

1 Appendix: Results of Resource Selection for Machine Learning

Weather Station	Horizon	PC	FI
Sete Lagoas	1	['Tmean', 'Tmax'], [[1, 2, 3, 4], [1]], ['Eto'], [1, 2, 3, 4, 5]]	['Tmax', 'I', 'Tmean', 'UR', 'J'], [[1], [1], [2, 1], [1], [22, 26]], ['Eto'], [1, 2, 3]]
Sete Lagoas	3	['Tmean'], [[3, 4, 5, 6, 7, 8, 9]], ['Eto'], [3, 4, 5]]	['Tmean', 'J'], [[8, 5], [26, 6, 30, 29]], ['Eto'], [4, 3, 5, 6]]
Sete Lagoas	7	['Tmean', 'Tmin'], [[7, 8, 9, 10, 11, 12], [7]], ['Eto'], [7, 8, 9]]	['Tmean', 'J'], [[9, 7, 11], [27, 30, 23, 25, 19]], ['Eto'], [8, 11]]
Sete Lagoas	10	['Tmean', 'Tmin'], [[10, 11, 12, 13, 14], [10]], ['Eto'], [10, 11, 12, 13]]	['Tmean', 'J'], [[9, 7, 11], [27, 30, 23, 25, 19]], ['Eto'], [8, 11]]
Pampulha	1	['umi _{rel} ', 'umi _{max} ', 'radiation', 'umi _{min} ', 'temp _{max} '], [[1, 2], [1, 2], [1], [1], [1]], ['Eto'], [1, 2, 3]]	['radiation', 'umi _{rel} ', 'umi _{min} ', 'umi _{max} ', 'J', 'press _{atm} ', 'wind'], [[1], [1, 2], [1], [1], [27], [1], [1]], ['Eto'], [1, 2]]
Pampulha	3	['umi _{max} ', 'umi _{rel} ', 'radiation'], [[3, 4], [3, 4], [3]], ['Eto'], [3, 4, 5, 6, 7]]	['J', 'umi _{rel} ', 'press _{atm} '], [[22, 29, 26, 23, 21], [3, 4], [3]], ['Eto'], [3, 4]]
Pampulha	7	[[], [], ['Eto'], [7, 8, 9, 10, 11, 12, 15, 20, 21, 13]]	['J'], [[27, 19, 15, 29, 26, 20, 24, 28, 10, 22]], [], []]
Pampulha	10	[[], [], ['Eto'], [10, 11, 12, 15, 20, 21, 13, 14, 16, 22]]	['J'], [[30, 26, 25, 17, 10, 28, 19, 29, 11, 24]], [], []]
Brasília	1	['temp _{media} '], [[29, 28, 30]], ['Eto'], [1, 2, 3, 4, 5, 6, 7]]	['temp _{media} ', 'J', 'press _{atm} '], [[26, 29, 22], [5], [25]], ['Eto'], [1, 2, 3, 4, 28]]

Brasília	3	[[<i>'temp_{media}'</i>], [[29, 28, 30, 27]], [<i>'Eto'</i>], [3, 4, 5, 6, 7, 8]]	[[<i>'temp_{media}'</i> , <i>'press_{atm}'</i> , <i>'J'</i>], [[29, 30], [25, 28, 22, 24], [17]], [<i>'Eto'</i>], [3, 5, 4]]
Brasília	7	[[<i>'temp_{media}'</i>], [[29, 28, 30, 27, 26, 24, 25, 22]], [<i>'Eto'</i>], [7, 8]]	[[<i>'temp_{media}'</i> , <i>'press_{atm}'</i> , <i>'J'</i>], [[26, 28, 22, 21, 17, 18], [28, 29, 22], [7]], [], []]
Brasília	10	[[<i>'temp_{media}'</i>], [[29, 28, 30, 27, 26, 24, 25, 22, 23, 21]], [], []]	[[<i>'temp_{media}'</i> , <i>'press_{atm}'</i> , <i>'temp_{min}'</i> , <i>'J'</i>], [[28, 29, 30, 23], [30, 20], [30], [21, 13, 10]], [], []]
Manaus	1	[[<i>'umi_{rel}'</i> , <i>'umi_{min}'</i> , <i>'temp_{media}'</i> , <i>'temp_{max}'</i> , <i>'radiation'</i> , <i>'umi_{max}'</i> , <i>'temp_{min}'</i>], [[1, 2], [1], [1], [1], [1], [1]], [<i>'Eto'</i>], [1, 2]]	[[<i>'umi_{min}'</i> , <i>'umi_{rel}'</i> , <i>'temp_{max}'</i> , <i>'temp_{media}'</i> , <i>'radiation'</i> , <i>'wind'</i> , <i>'umi_{max}'</i>], [[1], [1, 16], [1], [2, 1], [1], [1], [1]], [<i>'Eto'</i>], [1]]
Manaus	3	[[<i>'umi_{rel}'</i>], [[3, 13, 9, 8, 4, 12, 14, 7, 10]], [<i>'Eto'</i>], [3]]	[[<i>'J'</i> , <i>'umi_{min}'</i>], [[4, 5, 19, 15, 6, 13, 7, 21], [4]], [<i>'Eto'</i>], [13]]
Manaus	7	[[<i>'umi_{rel}'</i>], [[13, 9, 8, 12, 14, 7, 10, 11]], [<i>'Eto'</i>], [13, 8]]	[[<i>'temp_{max}'</i> , <i>'J'</i> , <i>'umi_{rel}'</i> , <i>'umi_{min}'</i>], [[8], [13, 14, 16, 9, 27, 10], [9, 13], [16]], [], []]
Manaus	10	[[<i>'umi_{rel}'</i>], [[13, 12, 14, 10, 11, 15, 16, 17]], [<i>'Eto'</i>], [13, 14]]	[[<i>'J'</i> , <i>'umi_{min}'</i>], [[21, 14, 30, 12, 11, 23, 24, 16, 15], [13]], [], []]
Porto Alegre	1	[[<i>'radiation'</i> , <i>'temp_{max}'</i> , <i>'temp_{media}'</i>], [[1], [1], [1, 5, 2, 4, 3]], [<i>'Eto'</i>], [1, 2, 3]]	[[<i>'radiation'</i> , <i>'temp_{media}'</i> , <i>'temp_{min}'</i> , <i>'umi_{min}'</i> , <i>'umi_{rel}'</i> , <i>'temp_{max}'</i>], [[1, 3], [4, 13], [3], [1], [1], [1]], [<i>'Eto'</i>], [1, 2]]

Porto Alegre	3	[[<i>'temp_{media}'</i> , [[5, 4, 3, 6, 7, 12, 11]], [<i>'Eto'</i>], [3, 4, 5]]	[[<i>'temp_{media}'</i> , <i>'radiation'</i> , <i>'J'</i> , <i>'temp_{max}'</i>], [[7, 3, 13], [3, 6], [26, 12], [3]], [<i>'Eto'</i>], [3, 5]]
Porto Alegre	7	[[<i>'temp_{media}'</i> , <i>'temp_{max}'</i>], [[7, 12, 11, 8, 13, 10, 9], [7]], [<i>'Eto'</i>], [7, 13]]	[[<i>'J'</i> , <i>'temp_{media}'</i> , <i>'radiation'</i>], [[23, 14, 22, 19], [12, 7, 11, 16, 13], [13]], [], []]
Porto Alegre	10	[[<i>'temp_{media}'</i> , <i>'temp_{min}'</i>], [[12, 11, 13, 10, 14], [12, 11]], [<i>'Eto'</i>], [13, 12, 10]]	[[<i>'temp_{media}'</i> , <i>'J'</i>], [[11, 12, 16, 15], [30, 28, 24, 18, 14, 20]], [], []]
Maceió	1	[[<i>'umi_{rel}'</i> , <i>'radiation'</i> , <i>'wind'</i> , <i>'temp_{max}'</i> , <i>'temp_{media}'</i>], [[1], [1], [1], [1], [1]], [<i>'Eto'</i>], [1, 2, 3, 4, 5]]	[[<i>'radiation'</i> , <i>'umi_{min}'</i> , <i>'umi_{rel}'</i> , <i>'J'</i> , <i>'temp_{max}'</i>], [[1], [1], [1], [28], [1]], [<i>'Eto'</i>], [1, 2, 4, 5, 3]]
Maceió	3	[[[], [], [<i>'Eto'</i>], [3, 4, 5, 6, 7, 9, 10, 8, 11, 12]]	[[<i>'J'</i> , <i>'radiation'</i>], [[28, 25, 27, 19], [4]], [<i>'Eto'</i>], [3, 6, 11, 4, 8]]
Maceió	7	[[[], [], [<i>'Eto'</i>], [7, 9, 10, 8, 11, 12, 13, 14, 15, 21]]	[[<i>'J'</i>], [[27, 21, 19, 9]], [<i>'Eto'</i>], [13, 7, 11, 12, 8, 14]]
Maceió	10	[[[], [], [<i>'Eto'</i>], [10, 11, 12, 13, 14, 15, 21, 23, 19, 22]]	[[<i>'J'</i>], [[27, 24, 30, 26, 28, 29, 14]], [<i>'Eto'</i>], [11, 13, 15]]