



Supplement of

Documentary evidence of urban droughts and their impact in the eastern Netherlands: the cases of Deventer and Zutphen, 1500–1795

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Table S1: Overview of drought events from Deventer (D) and Zutphen (Z), 1500-1795

Year	Month	Season	Location	HSDS ranking	Source	Descriptions from the sources
1534	uncertain	Summer	Deventer	3	HCO (0690, 135;1)	Great drought and a lack of water, ordinance calls for storing water in barrels in case of a fire
1556	September	Autumn	Deventer	3	HCO (0690, 135;3)	Period of drought and a lack of water, calls for storing water in barrels in case of a fire
1588	January	Winter	Zutphen	4	ZuRAZ (0001;2)	Period of drought and use of the watermills only permitted after rainfall returns
1589	December	Winter	Zutphen	3	ZuRAZ (0001;2)	Low water levels, no navigation possible to the city
1597	March	Autumn	Zutphen	2	ZuRAZ (0001;3)	low water levels, limited navigation
1612	July	Summer	Deventer	3	HCO (0691;7a)	Period of drought and low water levels on the IJssel, a lack of water in wells and an ordinance calls for storing water in barrels in case of a fire
1615	September (D) and May (Z)	Autumn (D) and Spring (Z)	Deventer and Zutphen	3 (D) and 2 (Z)	HCO (0691;6a); ZuRAZ (0001;6)	Period of drought, request from the sworn men in Deventer to issue an ordinance requiring the inhabitants to store water
1629	August	Summer	Deventer and Zutphen	3	HCO (0691; 7b);ZuRAZ (0001;8)	Period of drought and low water, limited to no use of watermills (and windmills) and increased use of draught mills in Zutphen, an ordinance calls for storing water in barrels in case of a fire in Deventer
1630	December	Winter	Deventer	2	HCO (0691; 6b)	Period of low water, request from the sworn men to construct a palisade as extra protection of the city due to the low water mark in the IJssel
1633	September	Autumn	Deventer	3	HCO (0691; 7b)	Period of major drought, low water marks and an ordinance calls for storing water in barrels in case of a fire
1634	March	Spring	Deventer	4	HCO (0691; 6b)	Period of drought, low water addressed by the sworn men to deepen the city's harbour, lack of wind and water necessitates to prepare the draught mill

1638	August	Summer	Deventer	3	HCO (0691; 7b)	Period of drought, low water levels and a lack of water in wells, an ordinance calls for storing water in barrels in case of a fire in Deventer
1645	August	Summer	Deventer	3	HCO (0691; 7b)	Period of drought, lack of water in wells, an ordinance calls for storing water in barrels in case of a fire
1650	June	Summer	Deventer	4	HCO (0691; 14.4)	Period of drought, lack of water, watermills unable to function
1652	May	Spring	Deventer	3	HCO (0691; 7b/14.4)	Period of drought, lack of water, an ordinance calls for storing water in barrels in case of a fire, use of water from a nearby brook to wet the St. Jurriensdijk instead of water from the dried out Schipbeek
1662	October	Autumn	Deventer	3	HCO (0691; 7b)	Lack of water in the city's wells, ban on lighting fireworks and an ordinance calls for storing water in barrels in case of a fire
1666	July	Summer	Deventer	3	HCO (0691; 7c)	Period of drought and an ordinance calls for storing water in barrels in case of a fire
1667	August	Summer	Zutphen	3	ZuRAZ (0001;18)	Lack of water in the city, fear for fires, ban on lighting fireworks or celebratory pitch barrels
1669	September	Autumn	Deventer and Zutphen	4 (D) and 3 (Z)	HCO (0691; 7c); ZuRAZ (0001;18)	Extraordinary drought, unusually low water levels and a lack of water in the wells of Deventer leading to an enforced deepening of wells, an ordinance calls for storing water in barrels in case of a fire in Zutphen
1672	January	Winter	Deventer	3	HCO (0691; 7c)	Low water levels in the rivers, a lack of water in wells, storing water in barrels
1690	May	Spring	Deventer	3	HCO (0691; 7c)	Period of drought, an ordinance calls for storing water in barrels in case of a fire
1696	December	Winter	Deventer	3	HCO (0691; 7c)	Lack of water in the city, ban on certain activities causing fire hazards
1731	November	Winter	Deventer	3	HCO (0691; 7d)	Waterless period, general lack of water in the city, an ordinance calls for storing water in barrels in case of a fire

1733	uncertain (D) and September (Z)	Summer (D) and autumn (Z)	Deventer and Zutphen	3 (D) 4 (Z)	HCO (0691; 4.28) ZuRAZ (0001;32)	Dry summer, low water levels and a lack of water in wells and pumps in Zutphen, deepening of the waterways near Deventer
1749	October and December	autumn/winter	Zutphen	3	ZuRAZ (0001;35)	Extraordinary low water levels on the IJssel river, a lack of peat due to hampered navigation
1753	June (D) and September (Z)	Summer (D) and autumn (Z)	Deventer and Zutphen	4	HCO (0691; 7e) ZuRAZ (0001;37)	Excessive drought, low water levels, many wells without water, an ordinance calls for storing water in barrels in case of a fire
1772	December (D) and October (Z)	Autumn (D) and winter (Z)	Deventer and Zutphen	3	HCO (0691; 7f); ZuRAZ (0001;46)	Long-lasting lack of water in the rivers, lack of water in wells and pumps, requests to limit water use
1779	April (D) and February (Z)	Winter (D) and spring (Z)	Deventer and Zutphen	4	HCO (0691; 7f); ZuRAZ (0001;49)	Long-lasting lack of water in the rivers, many wells without water, ban on certain water-using activities, no navigation possible to Zutphen, outbreaks of dysentery in Zutphen
1781	March (D) and February (Z)	Winter (D) and spring (Z)	Deventer and Zutphen	4	HCO (0691; 4.43); ZuRAZ (0001;50)	Long-lasting drought and low water levels in the rivers, no navigation and watermills out of use specifically in Zutphen
1783	August (D) and July/August (Z)	Summer	Deventer and Zutphen	4	HCO (0691; 7f); ZuRAZ (0001;52)	Excessive drought, lack of water in the rivers, many wells without water, watermills out of use, limited yields of buckwheat near Deventer as a result of drought, an ordinance calls for storing water in barrels in case of a fire and outbreaks of dysentery in both cities
1790	April	Spring	Deventer	3	HCO (0691; 7g)	Strong drought, many wells without water, ordinance to limit water use.
1793	October	Autumn	Zutphen	3	ZuRAZ (0001.122)	Very low water levels, lack of water, ban on using water from the communal wells for scrubbing of streets
1794	January	Winter	Zutphen	3	ZuRAZ (0001.122)	Very low water levels, lack of water, ban on using water from the communal wells for scrubbing of streets