

Supplementary material

Table S1. Indicators scores byDMPs.

Component	Criteria	Explanation	DMP										Scores				
			DOU	TAG	GUA	SEG	EBR	GDQ	JUC	MIN	Min Score	Max score	STDev	Mean score	%		
Component 1. Drought hazard characterization			3,06	2,19	2,81	3,12	2,96	2,11	3,18	2,44	2,11	3,18	0,43	2,73	68%		
1.1	Understand drought problem	Mean	3,33	3,00	3,00	3,00	3,00	3,00	3,00	3,33	3,00	3,33	0,15	3,08	77%		
1.1.1	Defines drought & drought typologies	1-4	2	2	2	2	2	2	2	2	2,00	2,00	0,00	2,00	50%		
1.1.2	Definition of prolonged droughts	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
1.1.3	Relation with other similar terms (water scarcity, aridity, desertification)	1-4	4	3	3	3	3	3	3	4	3,00	4,00	0,46	3,25	81%		
1.2	Identification & assessment of past drought episodes	Mean	3,92	3,00	3,58	3,92	3,83	2,33	3,83	3,42	2,33	3,92	0,56	3,48	87%		
1.2.1	Identification of key drought episodes	1-4	4	3	4	4	4	3	4	4	3,00	4,00	0,46	3,75	94%		
1.2.2	Number of episodes assessed	1-4	4	4	4	4	4	2	4	4	2,00	4,00	0,71	3,75	94%		
1.2.3	Level of detail of the assessment	Mean	3,75	2	2,75	3,75	3,5	2,00	3,5	2,25	2,00	3,75	0,78	2,94	73%		
	General description of the event	1-4	4	3	3	4	4	2	4	3	2,00	4,00	0,74	3,38	84%		
	Analysis of past impacts	1-4	4	2	3	4	3	2	4	2	2,00	4,00	0,93	3,00	75%		
	Analysis of past measures any/or measures	1-4	4	2	3	4	4	2	3	3	2,00	4,00	0,83	3,13	78%		
	Economic cost/ assessment	1-4	3	1	2	3	3	2	3	1	1,00	3,00	0,89	2,25	56%		
1.3.	Analysis of causes of drought, water deficits or unsatisfied demands	Mean	2,67	1,67	3,00	3,33	2,00	1,67	2,67	1,67	1,67	3,33	0,67	2,33	58%		
1.3.1	Identification of drought causes	1-4	4	2	3	4	2	2	4	1	1,00	4,00	1,16	2,75	69%		
1.3.2	References to climate change	1-4	2	2	2	2	2	2	2	2	2,00	2,00	0,00	2,00	50%		
1.3.3	Identification of cause-effect relationship	1-4	2	1	4	4	2	1	2	2	1,00	4,00	1,16	2,25	56%		
1.4	Analysis of Drought impacts	Mean	2,33	1,11	1,67	2,22	3,00	1,44	3,22	1,33	1,11	3,22	0,78	2,04	51%		
1.4.1	Identification of type of impacts (social, economical, environmental)	Mean	3	1,33	3,00	3,67	3,00	1,33	3,67	2,00	1,33	3,67	0,95	2,63	66%		
	social	1-4	3	1	3	4	3	1	3	2	1,00	4,00	1,07	2,50	63%		
	economic	1-4	3	1	3	4	3	1	4	1	1,00	4,00	1,31	2,50	63%		
	environmental	1-4	3	2	3	3	3	2	4	3	2,00	4,00	0,64	2,88	72%		
1.4.2	Identification of impacts by sectors	1-4	2	1	1	1	4	1	4	1	1,00	4,00	1,36	1,88	47%		
1.4.3	Quantification of drought impacts	1-4	2	1	1	2	2	2	2	1	1,00	2,00	0,52	1,63	41%		
Drought Vulnerability			3,65	3,46	3,44	3,44	3,65	3,50	3,65	3,50	3,44	3,65	0,10	3,53	88%		
2.1	Analysis of water resources	Mean	3,33	3,33	3,00	3,00	3,33	3,00	3,33	3,00	3,00	3,33	0,18	3,17	79%		
2.1.1	Assessment of available water resources	Mean	4,00	4,00	4,00	4,00	4,00	4,00	4,00	4,00	4,00	4,00	0,00	4,00	100%		
	Assessment of surface resources	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
	Assessment of groundwater resources	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
	Assessment of non-conventional resources (transfers, reuse, identification by areas or geographical references or systems)	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
2.1.2	Analysis of Water quality	1-4	3	3	2	2	3	2	3	2	2,00	3,00	0,53	2,50	63%		
2.1.3	Assessment of environmental elements related to water resources	1-4	3	3	3	3	3	3	3	3	3,00	3,00	0,00	3,00	75%		
2.2	Analysis of water demands and uses	Mean	4,00	4,00	4,00	4,00	4,00	4,00	4,00	4,00	4,00	4,00	0,00	4,00	100%		
2.2.1	Analysis of Urban supply	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
2.2.2	Analysis of Agricultural demand	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
2.2.3	Analysis of industry any/or	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
2.2.4	Analysis of other demands (tourism, recreation)	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
2.2.5	Analysis of Ecological demands / Flows	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
2.2.6	Identification by areas or geographical references or systems	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
2.3	Analysis of vulnerability factors	Mean	3,25	2,50	2,75	2,75	3,25	3,00	3,25	3,00	2,50	3,25	0,28	2,97	74%		
2.3.1	Hydraulic basins or other	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
2.3.2	Identification of vulnerable zones, natural resources	1-4	4	4	3	4	4	3	4	3	3,00	4,00	0,52	3,63	91%		
2.3.3	Identification of vulnerability factors	1-4	1	1	1	1	1	1	1	1	1,00	1,00	0,00	1,00	25%		
2.3.4	Identification of measures or actions to reduce vulnerability	1-4	4	1	3	2	4	4	4	4	1,00	4,00	1,16	3,25	81%		
2.4	Indicators and Drought Declaration	Mean	4,00	4,00	4,00	4,00	4,00	4,00	4,00	4,00	4,00	4,00	0,00	4,00	100%		
2.4.1	Identification of indicators	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
2.4.2	Indicators establishment & calculation	Mean	4,00	4,00	4,00	4,00	4,00	4,00	4,00	4,00	4,00	4,00	0,00	4,00	100%		
	Zonification	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
	Threshold calculation	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
2.4.3	Relationship among drought indicators	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
2.4.4	Process of drought phase declaration	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
Drought Measures and management			2,86	2,86	2,86	2,86	2,86	2,86	2,86	2,86	2,86	2,86	0,00	2,86	72%		
3.1	Analysis of drought measures	Mean	2,42	2,42	2,42	2,42	2,42	2,42	2,42	2,42	2,42	2,42	0,00	2,42	60%		
3.1.1	Drought measures identification	Mean	2,50	2,50	2,50	2,50	2,50	2,50	2,50	2,50	2,50	2,50	0,00	2,50	63%		
	Criteria for selection	1-4	1	1	1	1	1	1	1	1	1,00	1,00	0,00	1,00	25%		
	Analysis of alternatives	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
3.1.2	Analysis of effectiveness	1-4	1	1	1	1	1	1	1	1	1,00	1,00	0,00	1,00	25%		
3.1.3	Estimated cost	1-4	1	1	1	1	1	1	1	1	1,00	1,00	0,00	1,00	25%		
3.1.4	Relationship of measures and Phases	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
3.1.5	Mechanism of progress implementation	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
3.1.6	Relationship with other plans	Mean	2,00	2,00	2,00	2,00	2,00	2,00	2,00	2,00	2,00	2,00	0,00	2,00	50%		
	Relationship between DMP and EP	1-4	3	3	3	3	3	3	3	3	3,00	3,00	0,00	3,00	75%		
	Drought measures included in other plans or strategies (DMPs, National, Regional, etc.)	1-4	1	1	1	1	1	1	1	1	1,00	1,00	0,00	1,00	25%		
3.2	Drought management and coordination	Mean	3,20	3,20	3,20	3,20	3,20	3,20	3,20	3,20	3,20	3,20	0,00	3,20	80%		
3.2.1	Plan foundation and legal aspects	1-4	2	2	2	2	2	2	2	2	2,00	2,00	0,00	2,00	50%		
3.2.2	Establishment of responsibilities	Mean	3,67	3,67	3,67	3,67	3,67	3,67	3,67	3,67	3,67	3,67	0,00	3,67	92%		
	Establishment of responsibilities for the drought task force	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
	Establish clear responsibilities for the drought task force	1-4	3	3	3	3	3	3	3	3	3,00	3,00	0,00	3,00	75%		
	Establish clear responsibilities for the drought task force	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
3.2.3	Identify the responsible for the drought task force	1-4	3	3	3	3	3	3	3	3	3,00	3,00	0,00	3,00	75%		
3.3	Communication and Participation	Mean	3,00	3,00	3,00	3,00	3,00	3,00	3,00	3,00	3,00	3,00	0,00	3,00	75%		
3.3.1	Promotion of dissemination and communication	Mean	3,00	3,00	3,00	3,00	3,00	3,00	3,00	3,00	3,00	3,00	0,00	3,00	75%		
	Identify the responsible for the communication of the DMP	1-4	2	2	2	2	2	2	2	2	2,00	2,00	0,00	2,00	50%		
	Establish different means and mechanisms	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
3.3.2	Promotion of public participation	Mean	3,00	3,00	3,00	3,00	3,00	3,00	3,00	3,00	3,00	3,00	0,00	3,00	75%		
	Responsible to promote and manage public participation	1-4	2	2	2	2	2	2	2	2	2,00	2,00	0,00	2,00	50%		
	Establish clear mechanisms or Describe the participation process and the results	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
3.4	Establish DMP Follow-up	Mean	2,83	2,83	2,83	2,83	2,83	2,83	2,83	2,83	2,83	2,83	0,00	2,83	71%		
3.4.1	Identification and description of follow-up indicators and tools	Mean	2,50	2,50	2,50	2,50	2,50	2,50	2,50	2,50	2,50	2,50	0,00	2,50	63%		
	Follow-up indicators	1-4	4	4	4	4	4	4	4	4	4,00	4,00	0,00	4,00	100%		
	Follow-up tools	1-4	1	1	1	1	1	1	1	1	1,00	1,00	0,00	1,00	25%		
3.4.2	Ex post assessment	1-4	3	3	3	3	3	3	3	3	3,00	3,00	0,00	3,00	75%		
3.4.3	Plan revision process	1-4	3	3	3	3	3	3	3	3	3,00	3,00	0,00	3,00	75%		
	Mean	Mean	3,19	2,84	3,04	3,14	3,16	2,82	3,23	2,93	2,82	3,23	0,16	3,04	76%		