

Supplementary Materials

Table S1. Matrix of changes in fuel types (in hectares) in the study region between 2000 and 2018

	F-FOL	F-PIN	F-RAC	M-CAD	M-ESC	M-EUC	M-PIN	V-MAa	V-MMb	V-MH	V-Ha	V-Hb	NF	TOTAL	Losses
F-FOL	14193.1	0.0	7.7	7.5	0.0	168.4	45.4	22.2	9.6	0.0	0.0	125.3	141.5	14720.7	527.6
F-PIN	0.0	18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.8	0.0
F-RAC	4.3	0.0	1211.9	0.0	0.0	77.5	155.6	208.4	0.0	0.0	0.0	1.5	0.0	1659.3	447.4
M-CAD	81.0	0.0	3.2	13347.2	0.0	66.4	42.5	15.5	3.2	0.0	0.0	25.2	32.7	13616.8	269.6
M-ESC	0.0	0.0	0.0	0.0	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	1.6
M-EUC	63.9	0.0	0.6	7.3	0.0	16619.0	17.7	48.7	0.4	0.0	0.0	49.6	297.8	17104.9	485.9
M-PIN	1100.0	0.0	36.9	62.1	0.0	7644.7	31079.2	1374.6	30.8	2.2	0.0	450.3	1156.3	42937.1	11857.9
V-MAa	1039.0	0.0	100.6	293.3	0.0	1833.2	2524.2	56328.9	15.9	40.8	0.0	209.2	536.8	62922.0	6593.1
V-MMb	287.9	0.0	1.6	172.6	0.0	18.8	23.6	48.8	4215.6	0.0	0.0	115.4	200.7	5085.1	869.4
V-MH	0.4	0.0	0.0	0.0	0.0	0.3	12.8	0.0	0.0	5228.6	0.0	0.0	30.9	5272.9	44.3
V-Ha	36.0	0.0	0.6	39.1	0.0	6.9	1.7	41.3	20.4	0.0	11.1	609.7	27.2	794.0	783.0
V-Hb	963.9	2.3	1.3	224.6	0.0	190.4	97.1	403.1	309.1	0.0	0.0	35444.1	1467.6	39103.5	3659.4
NF	87.5	0.0	0.0	0.0	0.0	9.2	12.8	36.4	1.1	0.0	0.0	8.8	18437.1	18592.9	155.8
TOTAL	17857.0	21.1	1364.4	14153.9	1.6	26636.3	34012.5	58528.1	4606.2	5271.5	11.1	37039.1	22328.6		
Gains	3663.9	2.3	152.5	806.7	0.0	10017.3	2933.3	2199.1	390.6	42.9	0.0	1595.0	3891.5		
Balance	3136.3	2.3	-294.9	537.1	-1.6	9531.3	-8924.6	-4394.0	-478.9	-1.3	-783.0	-2064.4	3735.7		

Table S2. Matrix of changes in fuel types (in hectares) between 2000 and 2018 in the burned area

	F-FOL	F-PIN	F-RAC	M-CAD	M-ESC	M-EUC	M-PIN	V-MAa	V-MMb	V-MH	V-Ha	V-Hb	NF	TOTAL	Losses
F-FOL	4004.8	0.0	4.0	5.2	0.0	83.3	24.0	9.5	1.1	0.0	0.0	9.4	2.5	4143.7	138.9
F-PIN	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0
F-RAC	2.5	0.0	615.0	0.0	0.0	69.7	2.2	207.0	0.0	0.0	0.0	0.2	0.0	896.6	281.6
M-CAD	22.5	0.0	0.1	5040.8	0.0	39.1	26.3	10.5	1.3	0.0	0.0	1.6	1.1	5143.3	102.5
M-ESC	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0
M-EUC	27.2	0.0	0.0	7.0	0.0	11619.9	12.2	40.4	0.1	0.0	0.0	18.2	78.3	11803.3	183.3
M-PIN	440.5	0.0	8.9	57.7	0.0	4462.7	13655.7	1285.9	2.8	2.2	0.0	150.6	151.9	20218.9	6563.2
V-MAa	712.0	0.0	65.2	154.7	0.0	1522.1	1539.9	49206.9	2.6	33.6	0.0	112.1	126.6	53475.8	4268.9
V-MMb	39.6	0.0	0.5	11.6	0.0	1.6	15.6	18.8	251.9	0.0	0.0	5.9	1.6	347.1	345.5
V-MH	0.2	0.0	0.0	0.0	0.0	0.3	1.6	0.0	0.0	3514.4	0.0	0.0	9.7	3526.1	11.7
V-Ha	0.3	0.0	0.2	3.2	0.0	3.9	0.0	7.3	0.1	0.0	0.0	73.7	0.1	88.8	88.7
V-Hb	44.9	0.0	0.0	32.0	0.0	35.3	6.1	40.9	23.2	0.0	0.0	1068.8	12.7	1263.8	195.0
NF	9.3	0.0	0.0	0.0	0.0	0.7	1.3	2.0	0.0	0.0	0.0	0.0	359.6	372.9	370.9
TOTAL	5303.8	3.4	694.0	5312.1	1.6	17838.5	15284.7	50829.2	283.1	3550.2	0.0	1440.5	744.1		
Gains	1299.0	0.0	79.0	271.4	0.0	6218.6	1629.1	1622.3	31.2	35.8	0.0	371.7	384.5		
Balance	1160.1	0.0	-202.6	168.9	0.0	6035.2	-4934.2	-2646.6	-314.3	24.1	-88.7	176.7	13.6		

Table S3. Matrix of changes in fuel types (in hectares) between 2000 and 2018 in the burned area by fire-season fires

	F-FOL	F-PIN	F-RAC	M-CAD	M-ESC	M-EUC	M-PIN	V-MAa	V-MMb	V-MH	V-Ha	V-Hb	NF	TOTAL	Losses
F-FOL	3293.5	0.0	3.4	5.1	0.0	74.2	21.3	9.5	1.1	0.0	0.0	8.5	1.7	3418.2	124.7
F-PIN	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0
F-RAC	2.5	0.0	459.7	0.0	0.0	69.0	1.3	202.6	0.0	0.0	0.0	0.2	0.0	735.2	275.5
M-CAD	14.1	0.0	0.0	3584.6	0.0	36.2	25.6	6.9	0.0	0.0	0.0	0.8	1.1	3669.5	84.9
M-ESC	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0
M-EUC	23.6	0.0	0.0	7.0	0.0	10821.3	10.4	40.3	0.1	0.0	0.0	17.4	74.7	10994.8	173.4
M-PIN	376.6	0.0	8.9	53.3	0.0	4066.1	10739.5	1235.2	2.7	2.2	0.0	106.4	139.4	16730.4	5990.9
V-MAa	571.8	0.0	44.3	82.6	0.0	1412.2	915.0	37369.7	1.4	27.8	0.0	97.9	106.6	40629.3	3259.6
V-MMb	28.6	0.0	0.5	8.5	0.0	1.4	13.8	10.9	194.6	0.0	0.0	3.8	1.6	263.6	69.0
V-MH	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	1743.6	0.0	0.0	3.8	1747.6	4.0
V-Ha	0.3	0.0	0.2	2.5	0.0	3.8	0.0	7.1	0.1	0.0	0.0	46.7	0.1	60.7	60.7
V-Hb	31.6	0.0	0.0	23.1	0.0	33.2	3.9	22.1	13.8	0.0	0.0	562.1	11.1	700.9	138.9
NF	9.3	0.0	0.0	0.0	0.0	0.7	1.3	1.8	0.0	0.0	0.0	0.0	301.6	314.6	13.1
TOTAL	4352.0	3.4	517.1	3766.7	1.6	16518.3	11732.1	38906.0	213.9	1773.6	0.0	843.8	641.6		
Gains	1058.4	0.0	57.4	182.1	0.0	5697.0	992.5	1536.3	19.2	30.0	0.0	281.7	340.0		
Balance	933.8	0.0	-218.1	97.2	0.0	5523.5	-4998.4	-1723.3	-49.8	26.0	-60.7	142.8	327.0		

Table S4. Matrix of changes in fuel types (in hectares) between 2000 and 2018 in the burned area by unseasonal fires

	F-FOL	F-PIN	F-RAC	M-CAD	M-ESC	M-EUC	M-PIN	V-MAa	V-MMb	V-MH	V-Ha	V-Hb	NF	TOTAL	Losses
F-FOL	1491.0	0.0	2.0	2.5	0.0	23.0	6.7	1.4	0.0	0.0	0.0	1.0	0.9	1528.5	37.6
F-PIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F-RAC	0.0	0.0	236.0	0.0	0.0	4.9	1.9	96.5	0.0	0.0	0.0	0.0	0.0	339.3	103.3
M-CAD	11.0	0.0	0.1	2135.2	0.0	11.2	1.3	6.1	1.3	0.0	0.0	0.9	0.0	2167.1	31.9
M-ESC	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0
M-EUC	6.7	0.0	0.0	0.0	0.0	3435.3	4.7	11.9	0.0	0.0	0.0	7.8	6.7	3473.1	37.8
M-PIN	162.5	0.0	2.6	55.8	0.0	1118.8	5394.2	583.1	0.1	0.0	0.0	48.7	17.2	7383.1	1988.9
V-MAa	238.2	0.0	50.7	87.5	0.0	497.2	861.3	31774.6	1.3	18.0	0.0	43.5	35.3	33607.5	1832.9
V-MMb	12.9	0.0	0.0	4.2	0.0	0.2	14.5	11.1	80.2	0.0	0.0	2.1	0.0	125.4	45.2
V-MH	0.2	0.0	0.0	0.0	0.0	0.2	1.6	0.0	0.0	2161.2	0.0	0.0	7.6	2170.7	9.5
V-Ha	0.0	0.0	0.0	0.7	0.0	1.5	0.0	2.5	0.0	0.0	0.0	38.4	0.0	43.1	43.1
V-Hb	15.2	0.0	0.0	11.9	0.0	3.1	2.4	18.9	10.4	0.0	0.0	557.9	1.7	621.5	63.6
NF	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	110.5	110.8	0.3
TOTAL	1937.7	0.0	291.4	2297.8	1.2	5095.5	6288.8	32506.4	93.2	2179.2	0.0	700.3	180.0		
Gains	446.8	0.0	55.4	162.6	0.0	1660.2	894.5	731.8	13.0	18.0	0.0	142.4	69.4		
Balance	409.2	0.0	-47.9	130.7	0.0	1622.3	-1094.4	-1101.2	-32.2	8.5	-43.1	78.8	69.2		

Table S5. Matrix of changes in fuel types (in hectares) between 2000 and 2018 in the burned area resulting from the spatial intersection between seasonal and unseasonal fires

	F-FOL	F-PIN	F-RAC	M-CAD	M-ESC	M-EUC	M-PIN	V-MAa	V-MMb	V-MH	V-Ha	V-Hb	NF	TOTAL	Losses
F-FOL	779.7	0.0	1.4	2.4	0.0	13.9	4.0	1.4	0.0	0.0	0.0	0.2	0.1	803.1	23.4
F-PIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F-RAC	0.0	0.0	80.6	0.0	0.0	4.2	1.0	92.0	0.0	0.0	0.0	0.0	0.0	177.9	97.2
M-CAD	2.6	0.0	0.0	679.0	0.0	8.4	0.6	2.5	0.0	0.0	0.0	0.2	0.0	693.3	14.3
M-ESC	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0
M-EUC	3.1	0.0	0.0	0.0	0.0	2636.7	2.9	11.8	0.0	0.0	0.0	7.0	3.1	2664.6	27.9
M-PIN	98.7	0.0	2.6	51.4	0.0	722.2	2478.1	532.5	0.0	0.0	0.0	4.5	4.7	3894.7	1416.6
V-MAa	98.0	0.0	29.8	15.4	0.0	387.3	236.5	19937.3	0.0	12.2	0.0	29.2	15.2	20761.0	823.7
V-MMb	1.9	0.0	0.0	1.1	0.0	0.0	12.7	3.2	23.0	0.0	0.0	0.0	0.0	41.9	18.9
V-MH	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	390.4	0.0	0.0	1.7	392.2	1.9
V-Ha	0.0	0.0	0.0	0.0	0.0	1.4	0.0	2.2	0.0	0.0	0.0	11.3	0.0	15.0	15.0
V-Hb	1.9	0.0	0.0	3.0	0.0	1.0	0.3	0.1	1.0	0.0	0.0	51.2	0.1	58.6	7.4
NF	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5	52.5	0.1
TOTAL	985.9	0.0	114.5	752.3	1.2	3775.3	2736.1	20583.2	24.0	402.6	0.0	103.5	77.4		
Gains	206.2	0.0	33.8	73.3	0.0	1138.6	258.0	645.8	1.1	12.2	0.0	52.4	25.0		
Balance	182.8	0.0	-63.4	59.0	0.0	1110.6	-1158.6	-177.8	-17.9	10.3	-15.0	44.9	-27.5		

Table S6. Matrix of changes in fuel types (in hectares) between 2000 and 2018 in the burned area by fire-season fires only

	F-FOL	F-PIN	F-RAC	M-CAD	M-ESC	M-EUC	M-PIN	V-MAa	V-MMb	V-MH	V-Ha	V-Hb	NF	TOTAL	Losses
F-FOL	2513.8	0.0	2.0	2.7	0.0	60.3	17.3	8.1	1.1	0.0	0.0	8.3	1.6	2615.1	101.3
F-PIN	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0
F-RAC	2.5	0.0	379.0	0.0	0.0	64.8	0.3	110.6	0.0	0.0	0.0	0.2	0.0	557.4	178.3
M-CAD	11.6	0.0	0.0	2905.6	0.0	27.9	25.0	4.4	0.0	0.0	0.0	0.7	1.1	2976.2	70.6
M-ESC	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
M-EUC	20.5	0.0	0.0	7.0	0.0	8184.6	7.5	28.5	0.1	0.0	0.0	10.4	71.6	8330.1	145.5
M-PIN	277.9	0.0	6.3	1.9	0.0	3343.9	8261.4	702.7	2.7	2.2	0.0	101.9	134.7	12835.8	4574.3
V-MAa	473.8	0.0	14.6	67.2	0.0	1024.9	678.5	17432.3	1.4	15.6	0.0	68.7	91.3	19868.3	2435.9
V-MMb	26.7	0.0	0.5	7.4	0.0	1.4	1.1	7.7	171.7	0.0	0.0	3.7	1.6	221.7	50.1
V-MH	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1353.2	0.0	0.0	2.1	1355.4	2.2
V-Ha	0.3	0.0	0.2	2.5	0.0	2.4	0.0	4.8	0.1	0.0	0.0	35.4	0.1	45.8	45.8
V-Hb	29.7	0.0	0.0	20.2	0.0	32.2	3.6	21.9	12.8	0.0	0.0	510.9	11.0	642.4	131.5
NF	9.3	0.0	0.0	0.0	0.0	0.7	1.3	1.8	0.0	0.0	0.0	0.0	249.1	262.1	13.0
TOTAL	3366.0	3.4	402.6	3014.4	0.4	12743.0	8996.0	18322.8	189.8	1371.0	0.0	740.3	564.2		
Gains	852.2	0.0	23.6	108.8	0.0	4558.4	734.5	890.5	18.2	17.8	0.0	229.3	315.1		
Balance	750.9	0.0	-154.7	38.2	0.0	4412.9	-3839.8	-1545.4	-31.9	15.6	-45.8	97.9	302.0		

Table S7. Matrix of changes in fuel types (in hectares) between 2000 and 2018 in the burned area by unseasonal fires only

	F-FOL	F-PIN	F-RAC	M-CAD	M-ESC	M-EUC	M-PIN	V-MAa	V-MMb	V-MH	V-Ha	V-Hb	NF	TOTAL	Losses
F-FOL	711.2	0.0	0.6	0.1	0.0	9.2	2.8	0.0	0.0	0.0	0.0	0.9	0.8	725.5	<i>14.2</i>
F-PIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<i>0.0</i>
F-RAC	0.0	0.0	155.3	0.0	0.0	0.7	1.0	4.5	0.0	0.0	0.0	0.0	0.0	161.4	<i>6.1</i>
M-CAD	8.4	0.0	0.1	1456.2	0.0	2.8	0.7	3.6	1.3	0.0	0.0	0.7	0.0	1473.8	<i>17.6</i>
M-ESC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<i>0.0</i>
M-EUC	3.6	0.0	0.0	0.0	0.0	798.6	1.7	0.1	0.0	0.0	0.0	0.8	3.6	808.5	<i>9.9</i>
M-PIN	63.9	0.0	0.0	4.5	0.0	396.6	2916.1	50.6	0.0	0.0	0.0	44.2	12.5	3488.4	<i>572.3</i>
V-MAa	140.2	0.0	20.9	72.0	0.0	109.9	624.8	11837.3	1.3	5.8	0.0	14.2	20.1	12846.5	<i>1009.3</i>
V-MMb	11.0	0.0	0.0	3.1	0.0	0.2	1.8	7.9	57.2	0.0	0.0	2.1	0.0	83.5	<i>26.2</i>
V-MH	0.2	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	1770.8	0.0	0.0	5.9	1778.5	<i>7.6</i>
V-Ha	0.0	0.0	0.0	0.7	0.0	0.1	0.0	0.3	0.0	0.0	0.0	27.0	0.0	28.1	<i>28.1</i>
V-Hb	13.3	0.0	0.0	8.9	0.0	2.1	2.1	18.8	9.4	0.0	0.0	506.7	1.6	562.9	<i>56.2</i>
NF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	58.1	58.3	<i>0.2</i>
TOTAL	951.8	0.0	176.9	1545.5	0.0	1320.2	3552.7	11923.2	69.2	1776.6	0.0	596.7	102.5		
Gains	<i>240.6</i>	<i>0.0</i>	<i>21.6</i>	<i>89.3</i>	<i>0.0</i>	<i>521.6</i>	<i>636.5</i>	<i>85.9</i>	<i>11.9</i>	<i>5.8</i>	<i>0.0</i>	<i>90.0</i>	<i>44.5</i>		
Balance	226.3	0.0	15.5	71.7	0.0	511.7	64.2	-923.3	-14.3	-1.8	-28.1	33.8	44.3		