Drought Resilience +10 / 30 Sep. - 02 Oct. 2024



Drought Management in South Korea Woosung Nam

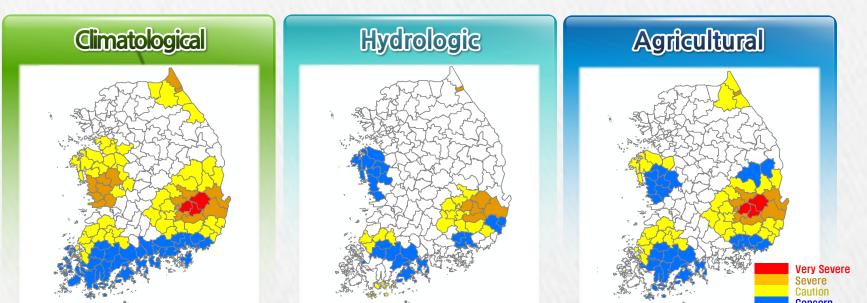
K-water National Drought Information analysis Center (wsnam@kwater.or.kr)

- 1. Drought history in S.Korea
- **Drought Cycle:** 5~7year (1973~2012) **Drought occurs Every year (2012~) Drought Freq** : 0.36 times/y (1904~2000) **Drought Freq** : 0.36 times/y (2001~2022) 2008년 2009년



4. DEWS in S. Korea

- (Authorities) MOIS, ME, MAFRA, KMA
- (Update Interval) 10th every month (more often if drought gets worse)
- (Regions) 167 administrative districts in South Korea
- (Items) Current Drought Condition, 1–, 2–, and 3–month Outlooks
- (Categories) Climatological, Hydrologic, Agricultural Droughts





2. Drought Management Policy Framework in S. Korea -

Stage	Contents
Prevention	 Inspection of vulnerable facilities Facility maintenance action plan Improvement of drought early warning system Establishment of emergency action plan Regulation organization
Preparedness	 Organization of comprehensive disaster preparedness plans Development and operation on disaster preparedness system Education, public outreach, and training for drought management
Response	 Issuing disaster early warning Control tower operation and taking emergency measures Joint response among private, public, and military sectors
Recovery	 Taking disaster recovery measures Relief of victims Taking health and hygiene measures

3. Main Drought Policies in S. Korea -

Drought Policy	Main Contents	Authority	6. Drought Vulnerability Map Development of Nationwide Drought Vulnerability Map to be prepared with extreme drought			
ought Early Warning System (DEWS)	•Monthly release of drought maps showing current conditions and outlooks of meteorological, agricultural and hydrologic drought	Joint Departments (MOIS)				
Drought Response Task Force	• Weekly checking out nationwide drought condition and decision making for drought preparedness and response	Joint Departments (MOIS)	Implement	[©] The law about planning an Establishment of a drought	nd management of water resources』 vulnerability map	Article 7.
Comprehensive Drought /Ianagement Plans	Annual governmental announcement of drought plans	Joint Departments (MOIS)	Basis Implementation Plan	(2018) Establishment of midelines (2010, 2022) Magning drought		
Designation as /ulnerable Regions to Drought	 Financial support system for designated regions vulnerable to drought 	MOIS	Utilization Plan	Evaluation on drought vulner ability Evaluation of high-risk areas Analyze the weighted factors	Extraction of reduction measures Extract reduction measures (Develop new water resources,	
omprehensive Plans or Natural Disaster Mitigation	• Local governments are required to establish natural disaster such as mitigation plans every 10 year	Local Governments		3 Effect analysis	improve utilization of existing facilities)	A CALLER AND A CAL
Drought Vulnerability Map	 Mapping overall drought vulnerability by the assessment of exposure, sensitivity, and ability to adapt 	ME / Local Governments		Analyze the effects of business Prioritize reduction measures	 Establish short/long-term drought response plans and policies 	
7. Response to	'22~'23 Drought					
Central • (Ministry of Interior and Safety) Drought response and support of drought countermeasure such as promotion and budget, of local governments • (Ministry of Agriculture, Food and Rural Affairs) Agricultural drought response • (Ministry of Environment) Municipal and industrial water acquisition through conjunctive dam operation and decrease in river maintenance flow • (Ministry of Trade, Industry and Energy) Operation of national industrial complex (Postponement of factory maintenance period)			Local Government	 Taking actions for securing water and conducting saving water campaign Crop damage monitoring Implementation of drought response measures over farming period 		

5. Drought TF-

- (Authorities) MOIS, ME, MAFRA, KMA

- (Roles) Decision making for drought response and issuing drought early warning based on meteorological, agricultural, and hydrological drought information



