruzada por horizonte especificación e2, valores del RMSE para el cultivo de sorgo

		CO ₂ -J	FIRR			CO ₂ -NOIRR						
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5	
	2005-2035	-	-	-	-		2005-2035	-	-	-	-	
e2-RCP2.6	2035-2065	-	-	-	-	e2-RCP2.6	2035-2065	-	-	-	-	
	2069-2099	-	-	-	-		2069-2099	-	-	-	-	
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5	
	2005-2035	0.42501947	0.41094803	0.41495201	0.42481494		2005-2035	0.31487447	0.3085588	0.31072338	0.31625529	
e2-RCP4.5	2035-2065	0.25647033	0.33760597	0.29234277	0.6609935	e2-RCP4.5	2035-2065	0.22332853	0.3042431	0.26567011	0.55965522	
	2069-2099	0.56248413	0.68265822	0.88266968	1.86937561		2069-2099	0.43396401	0.5911282	0.75248052	1.5242612	
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5	
	2005-2035	-	-	-	-		2005-2035	-	-	-	-	
e2-RCP6	2035-2065	-	-	-	-	e2-RCP6	2035-2065	-	-	-	-	
	2069-2099	-	-	-	-		2069-2099	-	-	-	-	
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5	
	2005-2035	0.52917735	0.52478821	0.52617999	0.52715078		2005-2035	-	-	-	-	
e2-RCP8.5	2035-2065	0.44018916	0.34191542	0.37131785	0.34632684	e2-RCP8.5	2035-2065	-	-	-	-	
	2069-2099	1.366075	0.85901902	0.71925548	0.61340931		2069-2099	-	-	-	-	
		NOCO ₂	₂ -FIRR					NOCO ₂	-NOIRR			
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5	
	2005-2035	-	-	-	-		2005-2035	-	-	-	-	
e2-RCP2.6	2035-2065	-	-	-	1	e2-RCP2.6	2035-2065	-	-	-	-	
	2069-2099	-	-	-	-		2069-2099	-	-	-	-	
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5	
	2005-2035	-	-	-	-		2005-2035	-	-	-	-	
e2-RCP4.5	2035-2065	-	-	-	-	e2-RCP4.5	2035-2065	-	-	-	-	
	2069-2099	-	-	-	-		2069-2099	-	-	-	-	
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5	
	2005-2035	-	-	-	-		2005-2035	-	-	-	-	
e2-RCP6	2035-2065	-	-	-	-	e2-RCP6	2035-2065	-	-	-	-	
	2069-2099	-	-	-	-		2069-2099	-	-	-	-	
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5	
	2005-2035	0.533529	0.5279255	0.53019368	0.53179698		2005-2035	0.41418481	0.41546089	0.41548443	0.4142904	
e2-RCP8.5	2035-2065	0.43757829	0.3375542	0.367314	0.34561105	e2-RCP8.5	2035-2065	0.33144296	0.26361094	0.28642304	0.26972148	
I	2069-2099	1.12899781	0.69336079	0.60461915	0.84625292		2069-2099	0.87865078	0.55835863	0.49177039	0.60556648	

Tabla A81. Resultado de la validación cruzada por horizonte especificación e2, valores del RMSE para el cultivo de soya

		CO ₂ -l	FIRR					CO ₂ -N	IOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.07946879	0.08488565	0.08424115	0.08556326		2005-2035	0.0847655	0.09341518	0.09087014	0.0939678
e2-RCP2.6	2035-2065	0.12916708	0.2022012	0.17867289	0.32287857	e2-RCP2.6	2035-2065	0.15275383	0.23377505	0.20545847	0.36038419
	2069-2099	0.12373755	0.36432194	0.4559012	0.84101008		2069-2099	0.15216126	0.40956997	0.50320612	0.90408442
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.18093638	0.17227182	0.17908447	0.17978545		2005-2035	0.15115888	0.14402886	0.14965233	0.15100414
e2-RCP4.5	2035-2065	0.19456067	0.26589032	0.23622421	0.40629837	e2-RCP4.5	2035-2065	0.1692251	0.23210007	0.20697123	0.35365411
	2069-2099	0.27607933	0.4688425	0.56333074	0.99367833		2069-2099	0.23463871	0.40547063	0.48562035	0.85263575
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	0.15623063	0.15457448	0.15436683	0.15696635
e2-RCP6	2035-2065	-	-	1	-	e2-RCP6	2035-2065	0.15489076	0.1876618	0.16942557	0.25779539
	2069-2099	-	-	-	-		2069-2099	0.26716685	0.32765679	0.36907975	0.58959132
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.26337404	0.25869723	0.26453315	0.2616669		2005-2035	0.21061171	0.20787186	0.21212111	0.20975515
e2-RCP8.5	2035-2065	0.21414345	0.25724589	0.23328605	0.35262738	e2-RCP8.5	2035-2065	0.1820663	0.22015723	0.20066136	0.30184627
	2069-2099	0.41735072	0.43115564	0.47454776	0.77036877		2069-2099	0.34362723	0.36502466	0.40392135	0.66422809
		NOCO	₂ -FIRR					NOCO ₂ -	-NOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	-	-	-	-		2005-2035	0.08293511	0.09084645	0.08901373	0.0914669
e2-RCP2.6	2035-2065	-	-	-	-	e2-RCP2.6	2035-2065	0.09784998	0.17289122	0.14746802	0.29409762
	2069-2099	-	-	-	-		2069-2099	0.11254413	0.35471101	0.44469991	0.82775623
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.2070368	0.19628438	0.20474006	0.20568813		2005-2035	0.1603676	0.15466736	0.15999338	0.16079411
e2-RCP4.5	2035-2065	0.11116992	0.16529059	0.13926232	0.32294945	e2-RCP4.5	2035-2065	0.095138	0.12843699	0.11434754	0.24830866
	2069-2099	0.2480535	0.30929338	0.41006989	0.88332208		2069-2099	0.20024814	0.24757228	0.32429246	0.68578936
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.20924425	0.20499492	0.20722901	0.2084975		2005-2035	0.16511706	0.16421205	0.16402241	0.16581339
e2-RCP6	2035-2065	0.09651802	0.10035927	0.07979484	0.18551054	e2-RCP6	2035-2065	0.09273733	0.09510995	0.08427791	0.1454646
	2069-2099	0.35362958	0.23447069	0.24392695	0.46723281		2069-2099	0.2766542	0.18666175	0.18706771	0.32720323
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.28828506	0.28299153	0.28881857	0.28649753		2005-2035	0.22947552	0.22855175	0.23115589	0.22920537
e2-RCP8.5	2035-2065	0.18676562	0.14863018	0.15991058	0.18224163	e2-RCP8.5	2035-2065	0.16386753	0.12810715	0.14272062	0.12900966
	2069-2099	0.61250704	0.38140474	0.33460685	0.41318348		2069-2099	0.5049738	0.33061609	0.29044811	0.28577894

Tabla A82. Resultado de la validación cruzada por horizonte especificación e2, valores del RMSE para el cultivo de trigo

		CO ₂ -J	FIRR					CO ₂ -N	IOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.15373131	0.1575611	0.1582998	0.15498855		2005-2035	0.15453028	0.1681918	0.17099026	0.16189217
e2-RCP2.6	2035-2065	0.10085627	0.14299117	0.12623325	0.24269122	e2-RCP2.6	2035-2065	0.16889588	0.27573531	0.23084831	0.44164914
	2069-2099	0.11367577	0.29072253	0.36852984	0.70234808		2069-2099	0.19734531	0.54554596	0.66292965	1.18291343
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.33291928	0.31829629	0.33811644	0.31943547		2005-2035	0.25648896	0.25164524	0.26637584	0.25358078
e2-RCP4.5	2035-2065	0.30874431	0.54863472	0.4274169	0.93083279	e2-RCP4.5	2035-2065	0.23098264	0.40437881	0.31420143	0.68664229
	2069-2099	0.40478979	0.99518536	1.23748322	2.34398392		2069-2099	0.32999019	0.77943893	0.95683378	1.77389817
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.3463032	0.34530061	0.34843332	0.33858215		2005-2035	0.28149555	0.28811166	0.28737022	0.28192243
e2-RCP6	2035-2065	0.27256385	0.44332302	0.33937406	0.71254266	e2-RCP6	2035-2065	0.25688469	0.39122515	0.30695371	0.60214052
	2069-2099	0.49418236	0.76516967	0.91730063	1.68877084		2069-2099	0.39959105	0.66874655	0.7886123	1.4013597
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.53196791	0.5340729	0.54539022	0.51797681		2005-2035	0.40970504	0.41772517	0.4244937	0.40607398
e2-RCP8.5	2035-2065	0.23923703	0.34623444	0.2826048	0.58241437	e2-RCP8.5	2035-2065	0.21438323	0.28991943	0.24435889	0.45872434
	2069-2099	0.74805826	0.7521575	0.86555223	1.54633408		2069-2099	0.57071945	0.68694186	0.78111306	1.30906551
		NOCO ₂	₂ -FIRR					NOCO ₂ -	-NOIRR		
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.15321148	0.15554744	0.1558268	0.15356524		2005-2035	0.14937751	0.16223645	0.16488557	0.15616914
e2-RCP2.6	2035-2065	0.13438922	0.10889756	0.11774056	0.12476294	e2-RCP2.6	2035-2065	0.1203435	0.19845369	0.16325399	0.33730942
	2069-2099	0.1257721	0.16250362	0.21305249	0.45012585		2069-2099	0.15618364	0.44742958	0.54616046	0.992513
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.3257637	0.31017699	0.32619283	0.31004121		2005-2035	0.24626788	0.24312822	0.25445548	0.2436648
e2-RCP4.5	2035-2065	0.1741545	0.34741458	0.24912497	0.69597423	e2-RCP4.5	2035-2065	0.13474807	0.23604417	0.17310678	0.47457428
	2069-2099	0.40509488	0.66453593	0.88139789	1.8895651		2069-2099	0.29606633	0.51045378	0.65736854	1.34614352
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.33109767	0.32742764	0.32859089	0.32014723		2005-2035	0.26281814	0.26908649	0.26709575	0.26320263
e2-RCP6	2035-2065	0.15614748	0.27595723	0.17159198	0.53484561	e2-RCP6	2035-2065	0.14501028	0.22939939	0.15737205	0.39294503
	2069-2099	0.55116132	0.48025673	0.59948428	1.3301222		2069-2099	0.38226202	0.36197715	0.43585217	0.89524461
	Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5		Horizonte	RCP2.6	RCP4.5	RCP6	RCP8.5
	2005-2035	0.48978843	0.49102104	0.49870066	0.47685565		2005-2035	0.37578144	0.37896556	0.36832496	0.37578144
e2-RCP8.5	2035-2065	0.2897791	0.1911307	0.23996822	0.26780542	e2-RCP8.5	2035-2065	0.16826416	0.20745142	0.15424759	0.16826416
1	2069-2099	0.93066665	0.57308355	0.55924319	0.9020998		2069-2099	0.43427025	0.42499399	0.55685871	0.43427025