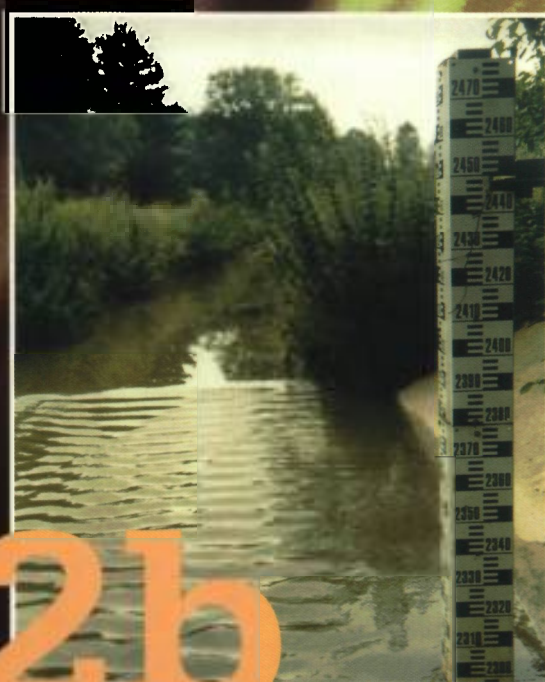


Analyse van hoogwaterafvoeren

Analyse van hoogwaterafvoeren
De stroomgebieden van de Kempen Gegevens stations / Deel 1



2b

De stroomgebieden van de Kempen

V



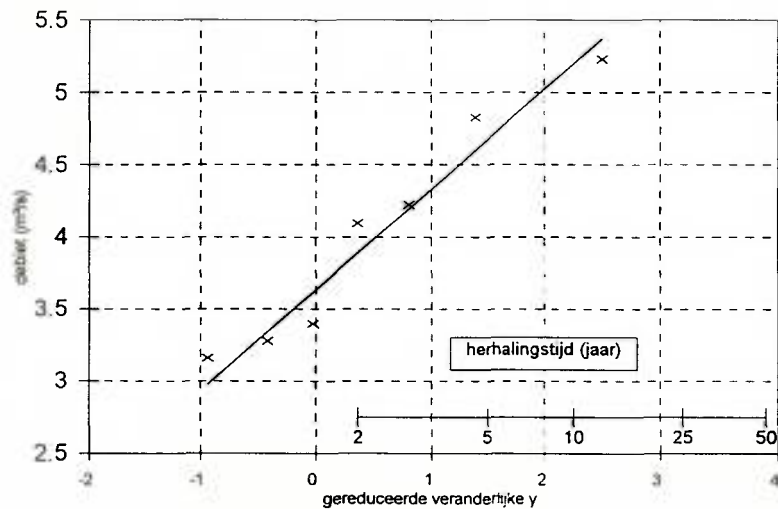
Ministerie van de
Vlaamse Gemeenschap
afdeling Water

1. Station 007

De Schijn
te Wijnegem

Station nr. 007 : Schijn te Wijnegem

Nr.	Waterjaar	Datum	Hoogte (cm)	Debiet (m³/s)
1	'89 - '90	14/02/90	114	3.160
2	'92 - '93	17/11/92	117	3.278
3	'91 - '92	4/06/92	120	3.397
4	'90 - '91	2/07/91	137	4.095
5	'95 - '96	29/08/96	140	4.222
6	'93 - '94	31/12/93	154	4.829
7	'94 - '95	30/01/95	163	5.231



Herhalingstijd (jaar)	Debiet (m³/s)	Spec. afvoer (l/s.ha)
2	3.883	0.36
5	4.673	0.43
10	5.196	0.48
25	5.856	0.54
50	6.346	0.58

Station 007 : Schijn te Wijnegem

Runoffhoeveelheden

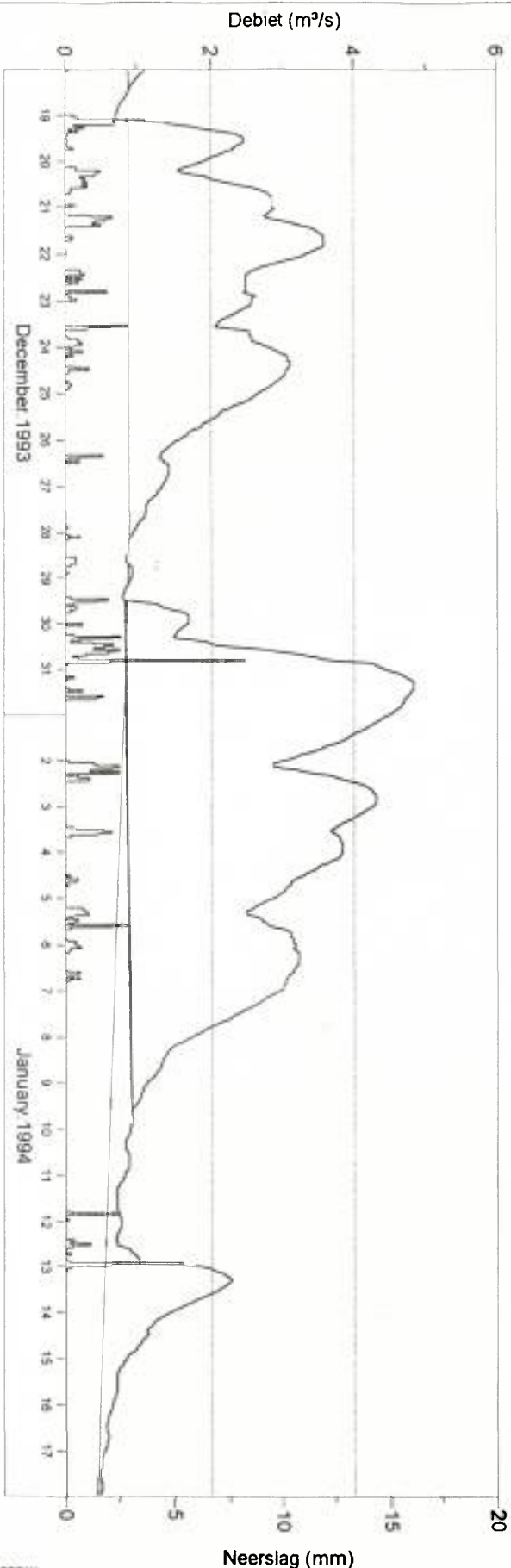
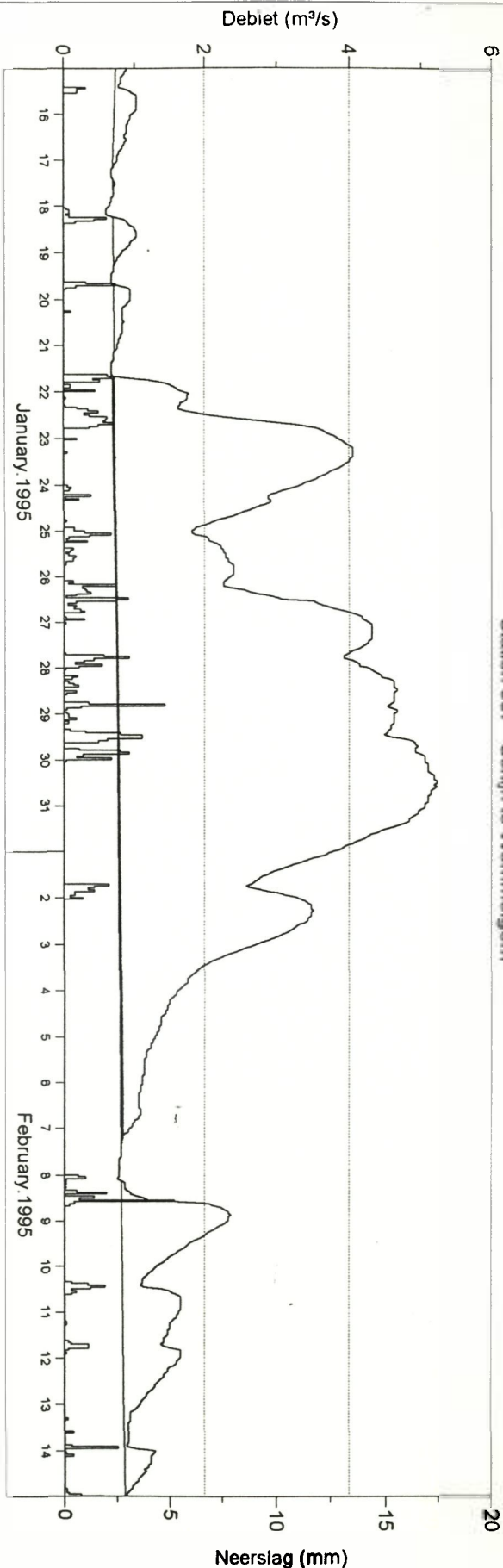
Stroomgebied = 10861 ha

Tijdreeks : 1989 - '96

Nr.	Was van (datum Q _{max})	q _{max} (l/s ha)	q _{begin} (l/s ha)	q _{eind} (l/s ha)	Neerslag som (mm)	Neerslag duur (uur)	Concentratie tijd (uur)	Runoff (mm)	Runoff- Coeff. (-)	Runoff duur (uur)
1	30/01/95	0.48	0.06	0.07	113.6	274	49	30.2	0.27	400
2	31/12/93	0.44	0.07	0.08	76.0	234	43	19.3	0.25	285
3	28/12/94	0.32	0.03	0.08	87.4	189	41	12.9	0.15	275
4	09/04/94	0.27	0.05	0.05	68.5	232	46	10.8	0.16	297
5	21/12/93	0.33	0.07	0.07	58.9	213	36	10.8	0.18	248
6	13/12/93	0.40	0.04	0.07	63.3	150	29	9.9	0.16	177
7	20/02/95	0.31	0.08	0.09	66.4	348	25	9.8	0.15	335
8	21/12/91	0.28	0.04	0.05	69.8	261	52	9.1	0.13	334
9	13/11/91	0.26	0.03	0.05	129.7	345	64	8.6	0.07	331
10	23/01/94	0.26	0.04	0.05	46.3	253	29	8.3	0.18	285
11	02/07/91	0.38	0.03	0.05	83.8	63	29	7.5	0.09	143
12	14/02/90	0.29	0.10	0.13	50.3	204	44	7.3	0.14	327
13	12/01/93	0.28	0.06	0.07	46.3	291	42	6.9	0.15	306
14	04/12/92	0.23	0.08	0.08	37.0	201	35	5.7	0.15	217
15	29/08/96	0.39	0.04	0.06	83.3	93	17	5.3	0.06	134
16	17/11/92	0.30	0.05	0.08	65.2	244	47	5.2	0.08	242
17	05/06/94	0.34	0.02	0.04	59.9	112	33	5.1	0.08	140
18	01/03/90	0.25	0.13	0.13	41.4	135	62	5.0	0.12	306
19	24/01/90	0.21	0.06	0.09	40.5	161	53	4.3	0.11	207
20	23/12/95	0.33	0.03	0.04	45.9	116	17	4.1	0.09	140
21	14/11/93	0.27	0.03	0.03	43.1	70	22	4.1	0.09	107
22	11/01/95	0.24	0.07	0.08	23.0	101	13	3.8	0.17	142
23	03/01/91	0.24	0.06	0.07	37.6	97	18	3.4	0.09	146
24	12/12/92	0.28	0.08	0.09	18.1	15	34	3.2	0.18	146
25	09/12/94	0.30	0.03	0.04	33.0	70	29	3.2	0.10	128
26	23/03/92	0.20	0.05	0.06	41.0	153	22	3.1	0.08	147
27	25/10/92	0.20	0.04	0.06	60.2	154	28	3.1	0.05	209
28	19/03/94	0.29	0.04	0.05	23.5	47	26	3.0	0.13	87
29	25/03/94	0.21	0.04	0.05	26.5	102	28	2.9	0.11	159
30	08/02/95	0.22	0.07	0.08	21.8	94	21	2.8	0.13	139

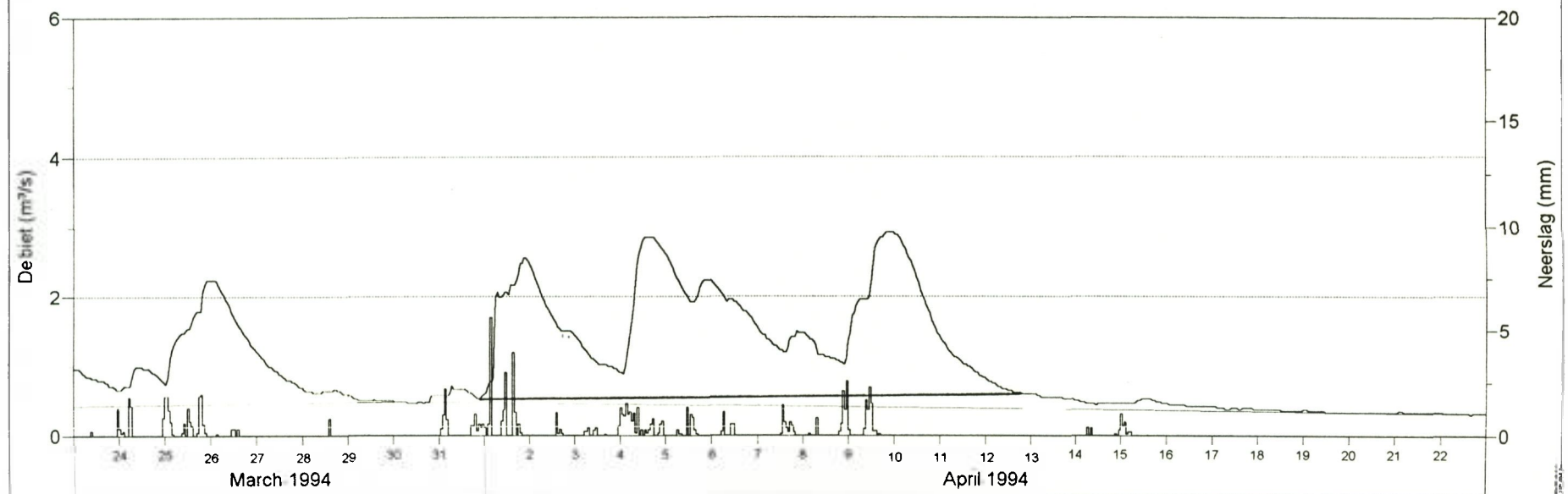
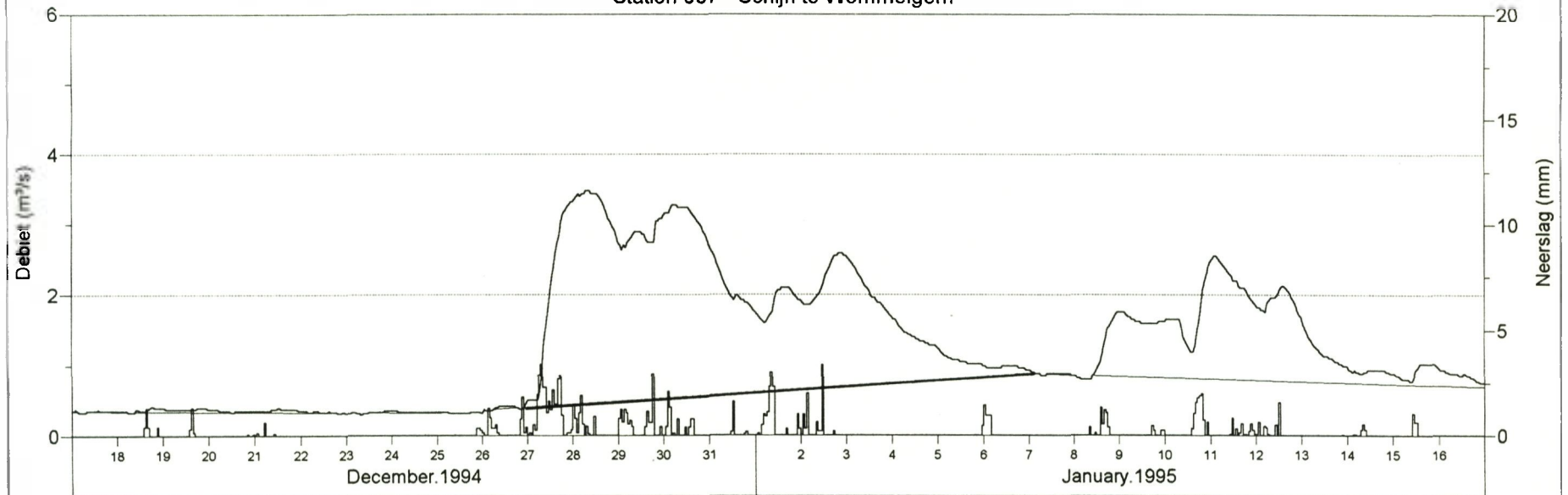
Uurwaarden van neerslag, debiet en basisafvoer

Station 007 - Schipje te Wormmelingem



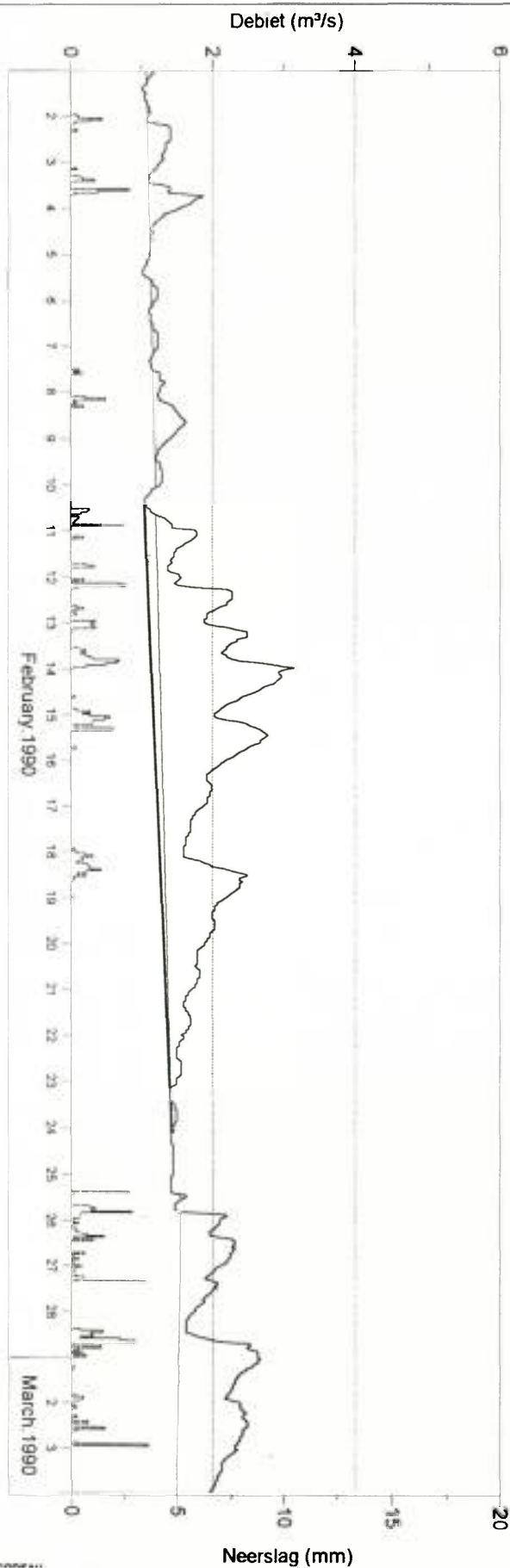
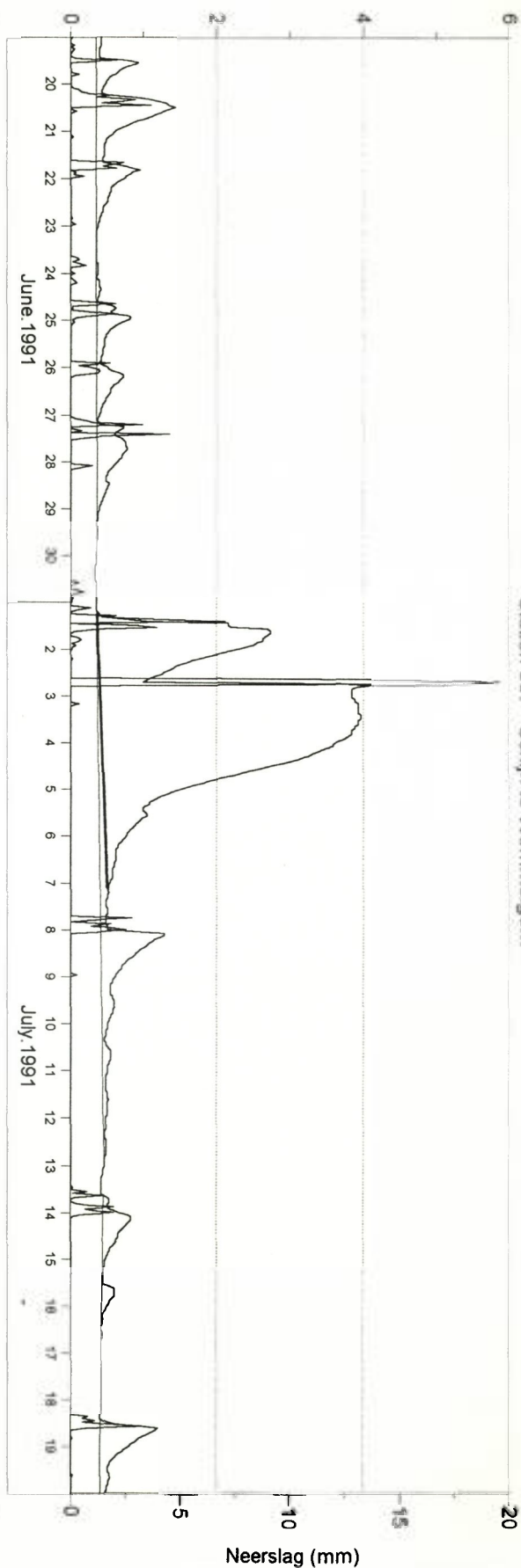
Uurwaarden van neerslag, debiet en basisafvoer

Station 007 - Schijn te Wommelgem



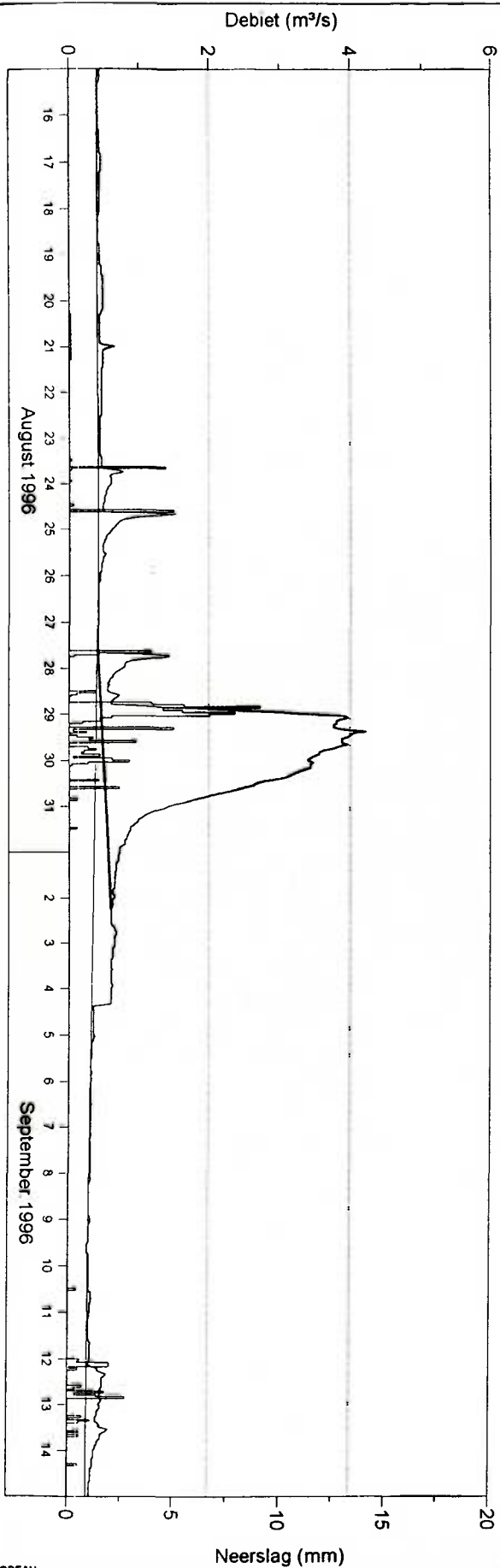
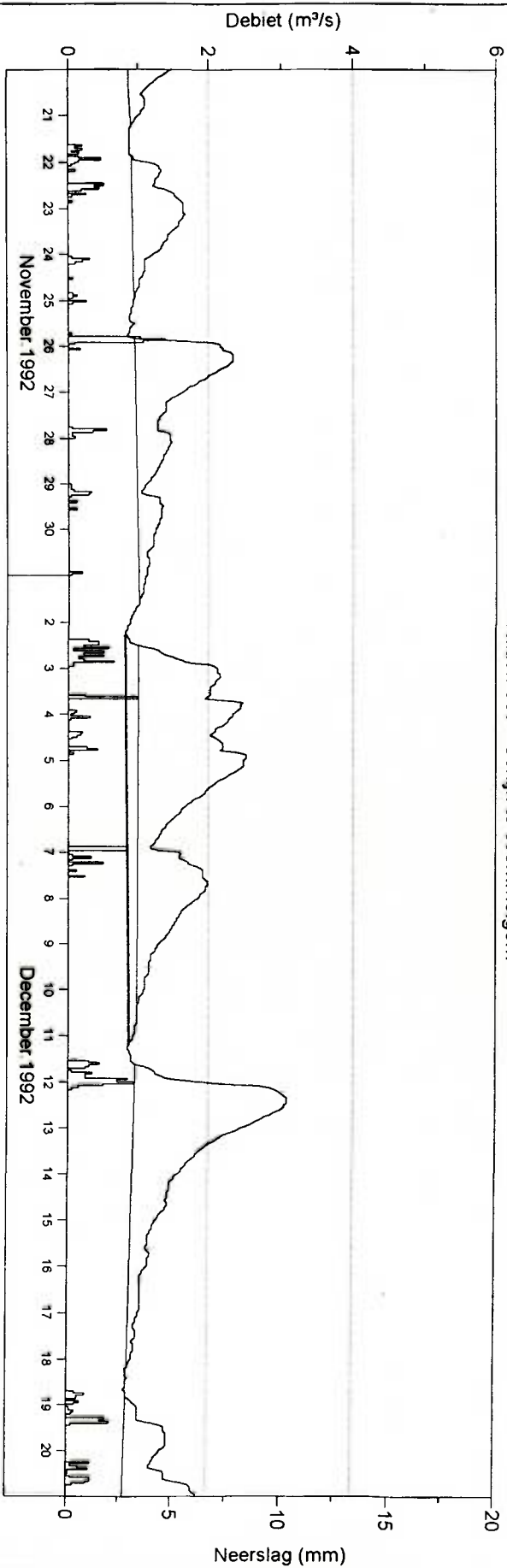
Uurwaarden van neerslag, debiet en basisafvoer

Station 007 - Schijn te Wormmelgem

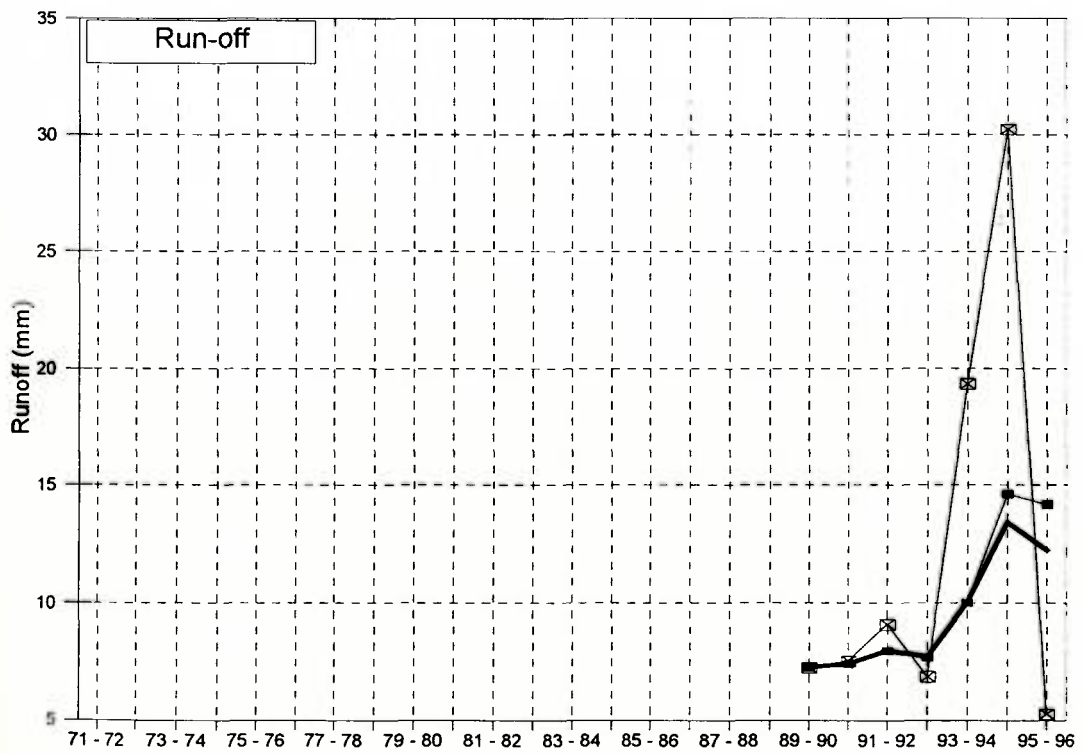
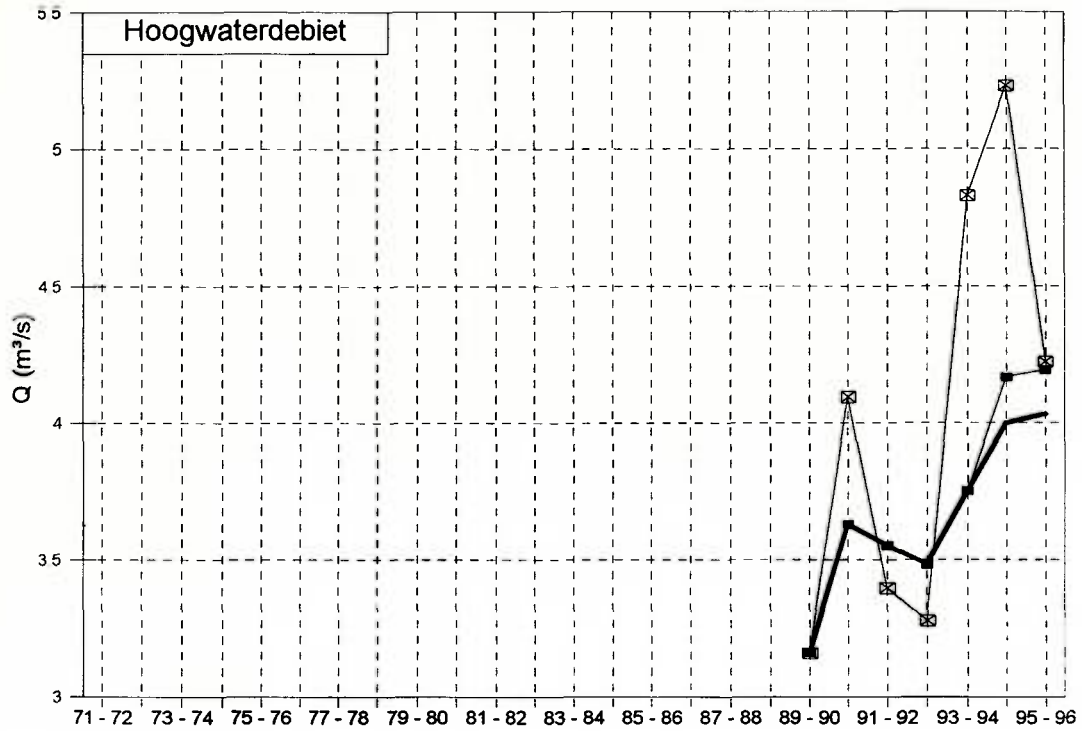


Uurwaarden van neerslag, debiet en basisafvoer

Station 007 - Schijn te Wommelgem



Station 007 : Schijn / Wijnegem

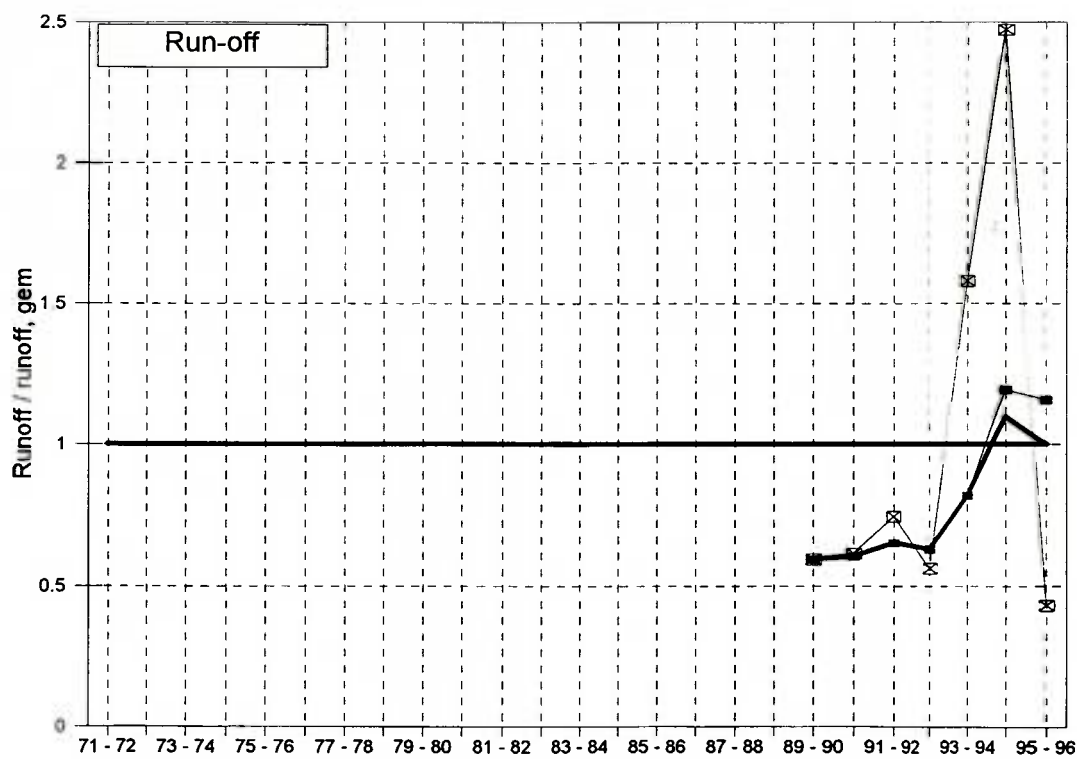
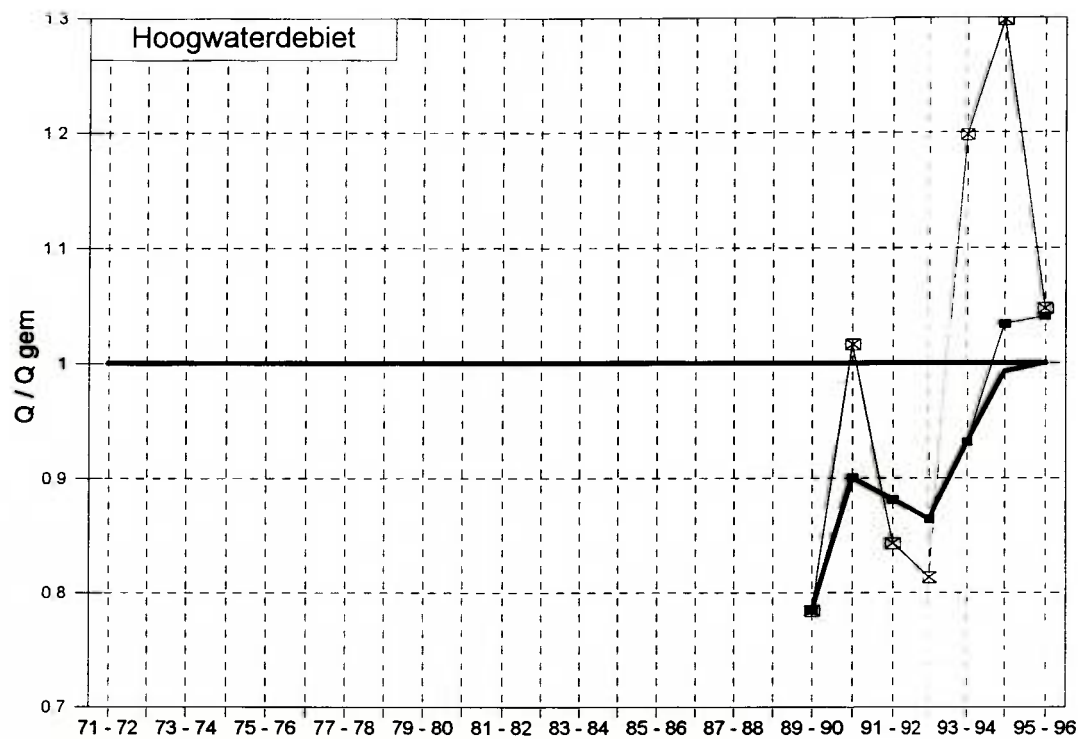


— doorlopend gemiddelde

—x— Jaarmaxima

—■— 5-jaargemiddelde

Station 007 : Schijn / Wijnegem

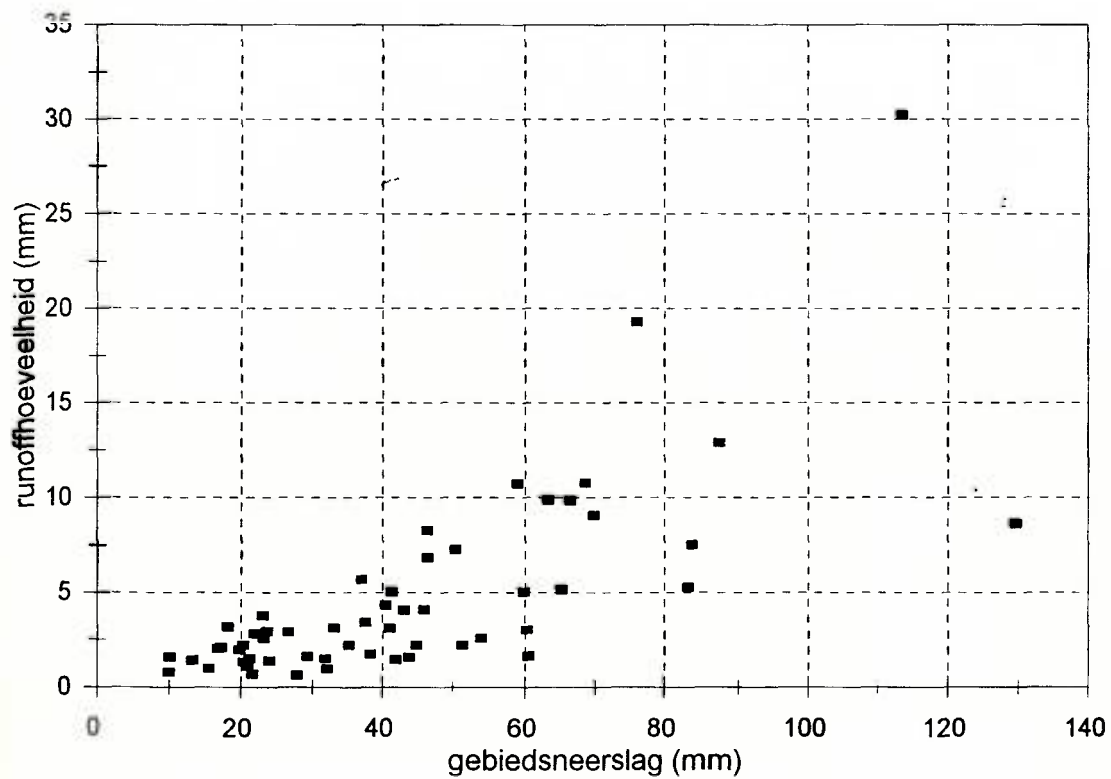
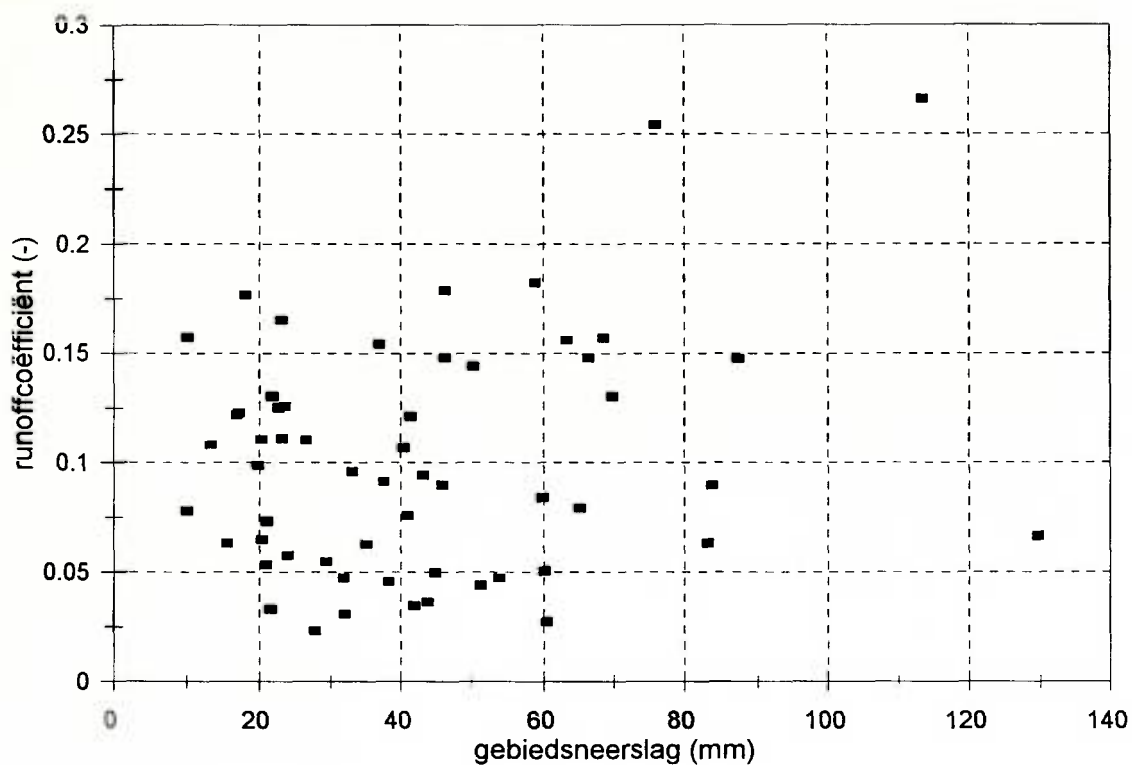


— doortopend gemiddelde

—x— Jaarmaxima

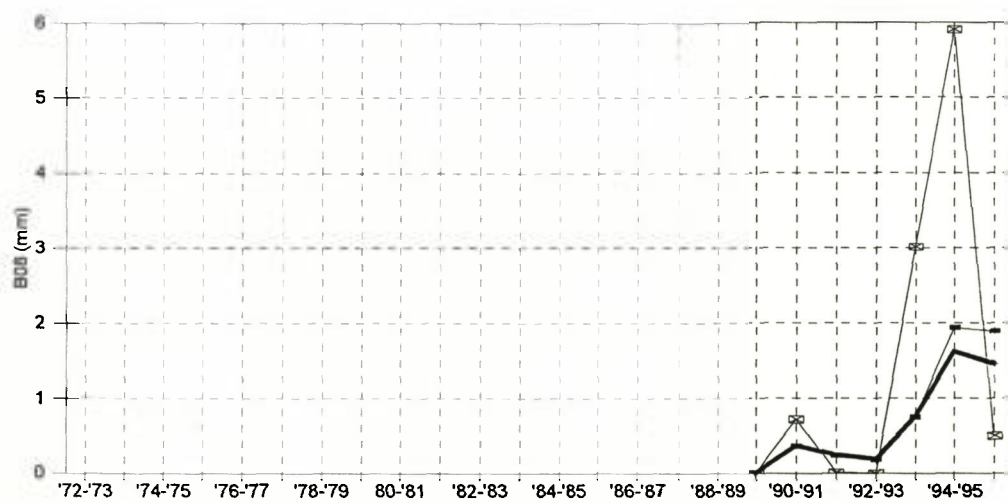
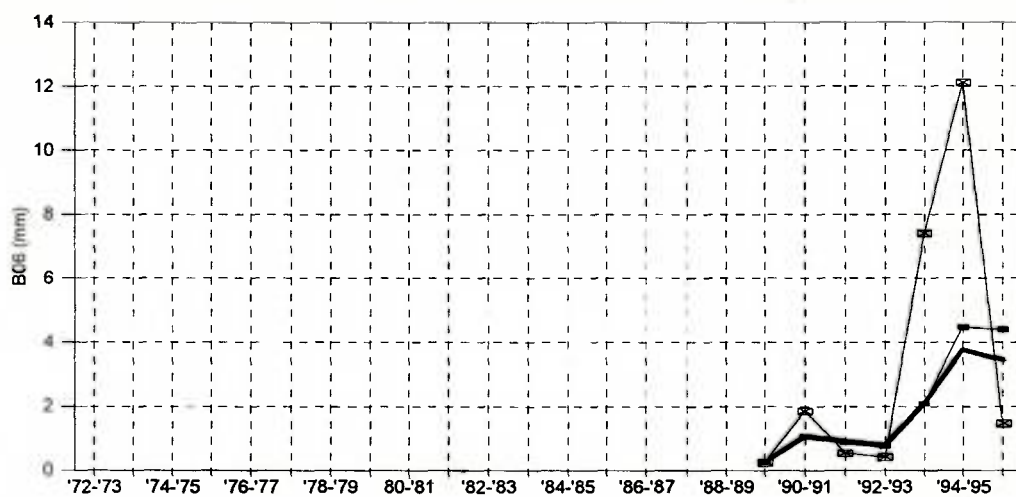
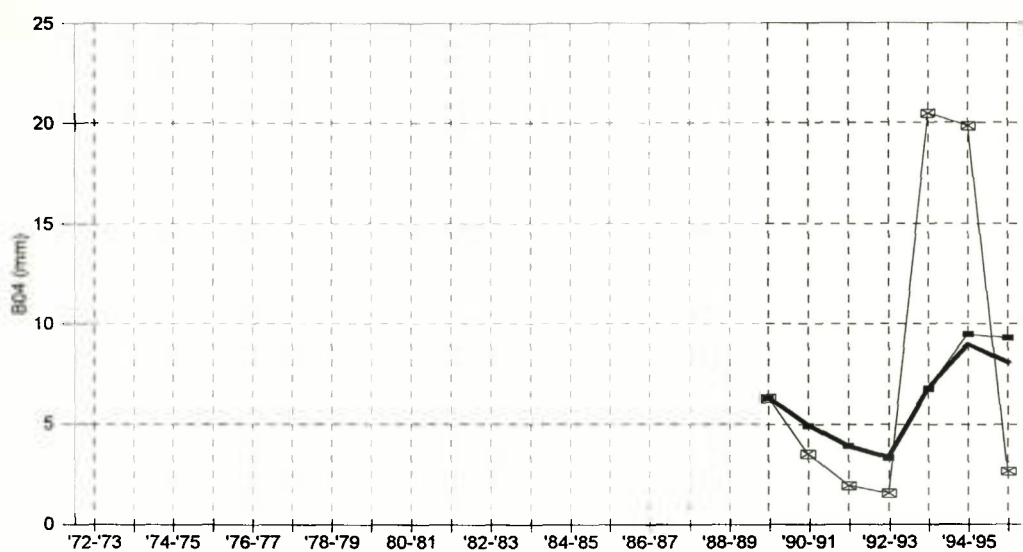
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Station 007 : Schijn / Wijnegem



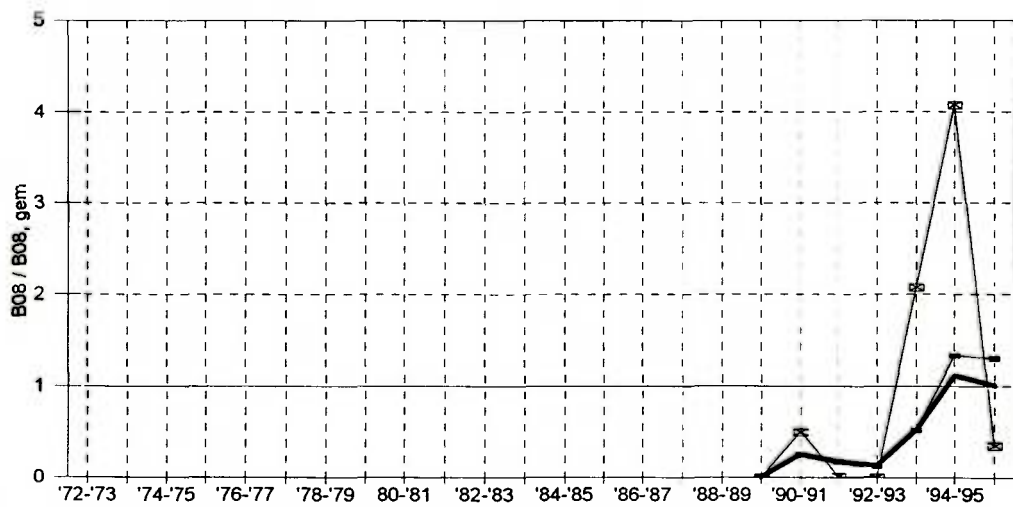
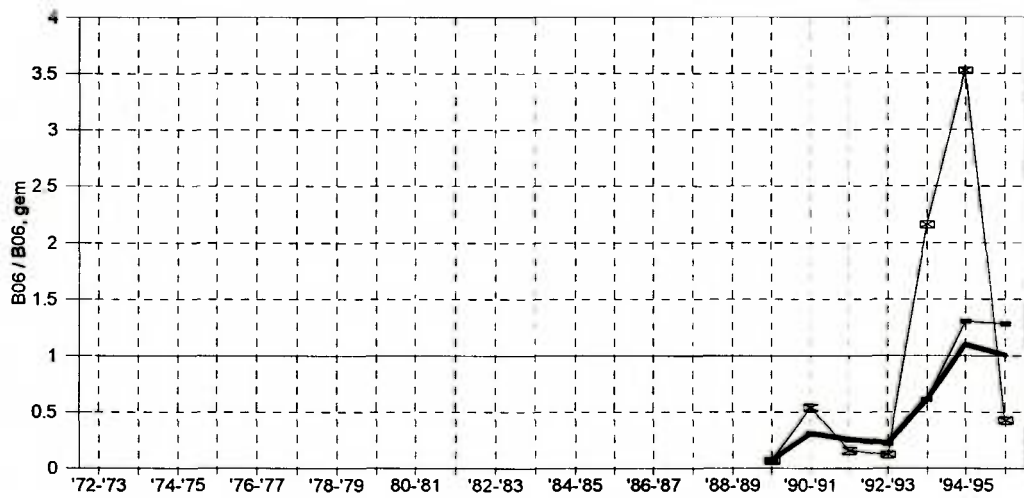
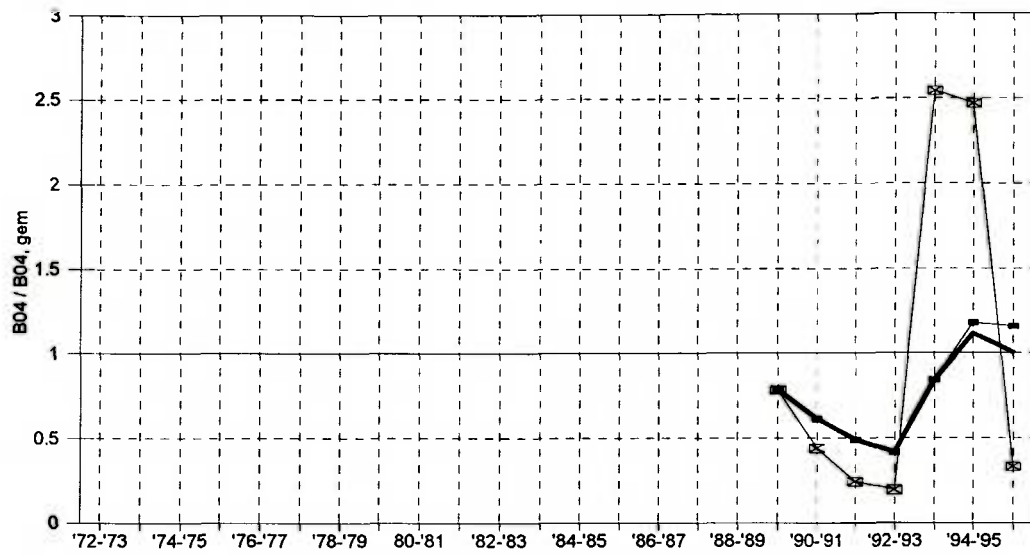
Jaarmaxima van bergingen					
Station 007 : Schijn / Wommelgem			Gemidd. jaarmax. : 4.030 m³/s		
Waterjaar	piekdebiet (m³/s)	datum	bergings (mm)	bergings (uur)	datum
Bergingen boven 0,3 - Qgem					
'89 -'90	3.160	14/02/90	22.16	3453	28/04/90
'90 -'91	4.095	02/07/91	4.69	324	05/07/91
'91 -'92	3.043	21/12/91	3.50	348	25/12/91
'92 -'93	3.278	17/11/92	7.92	2035	15/12/92
'93 -'94	4.829	31/12/93	29.11	3250	08/01/94
'94 -'95	5.231	30/01/95	39.21	3228	08/03/95
'95 -'96	4.222	29/08/96	3.37	209	31/08/96
Bergingen boven 0,4 - Qgem					
'89 -'90	3.160	14/02/90	6.29	1314	08/03/90
'90 -'91	4.095	02/07/91	3.53	204	04/07/91
'91 -'92	3.043	21/12/91	1.94	165	24/12/91
'92 -'93	3.082	12/01/93	1.57	150	14/01/93
'93 -'94	4.829	31/12/93	20.46	1592	08/01/94
'94 -'95	5.231	30/01/95	19.84	1610	04/02/95
'95 -'96	4.222	29/08/96	2.67	140	30/08/96
Bergingen boven 0,5 - Qgem					
'89 -'90	3.160	14/02/90	1.14	260	16/02/90
'90 -'91	4.095	02/07/91	2.48	112	04/07/91
'91 -'92	3.043	21/12/91	1.08	105	23/12/91
'92 -'93	3.082	12/01/93	0.86	91	13/01/93
'93 -'94	4.829	31/12/93	12.08	951	07/01/94
'94 -'95	5.231	30/01/95	15.88	1147	03/02/95
'95 -'96	4.222	29/08/96	2.04	98	30/08/96
Bergingen boven 0,6 - Qgem					
'89 -'90	3.160	14/02/90	0.24	66	14/02/90
'90 -'91	4.095	02/07/91	1.85	88	04/07/91
'91 -'92	3.043	21/12/91	0.54	67	23/12/91
'92 -'93	3.278	17/11/92	0.41	44	18/11/92
'93 -'94	4.829	31/12/93	7.41	372	07/01/94
'94 -'95	5.231	30/01/95	12.11	661	03/02/95
'95 -'96	4.222	29/08/96	1.47	75	30/08/96
Bergingen boven 0,7 - Qgem					
'89 -'90	3.160	14/02/90	0.05	16	14/02/90
'90 -'91	4.095	02/07/91	1.26	70	04/07/91
'91 -'92	3.043	21/12/91	0.13	37	22/12/91
'92 -'93	3.278	17/11/92	0.16	26	17/11/92
'93 -'94	4.829	31/12/93	4.94	278	07/01/94
'94 -'95	5.231	30/01/95	8.43	448	02/02/95
'95 -'96	4.222	29/08/96	0.96	59	30/08/96
Bergingen boven 0,8 - Qgem					
'89 -'90			0.00	0	
'90 -'91	4.095	02/07/91	0.72	57	04/07/91
'91 -'92	3.397	04/06/92	0.01	7	04/06/92
'92 -'93	3.278	17/11/92	0.00	3	17/11/92
'93 -'94	4.829	31/12/93	3.01	228	04/01/94
'94 -'95	5.231	30/01/95	5.91	274	01/02/95
'95 -'96	4.222	29/08/96	0.50	47	30/08/96

Station 007 : Schijn / Wijnegem



— doorlopend gemiddelde — □ — Jaarmaxima — ■ — 5-jaargemiddelde

Station 007 : Schijn / Wijnegem

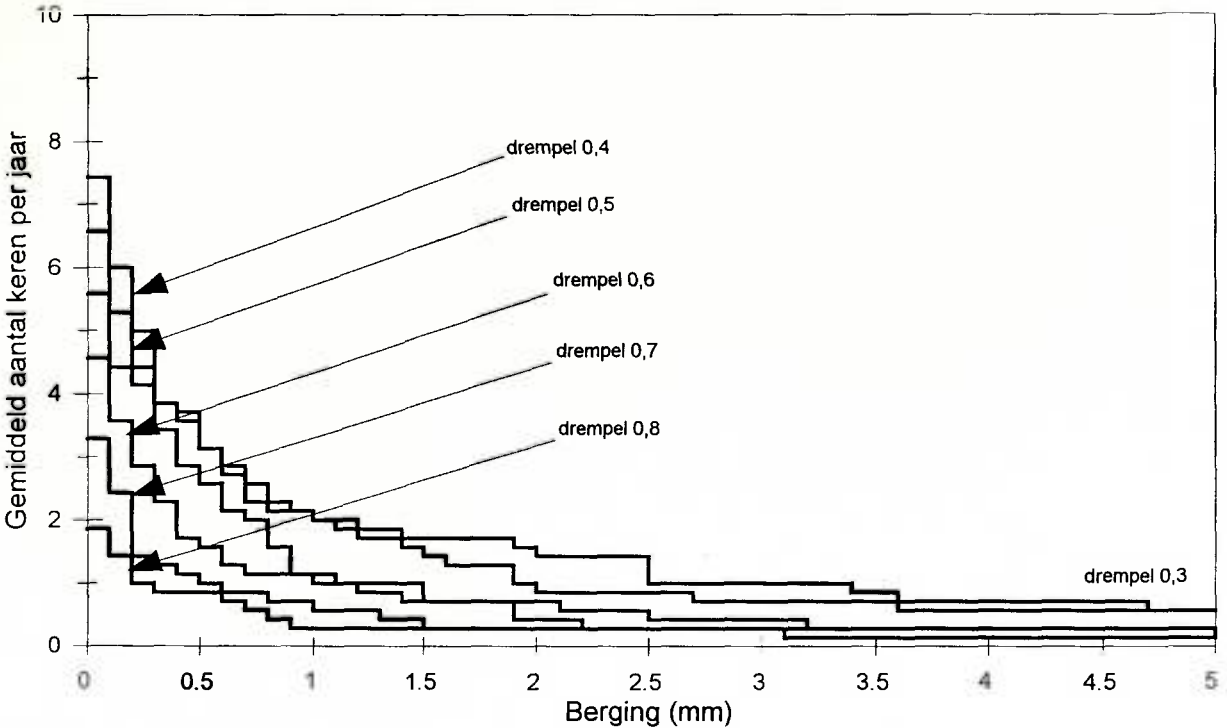


— doorlopend gemiddelde

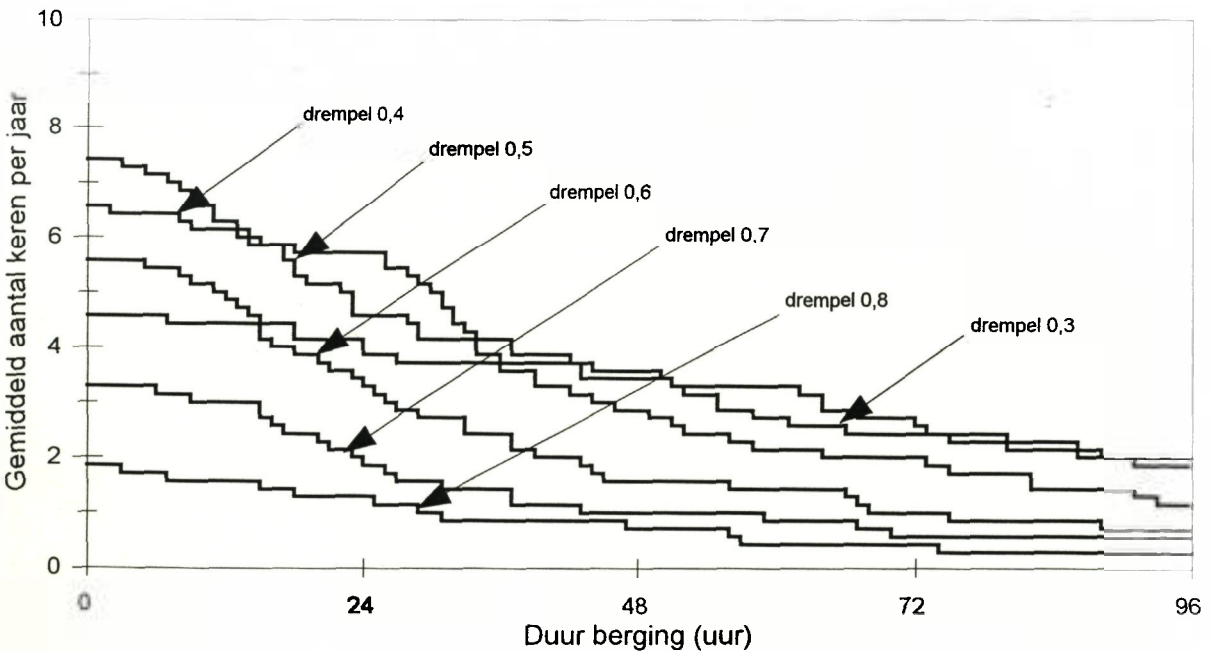
— Jaarmaxima

— 5-jaargemiddelde

Station 007 - Schijn te Wijnegem



Station 007 - Schijn te Wijnegem

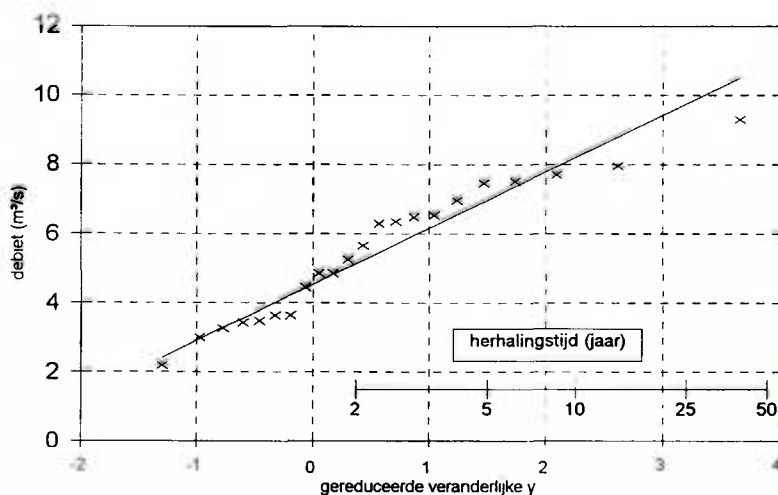


2. Station 022

De Dommel
te Overpelt

Station nr. 022 : Dommel te Overpelt

Nr.	Waterjaar	Datum	Hoogte (cm)	Debiet (m ³ /s)
1	'75 - '76	13/02/76	64+85	2.185
2	'72 - '73	13/02/73	80+85	3.006
3	'76 - '77	18/08/77	85+85	3.268
4	'71 - '72	10/07/72	88+85	3.428
5	'77 - '78	24/11/77	89+85	3.481
6	'73 - '74	9/02/74	92+85	3.641
7	'89 - '90	24/01/90	177	3.641
8	'78 - '79	19/03/79	107+85	4.461
9	'91 - '92	31/08/92	199	4.853
10	'90 - '91	7/08/91	199	4.853
11	'74 - '75	26/12/74	121+85	5.251
12	'85 - '86	19/01/86	213	5.654
13	'86 - '87	2/03/87	224	6.301
14	'88 - '89	8/03/89	225	6.360
15	'92 - '93	22/01/93	227	6.480
16	'84 - '85	1/10/84	228	6.540
17	'93 - '94	30/12/93	235	6.962
18	'83 - '84	7/02/84	243	7.452
19	'87 - '88	23/07/88	244	7.514
20	'94 - '95	30/01/95	247	7.700
21	'80 - '81	15/01/81	251	7.950
22	'79 - '80	27/07/80	272	9.294



Herhalingstijd (jaar)	Debiet (m ³ /s)	Spec. afvoer (l/s.ha)
2	5.125	0.49
5	6.967	0.66
10	8.187	0.78
25	9.728	0.92
50	10.872	1.03

Station 022 : Dommel te Overpelt

Runoffhoeveelheden

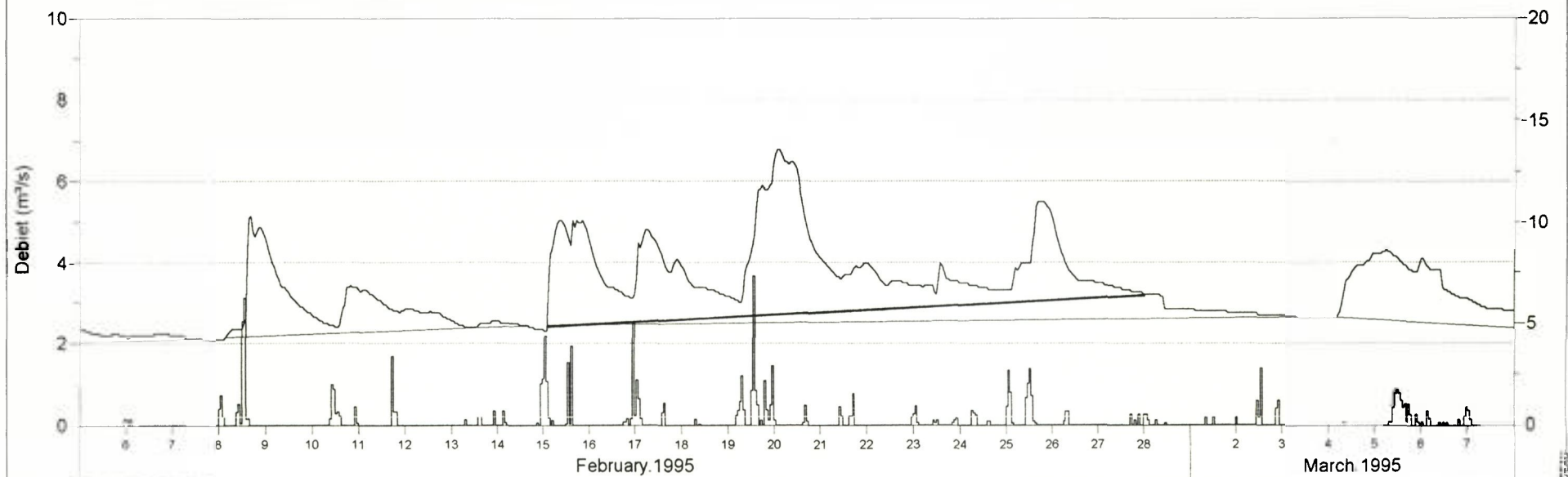
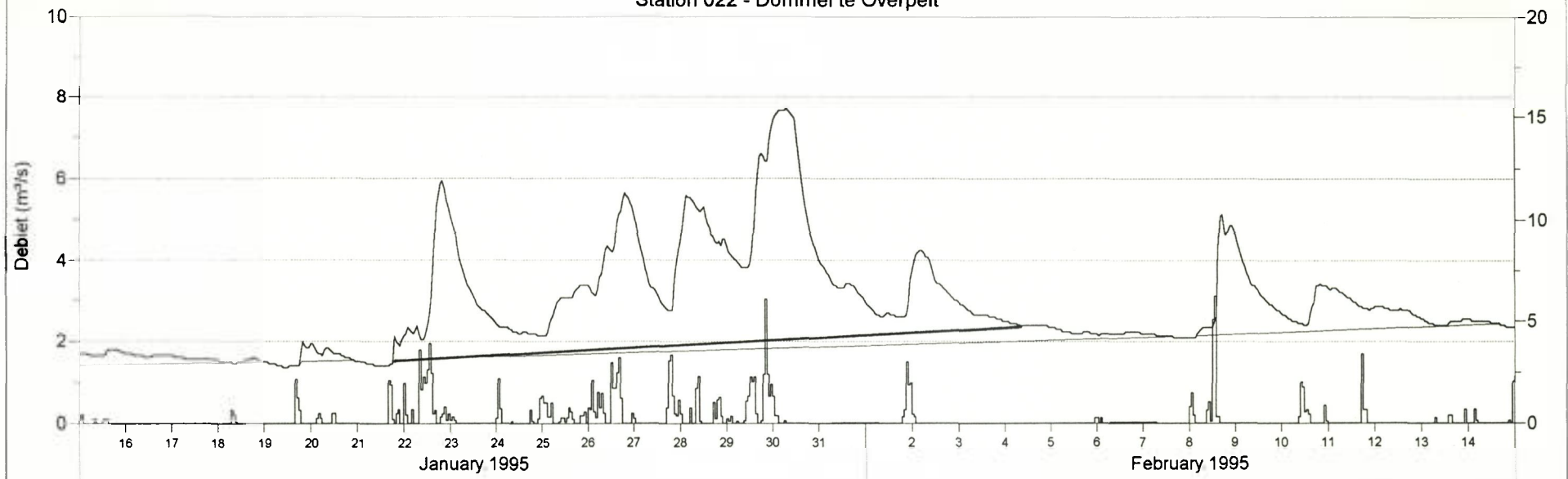
Stroomgebied = 10958 ha

Tijdreeks : 1971 - '96

Nr.	Was van (datum $Q_{\max}$)	$q_{\max}$ (l/s.ha)	q_{begin} (l/s.ha)	q_{eind} (l/s.ha)	Neerslag som (mm)	Neerslag duur (uur)	Concentratie tijd (uur)	Runoff (mm)	Runoff- Coëff. (-)	Runoff duur (uur)
1	30/01/95	0.70	0.13	0.22	122.9	274	35	22.4	0.18	326
2	20/02/95	0.62	0.21	0.30	81.0	276	10	14.5	0.18	305
3	07/02/84	0.68	0.12	0.22	75.3	145	22	13.4	0.18	193
4	15/01/81	0.73	0.19	0.23	48.8	141	19	12.4	0.25	165
5	31/08/92	0.44	0.04	0.06	101.9	201	27	11.4	0.11	226
6	04/02/80	0.60	0.25	0.31	80.0	183	25	11.1	0.14	213
7	10/03/81	0.56	0.20	0.26	56.1	176	14	10.6	0.19	188
8	25/03/88	0.58	0.19	0.21	61.5	236	14	10.4	0.17	255
9	21/12/93	0.39	0.11	0.17	62.5	189	14	10.0	0.16	191
10	12/03/88	0.46	0.15	0.21	49.1	126	18	9.2	0.19	156
11	30/12/93	0.64	0.16	0.24	56.0	183	15	9.2	0.16	234
12	27/12/94	0.43	0.10	0.13	81.6	161	10	9.1	0.11	201
13	20/10/84	0.36	0.11	0.15	53.5	193	19	9.0	0.17	202
14	23/11/84	0.39	0.06	0.16	47.3	127	29	8.1	0.17	172
15	01/10/84	0.60	0.11	0.14	44.2	55	20	7.4	0.17	102
16	29/08/96	0.64	0.01	0.08	93.1	96	14	6.7	0.07	85
17	10/09/84	0.36	0.05	0.09	91.9	127	32	6.7	0.07	140
18	24/03/87	0.53	0.16	0.21	35.1	72	16	6.4	0.18	93
19	08/03/89	0.58	0.11	0.14	28.9	24	29	6.2	0.21	121
20	23/07/88	0.69	0.09	0.11	35.4	19	8	5.4	0.15	51
21	28/11/74	0.44	0.13	0.16	46.1	107	11	5.3	0.11	105
22	29/05/84	0.54	0.09	0.13	37.7	69	18	5.2	0.14	89
23	15/09/84	0.60	0.07	0.19	52.1	31	13	5.2	0.10	61
24	21/07/80	0.68	0.18	0.24	35.4	28	14	3.8	0.11	50
25	19/01/86	0.52	0.11	0.20	33.7	40	14	3.6	0.11	58
26	27/07/80	0.85	0.15	0.20	37.1	5	11	3.2	0.09	30
27	12/01/93	0.37	0.09	0.15	34.4	86	11	3.2	0.09	90
28	28/02/87	0.42	0.11	0.18	12.4	47	18	3.2	0.26	61
29	14/11/93	0.38	0.06	0.12	34.2	33	14	3.2	0.09	64
30	26/01/85	0.56	0.16	0.23	24.5	17	13	3.1	0.13	49

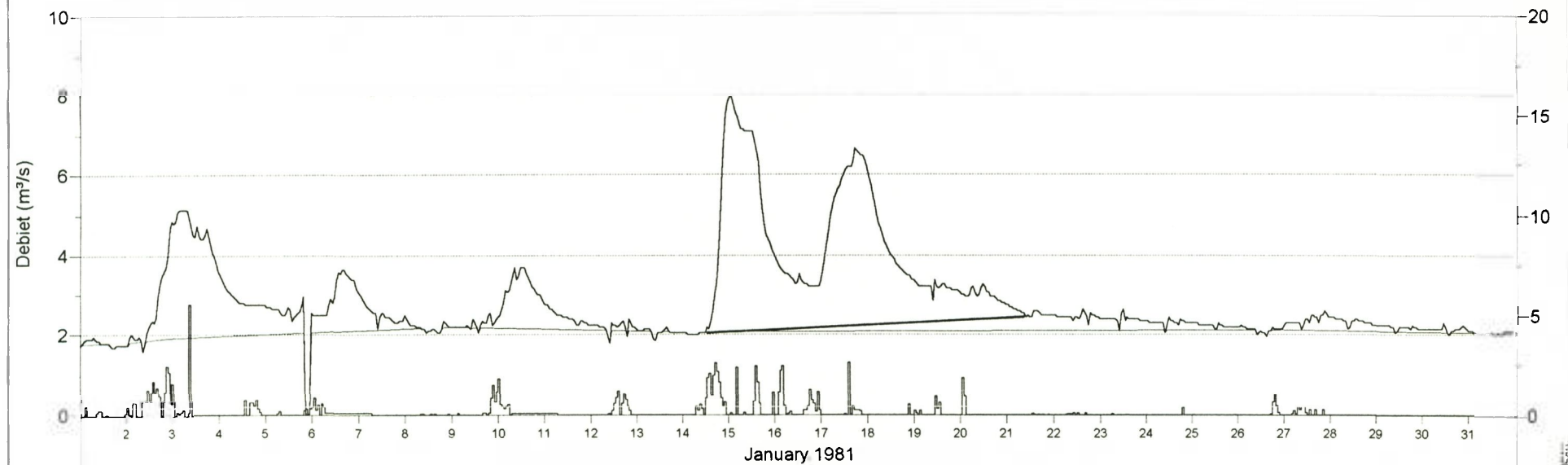
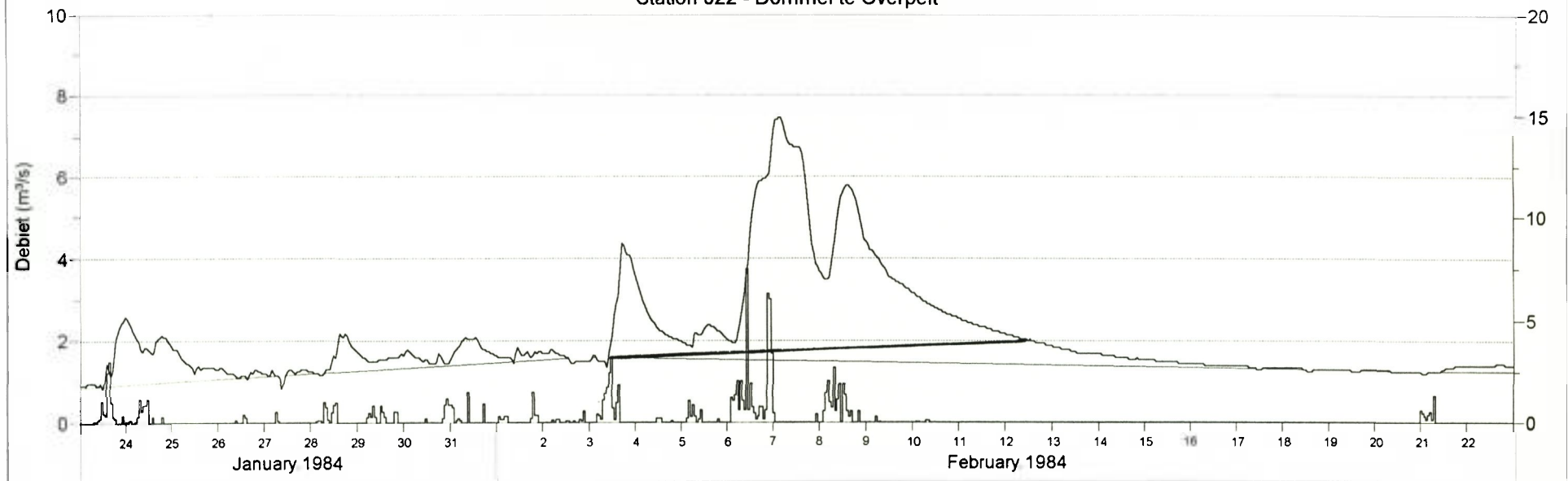
Uurwaarden van neerslag, debiet en basisafvoer

Station 022 - Dommel te Overpelt



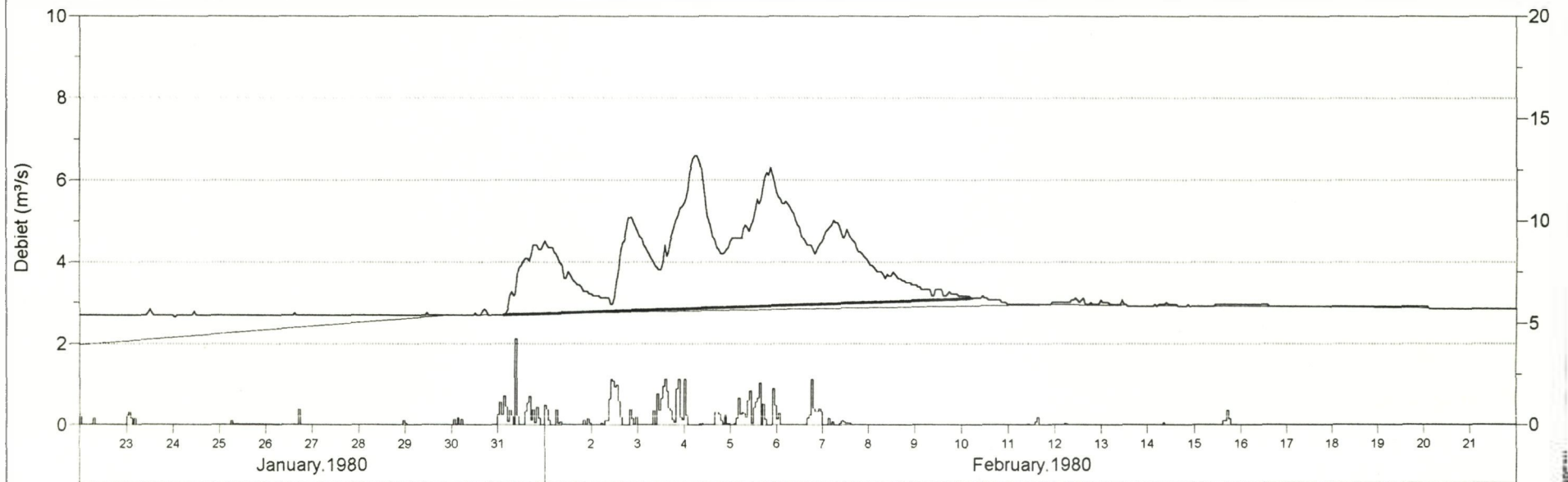
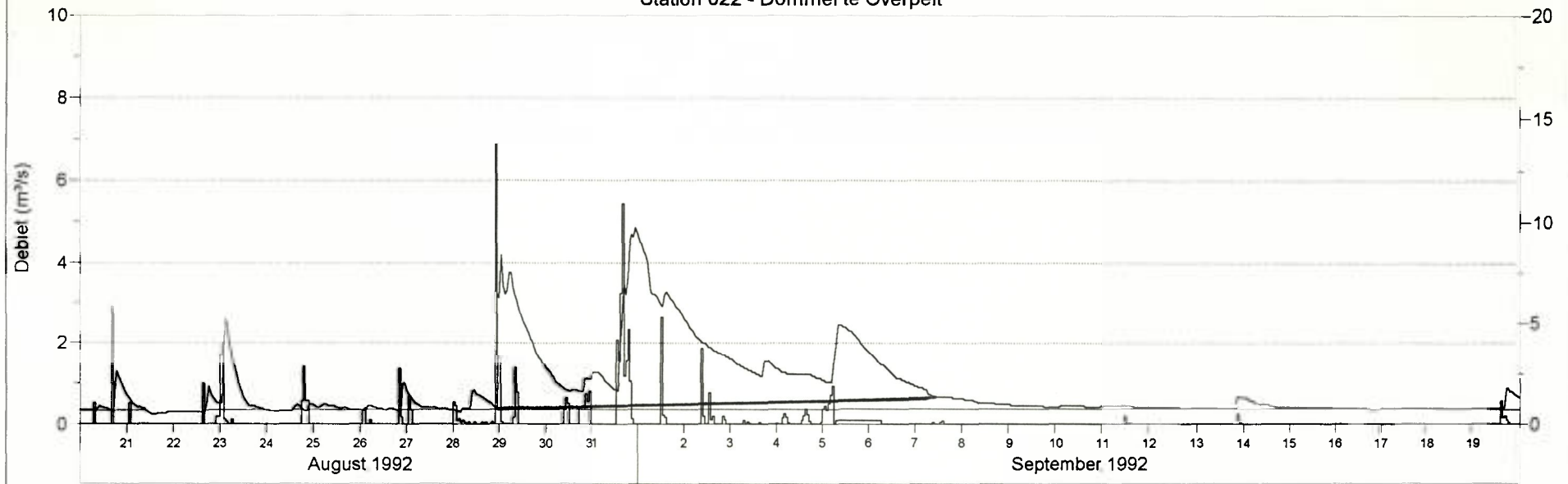
Uurwaarden van neerslag, debiet en basisafvoer

Station 022 - Dommel te Overpelt



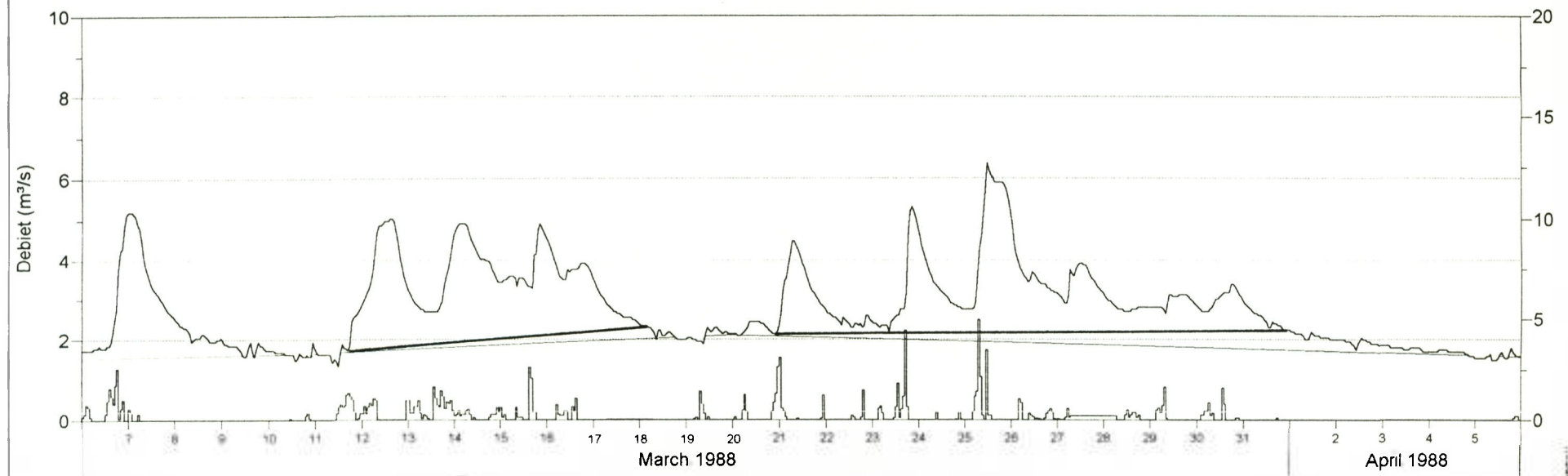
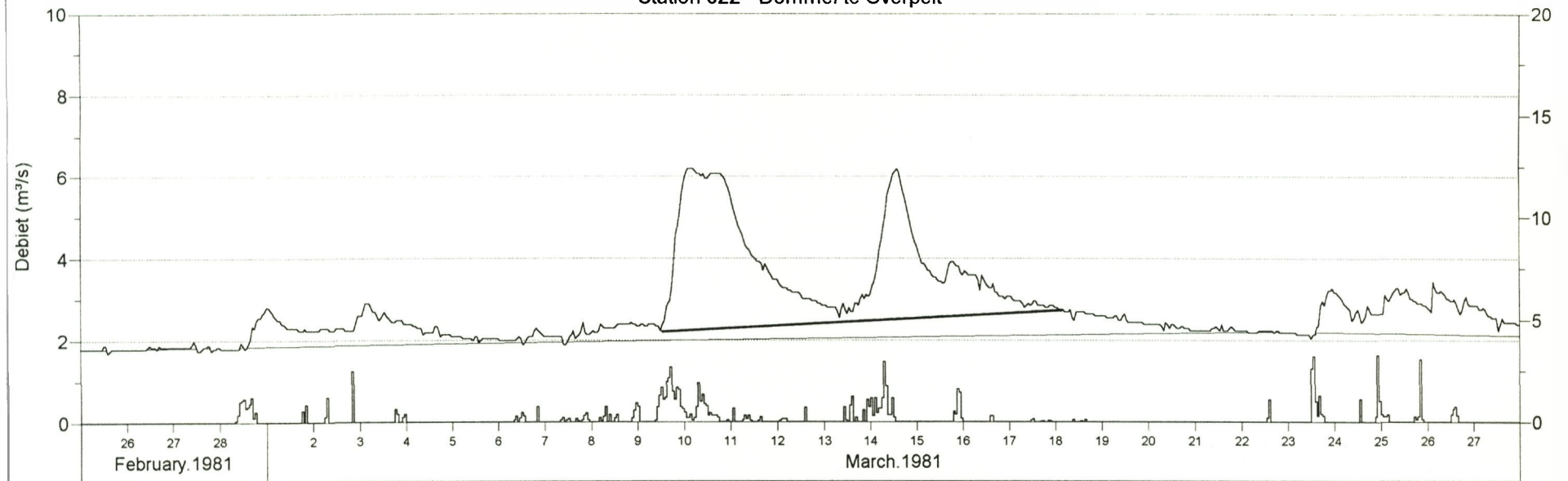
Uurwaarden van neerslag, debiet en basisafvoer

Station 022 - Dommel te Overpelt



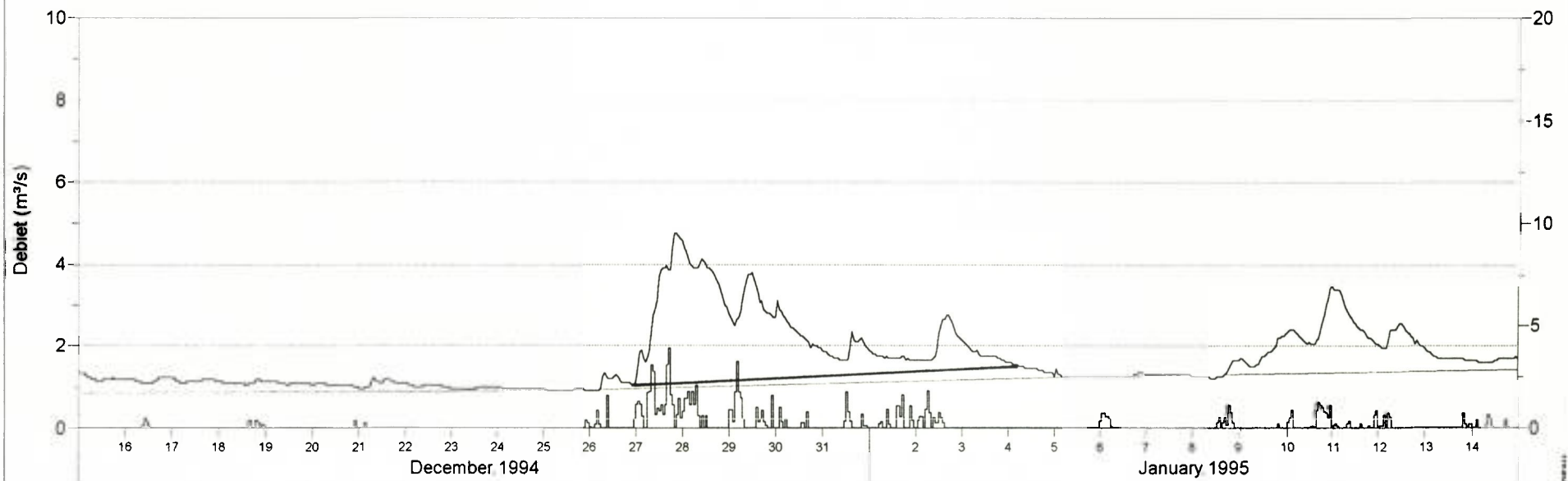
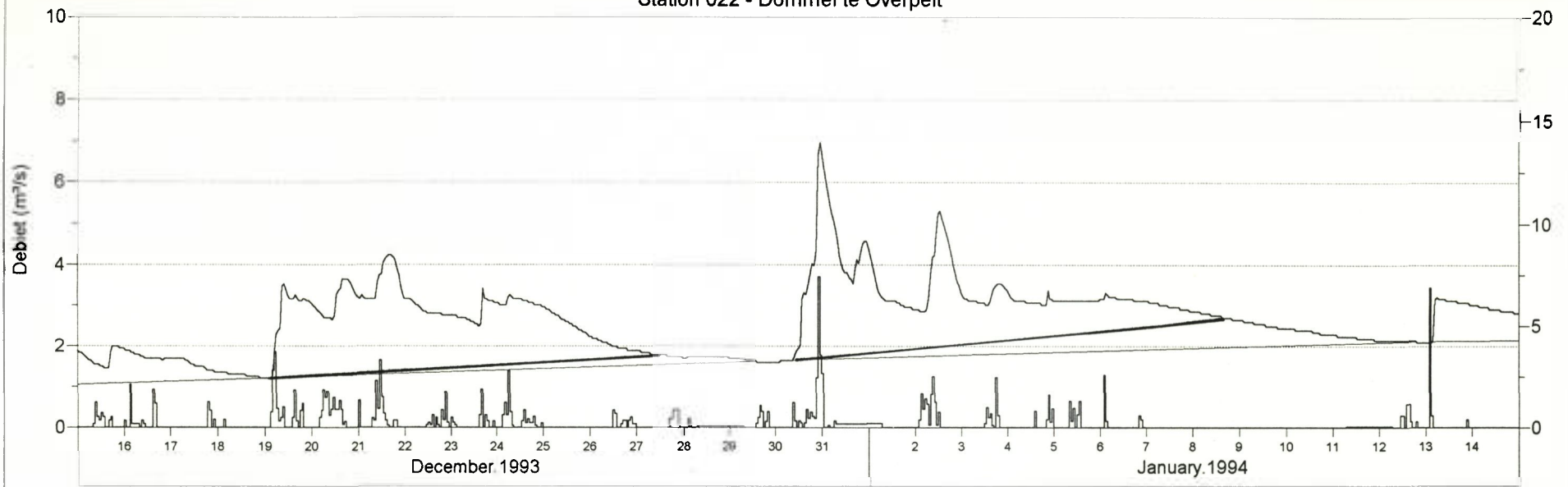
Uurwaarden van neerslag, debiet en basisafvoer

Station 022 - Dommel te Overpelt



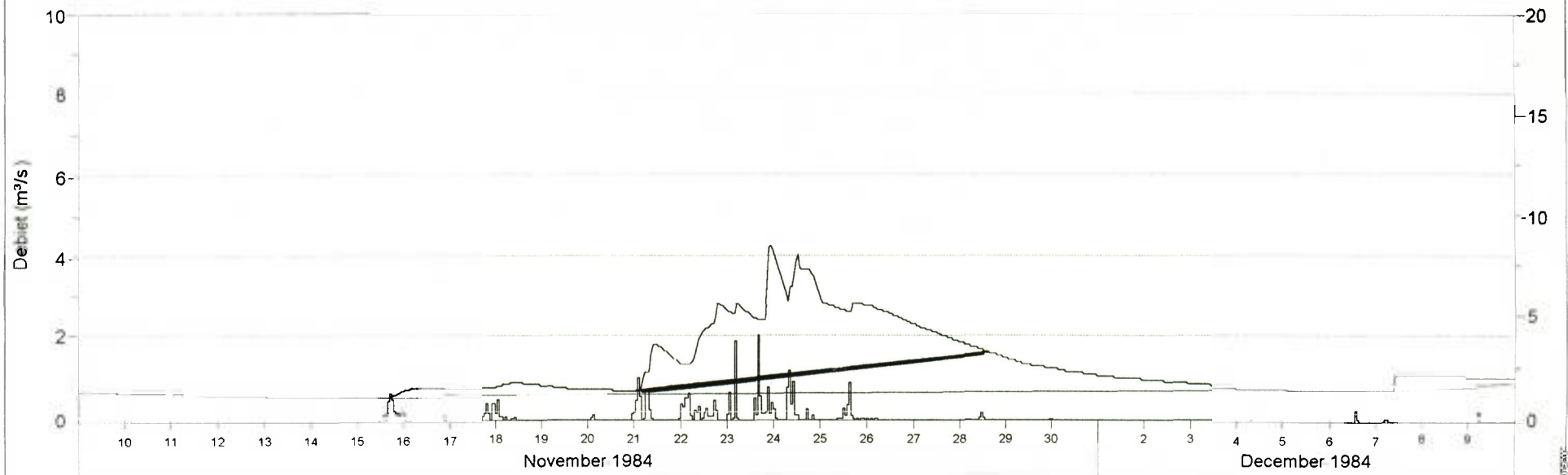
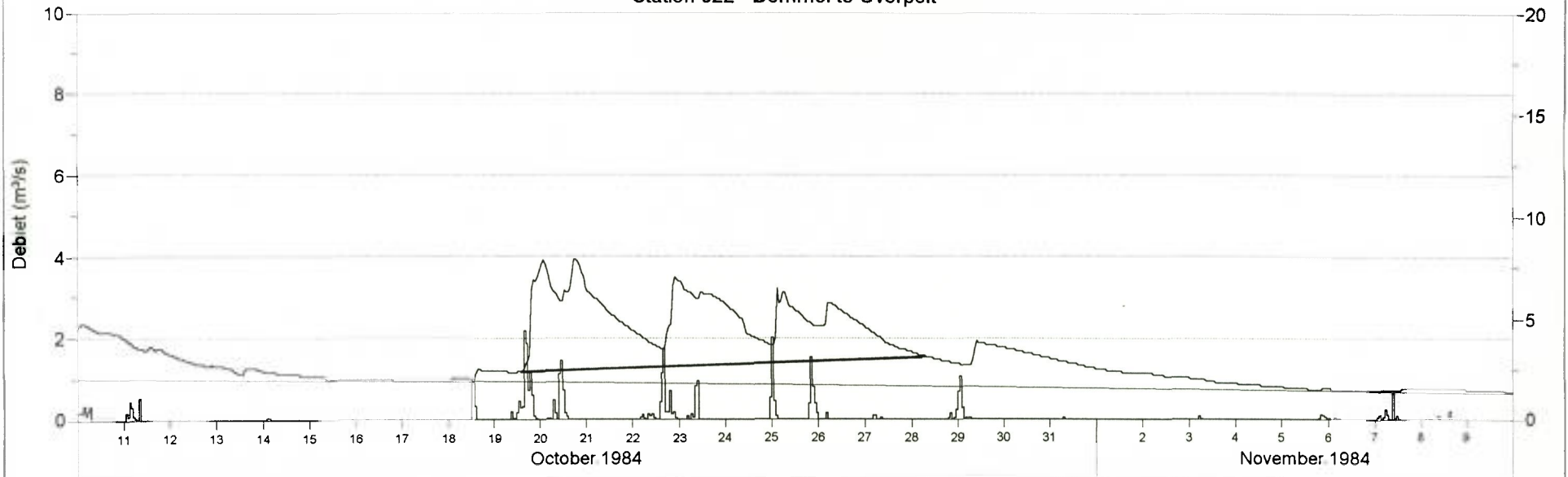
Uurwaarden van neerslag, debiet en basisafvoer

Station 022 - Dommel te Overpelt



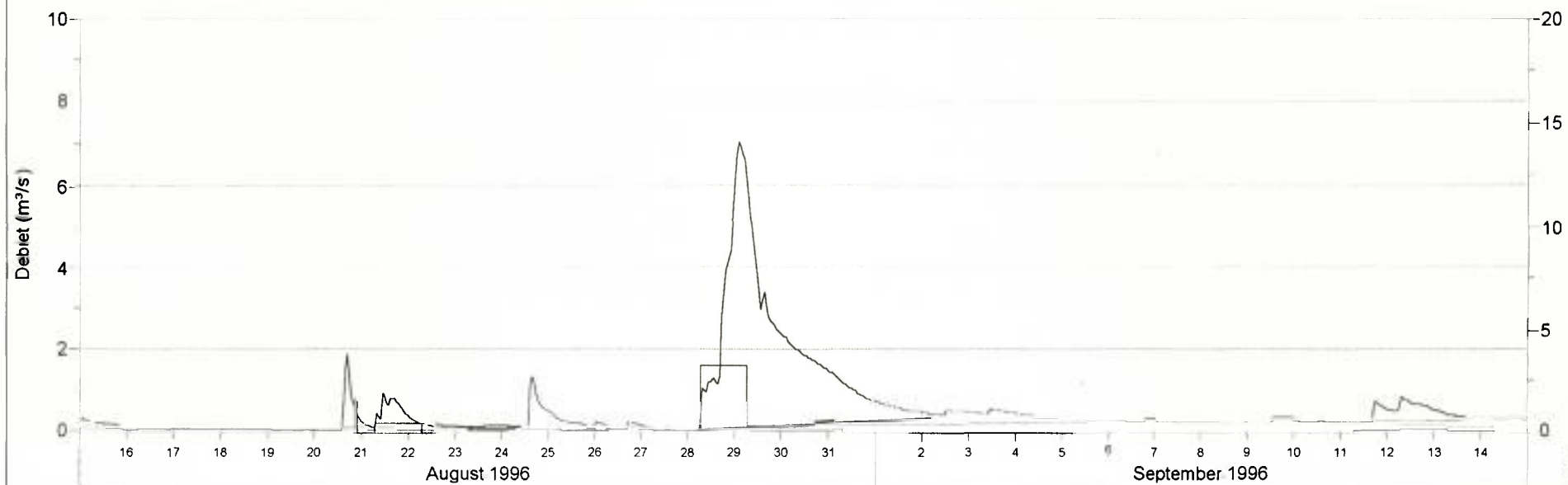
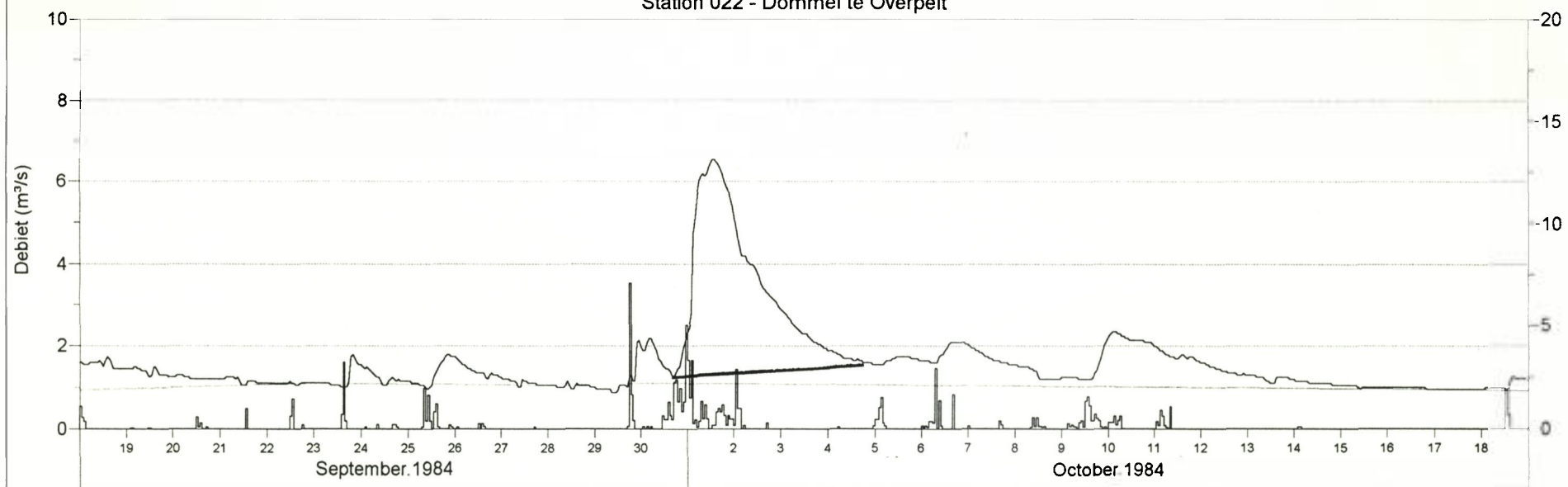
Uurwaarden van neerslag, debiet en basisafvoer

Station 022 - Dommel te Overpelt



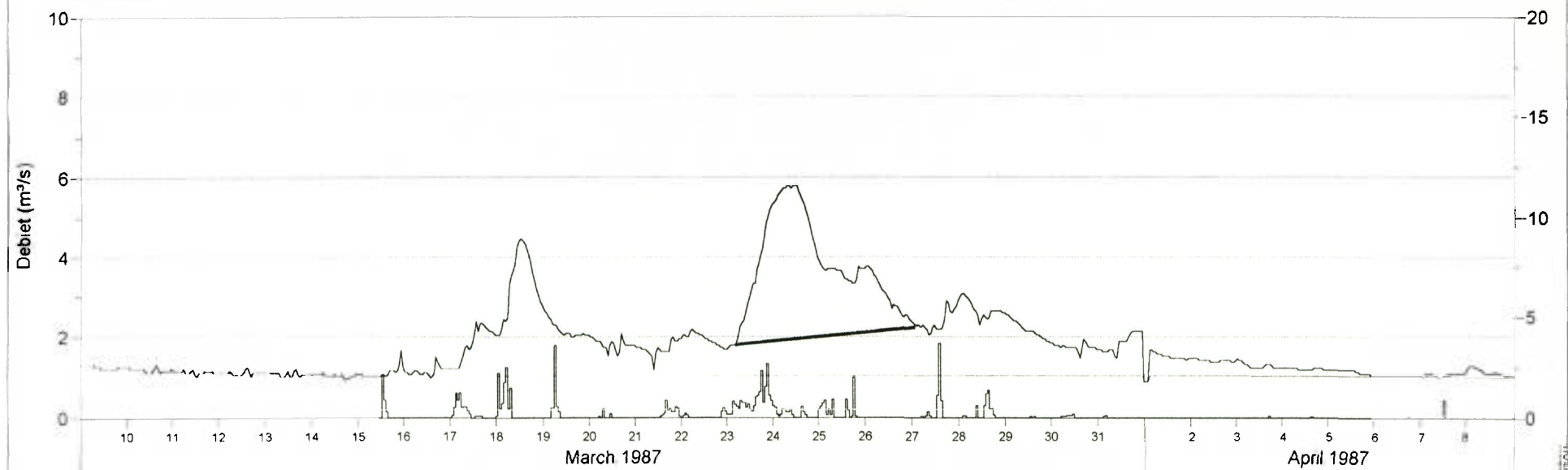
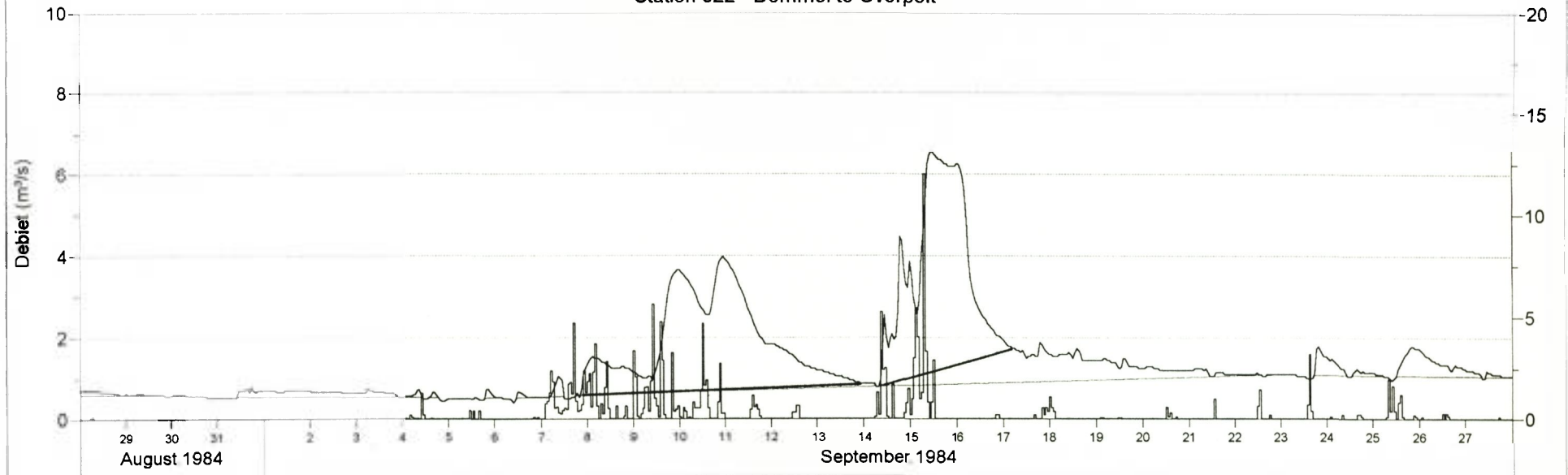
Uurwaarden van neerslag, debiet en basisafvoer

Station 022 - Dommel te Overpelt



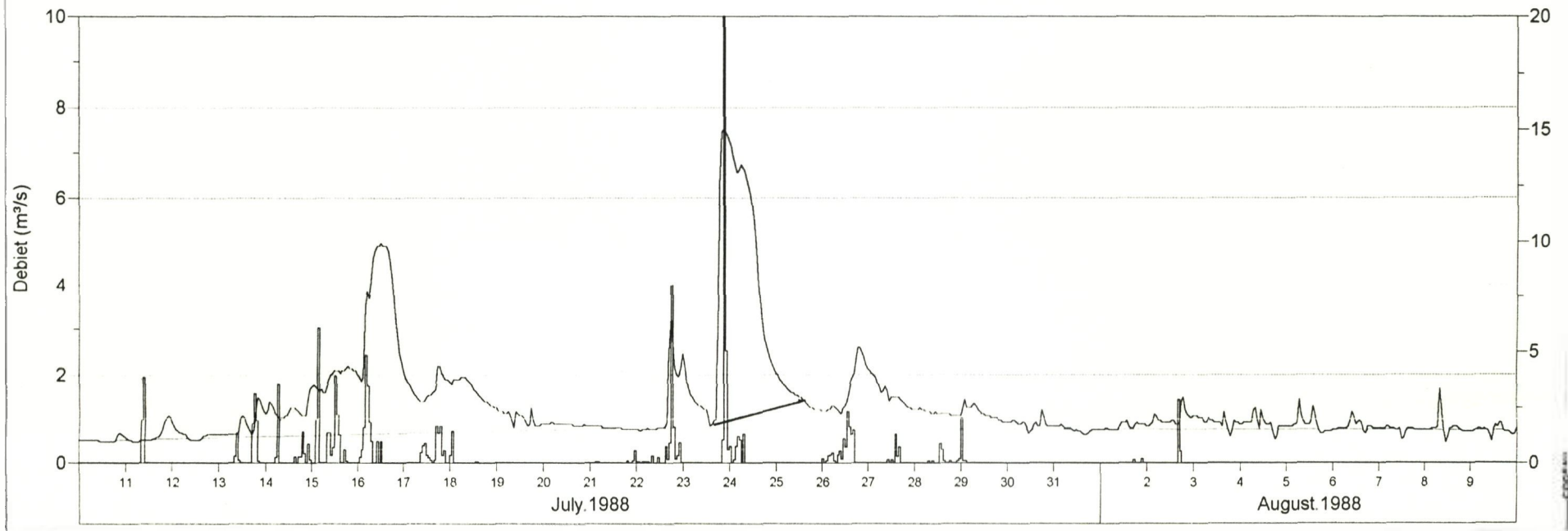
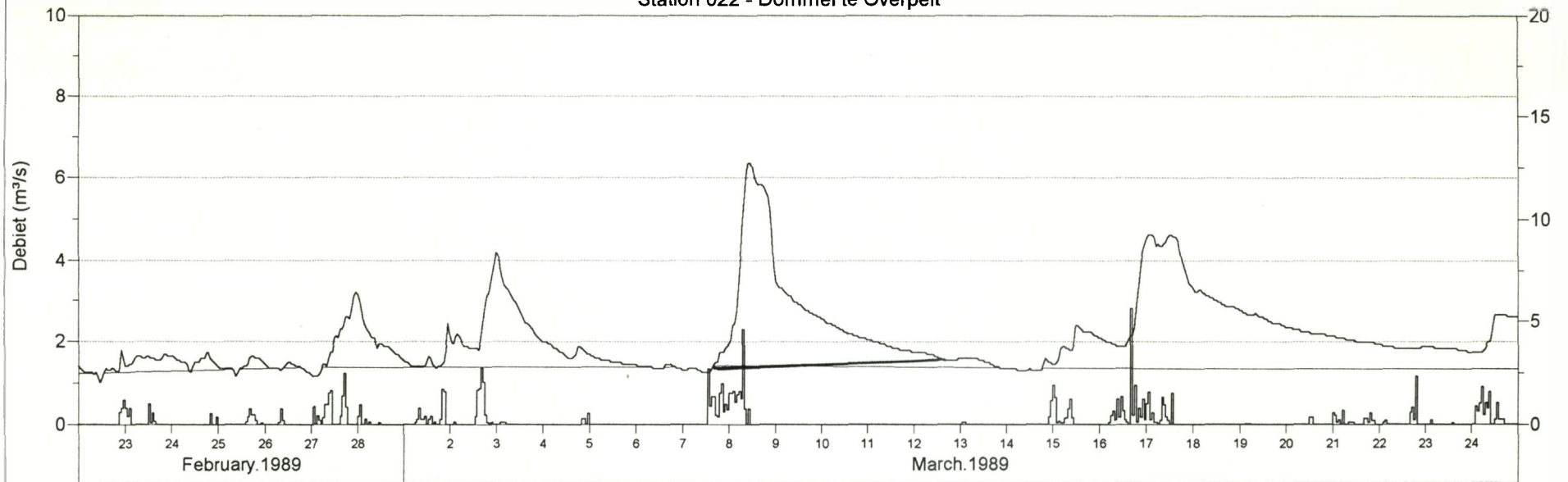
Uurwaarden van neerslag, debiet en basisafvoer

Station 022 - Dommel te Overpelt



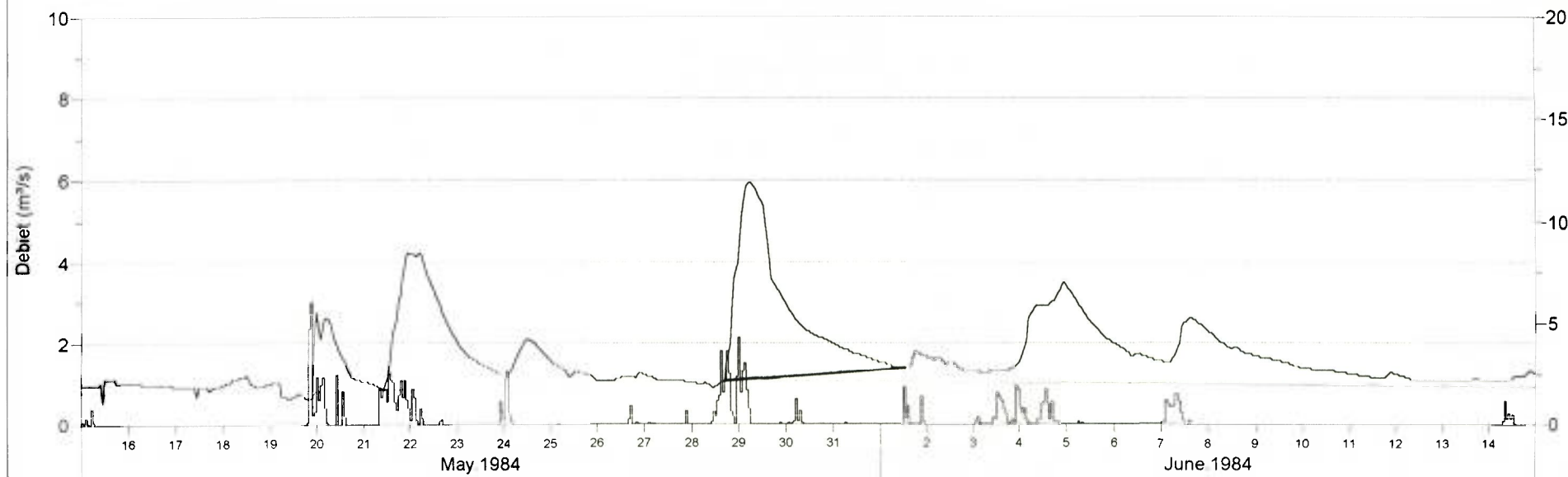
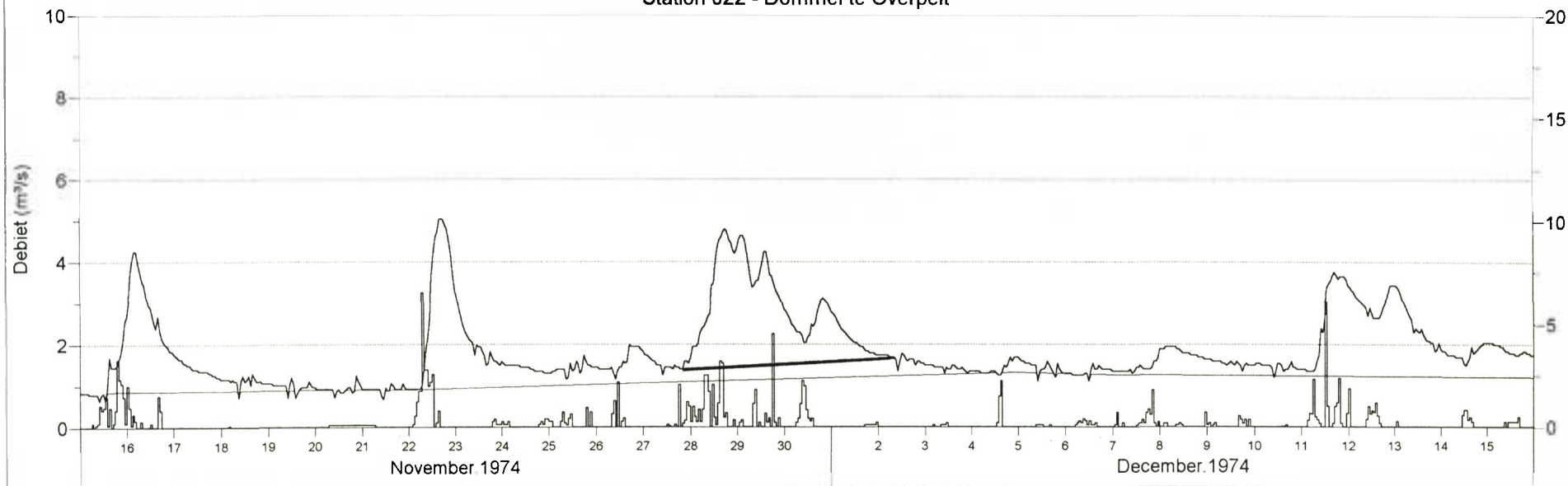
Uurwaarden van neerslag, debiet en basisafvoer

Station 022 - Dommel te Overpelt



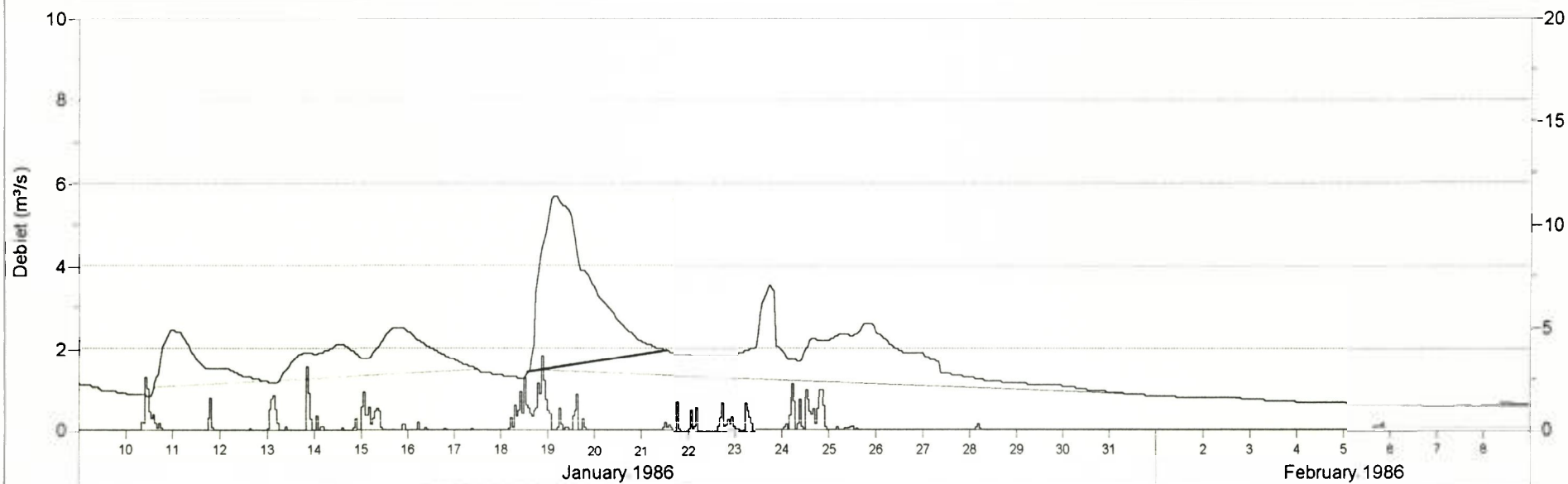
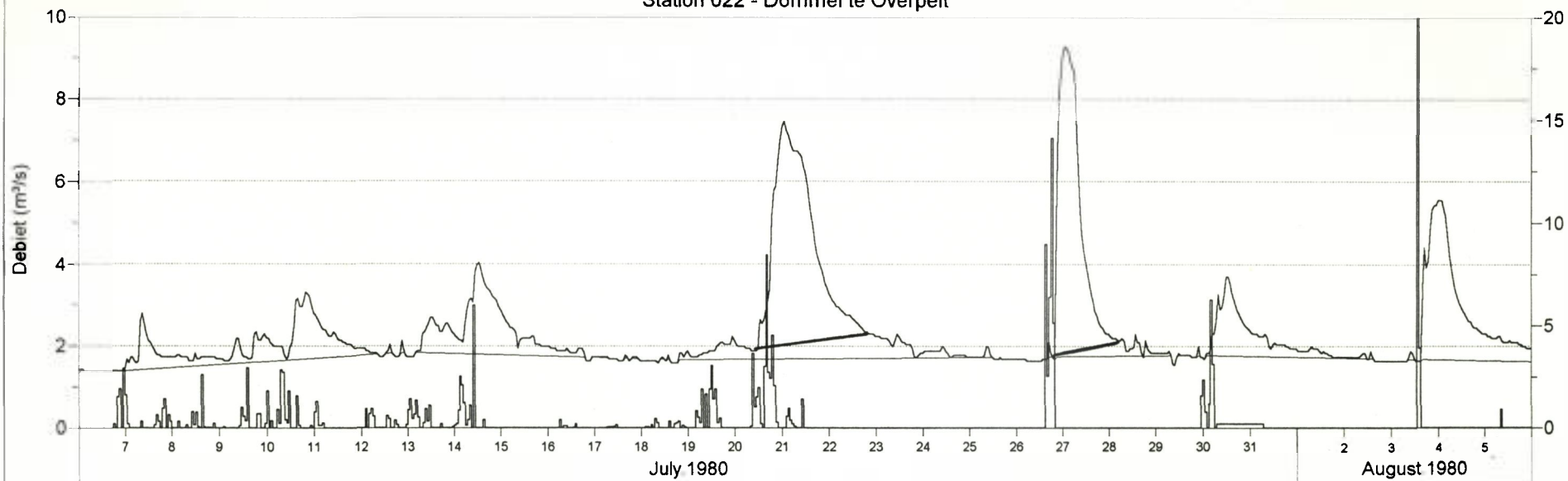
Uurwaarden van neerslag, debiet en basisafvoer

Station 022 - Dommel te Overpelt



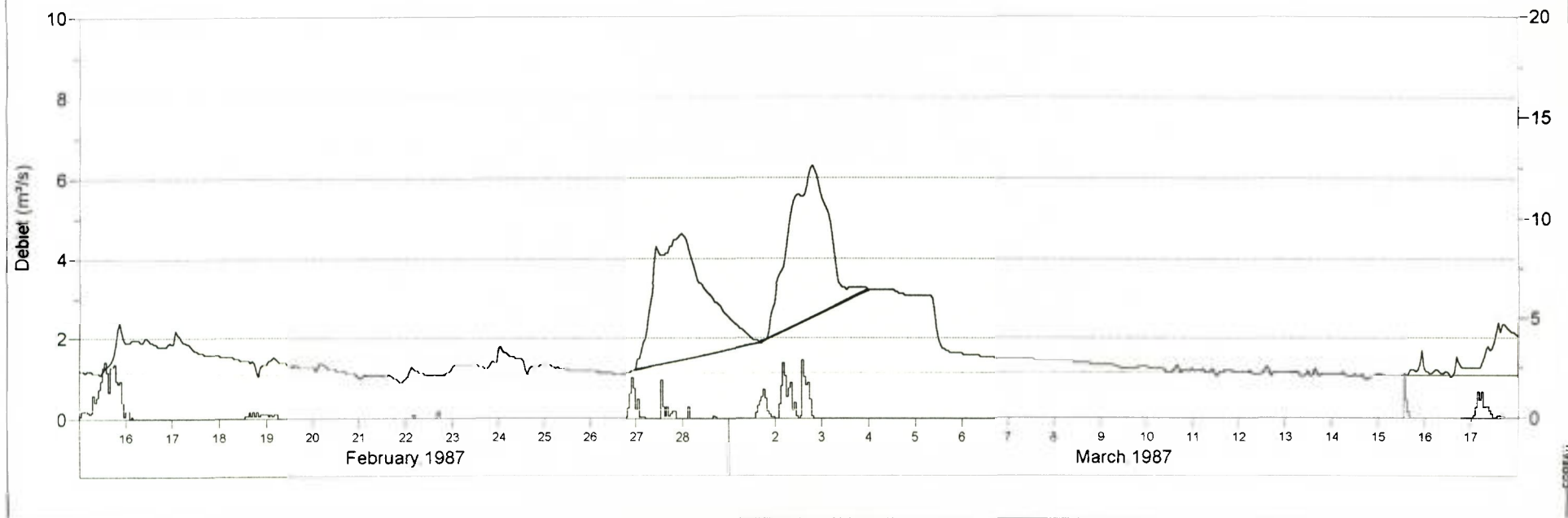
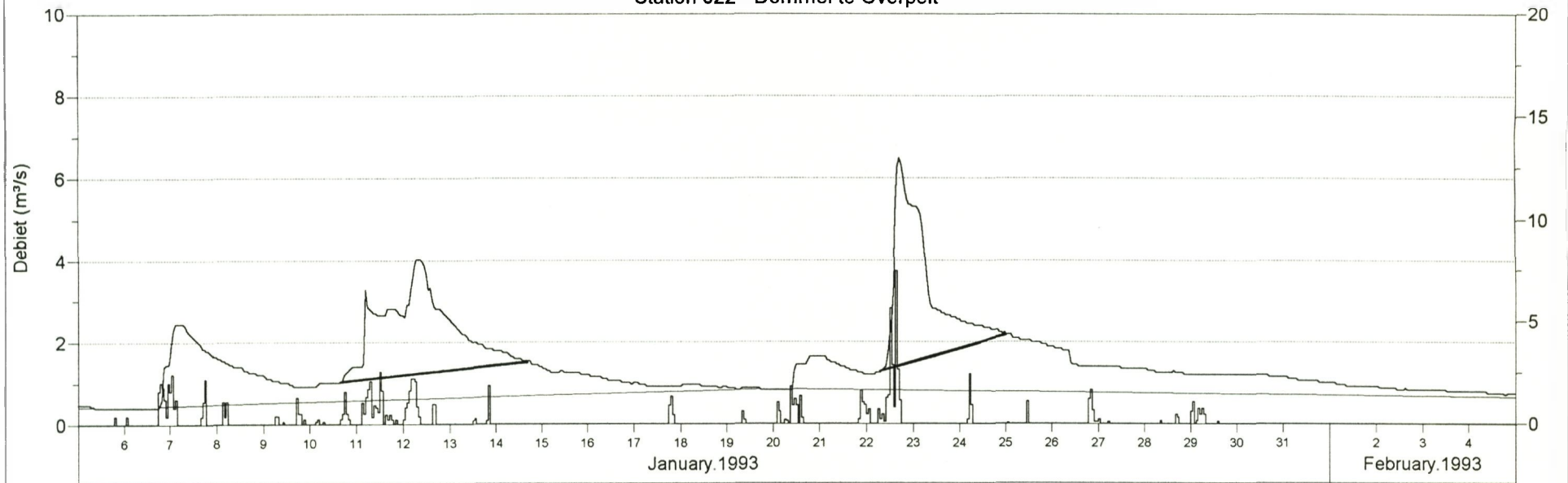
Uurwaarden van neerslag, debiet en basisafvoer

Station 022 - Dommel te Overpelt

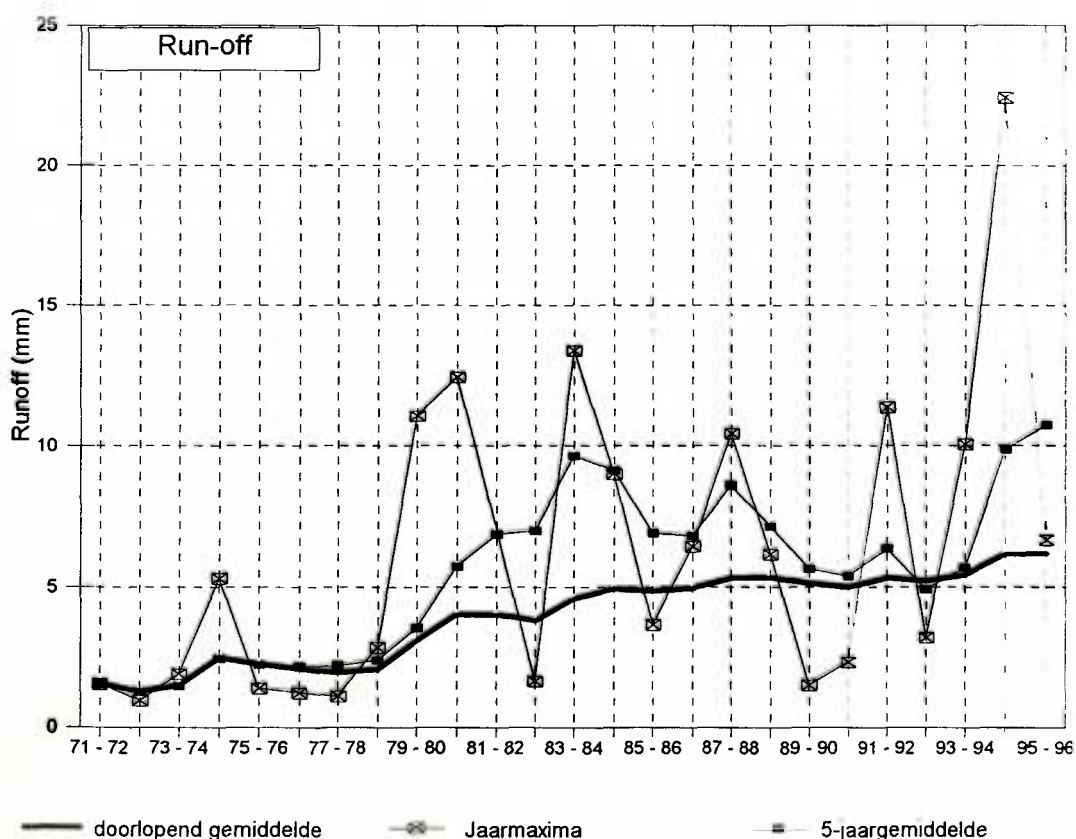
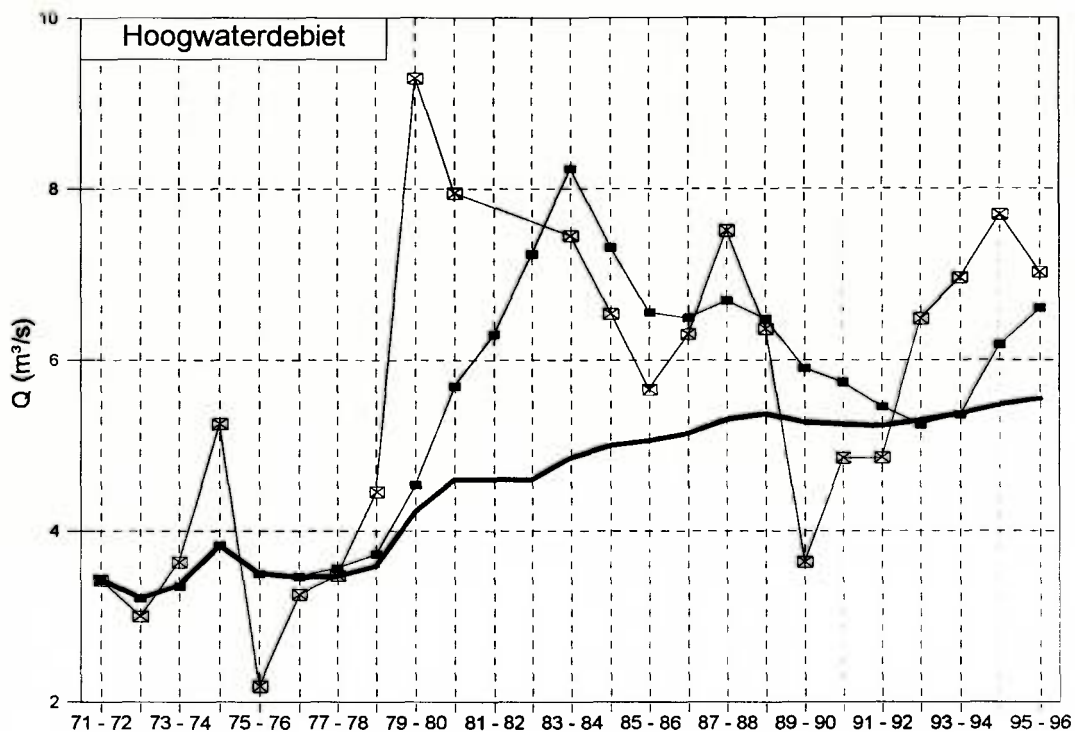


Uurwaarden van neerslag, debiet en basisafvoer

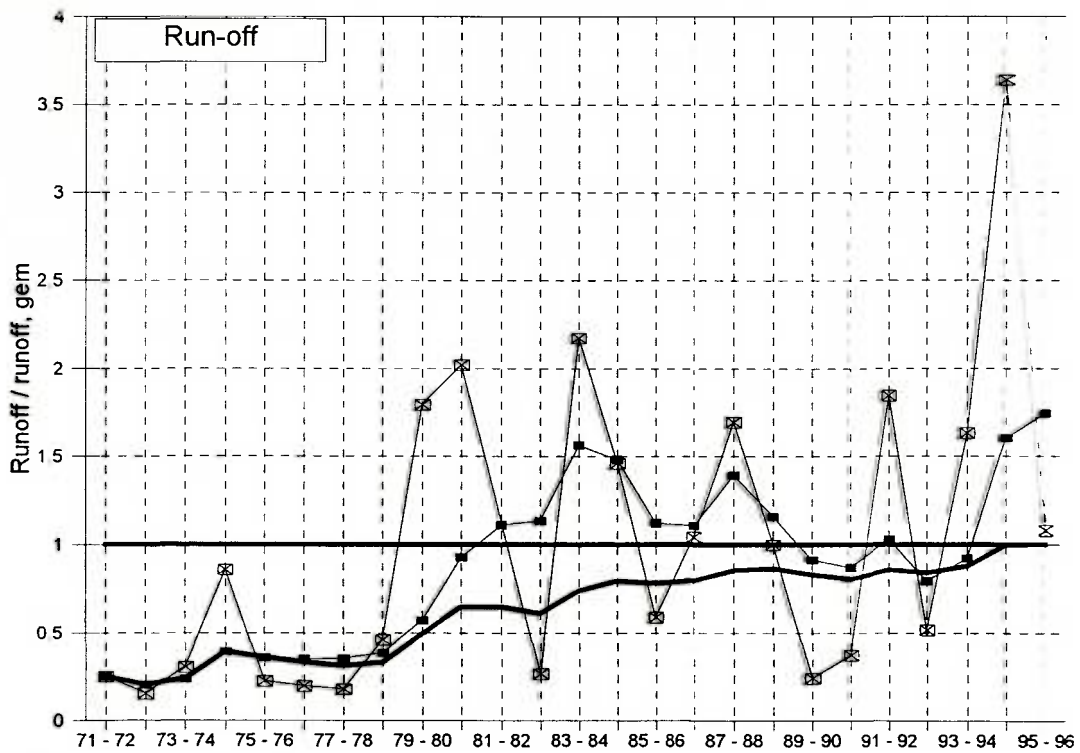
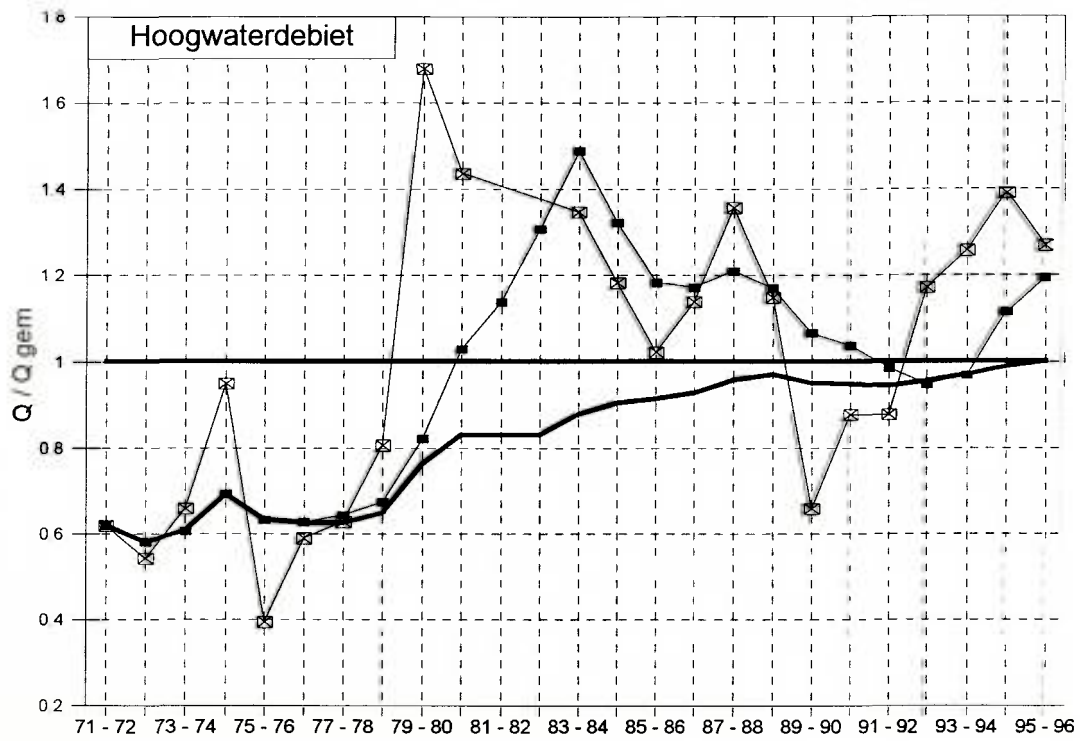
Station 022 - Dommel te Overpelt



Station 022 : Dommel / Overpelt

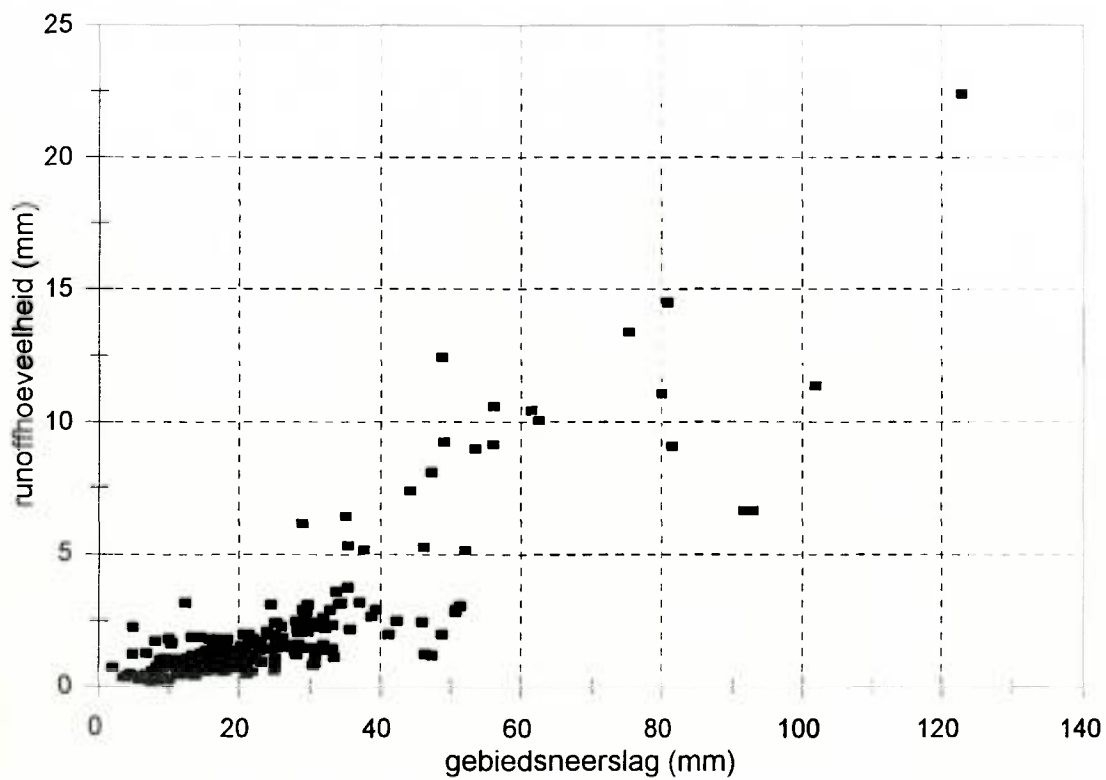
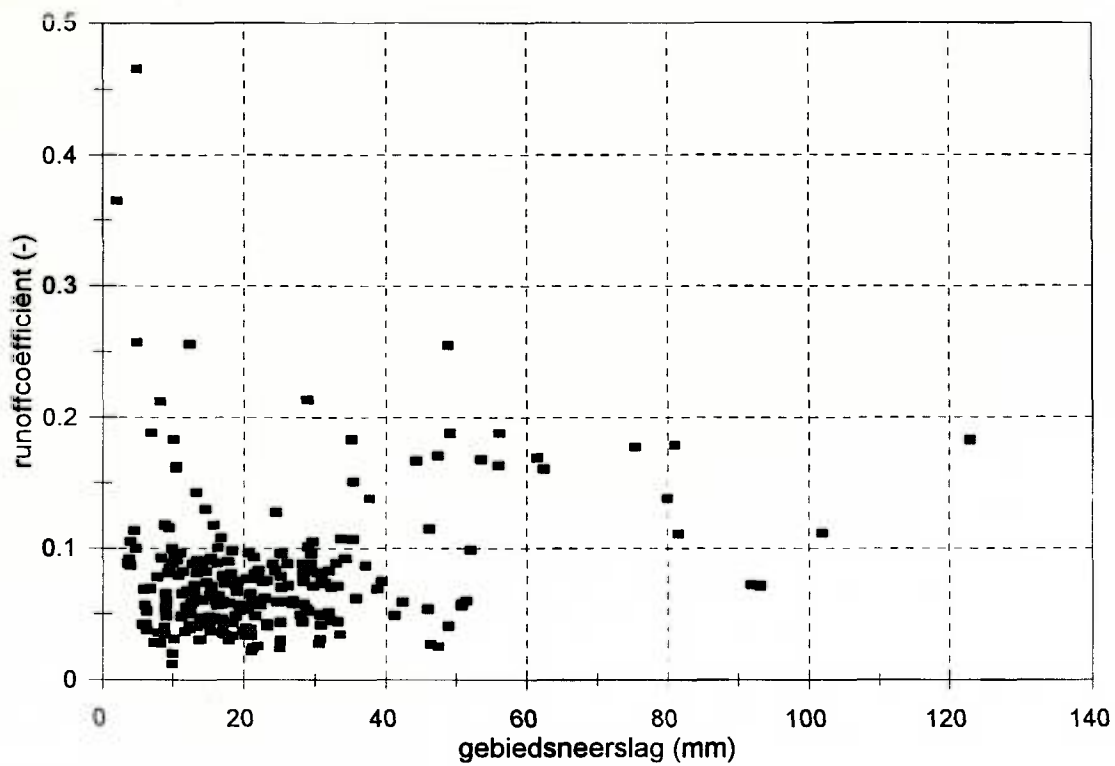


Station 022 : Dommel / Overpelt



— doorlopend gemiddelde —x— Jaarmaxima —■— 5-jaargemiddelde

Station 022 : Dommel / Overpelt

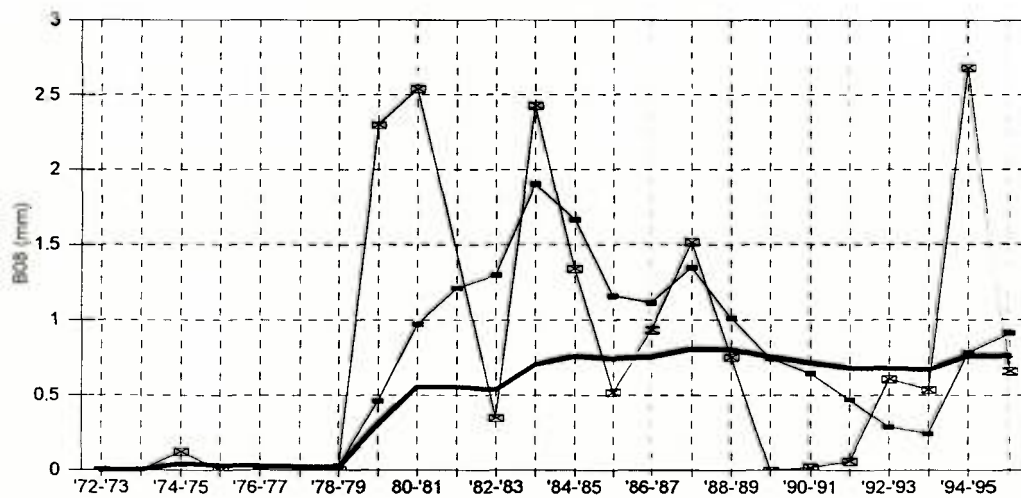
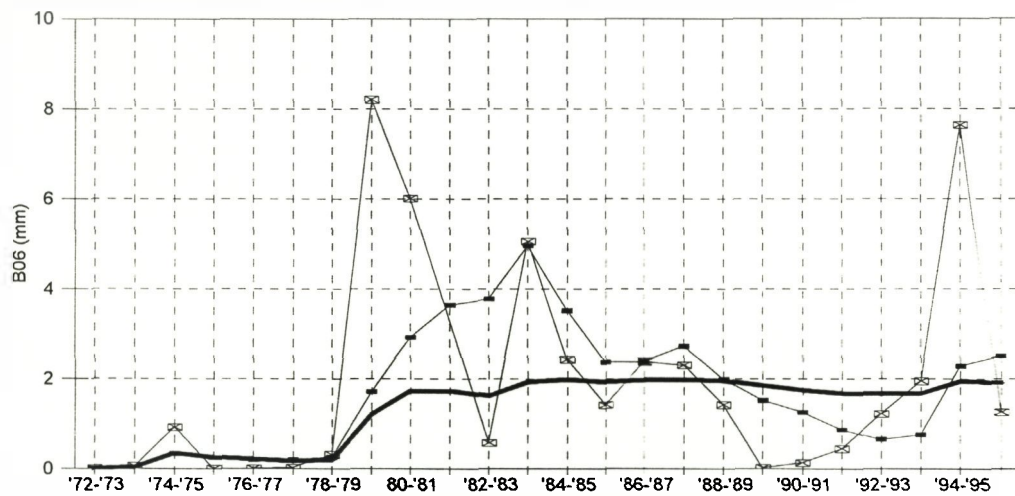
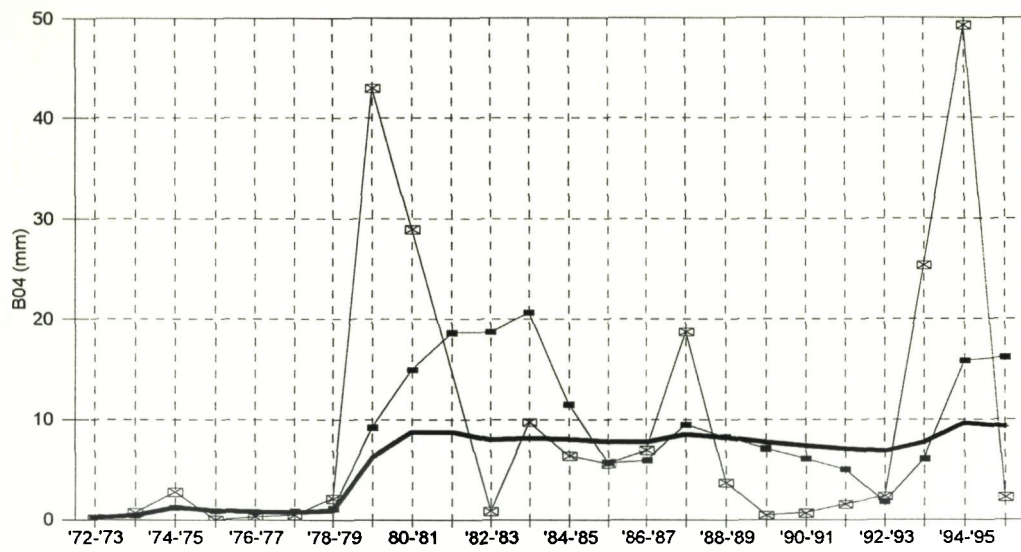


Jaarmaxima van bergingen					
Station 022 : Dommel / Overpelt			Gemiddeld jaarmax. : 5.467 m³/s		
Waterjaar	piekdebiet		berging		
	(m³/s)	datum	(mm)	(uur)	datum
Bergingen boven 0,3 · Q _{gem}					
'71 -'72	3.428	10/07/72	0.76	57	10/07/72
'72 -'73	3.006	13/02/73	0.38	32	13/02/73
'73 -'74	3.641	09/02/74	1.29	110	10/02/74
'74 -'75	5.251	26/12/74	11.04	2193	01/01/75
'75 -'76	2.185	13/02/76	0.11	22	13/02/76
'76 -'77	3.268	18/08/77	0.58	41	18/08/77
'77 -'78	3.481	24/11/77	1.15	100	24/11/77
'78 -'79	4.461	19/03/79	6.81	893	23/03/79
'79 -'80	9.294	27/07/80	96.78	5721	07/08/80
'80 -'81	7.950	15/01/81	66.13	1992	30/03/81
'81 -'82	Werken				
'82 -'83	4.350	30/06/83	1.11	96	01/07/83
'83 -'84	7.452	07/02/84	14.08	1505	14/02/84
'84 -'85	6.540	01/10/84	12.13	1663	28/10/84
'85 -'86	5.538	28/03/86	9.56	938	05/04/86
'86 -'87	6.301	02/03/87	17.92	1702	31/03/87
'87 -'88	7.514	23/07/88	47.28	4743	04/04/88
'88 -'89	6.360	08/03/89	15.05	1954	18/04/89
'89 -'90	3.110	01/03/90	1.35	188	02/03/90
'90 -'91	3.912	29/12/90	2.08	356	05/01/91
'91 -'92	4.853	31/08/92	2.44	266	02/09/92
'92 -'93	6.480	22/01/93	3.85	303	26/01/93
'93 -'94	6.962	30/12/93	56.02	4845	15/04/94
'94 -'95	7.700	30/01/95	91.82	6423	29/04/95
'95 -'96	7.023	29/08/96	3.00	141	30/08/96
Bergingen boven 0,4 · Q _{gem}					
'71 -'72	3.428	10/07/72	0.36	33	10/07/72
'72 -'73	3.006	13/02/73	0.16	16	13/02/73
'73 -'74	3.641	09/02/74	0.72	53	10/02/74
'74 -'75	4.797	28/11/74	2.77	196	01/12/74
'75 -'76			0.00	0	
'76 -'77	3.268	18/08/77	0.31	23	18/08/77
'77 -'78	3.481	24/11/77	0.44	51	24/11/77
'78 -'79	4.461	19/03/79	2.12	317	19/03/79
'79 -'80	6.600	04/02/80	42.99	3700	05/04/80
'80 -'81	7.950	15/01/81	28.92	1992	29/03/81
'81 -'82	Werken				
'82 -'83	7.576	24/06/83	0.85	36	25/06/83
'83 -'84	7.452	07/02/84	9.75	575	11/02/84
'84 -'85	5.888	14/04/85	6.40	309	18/04/85
'85 -'86	5.538	28/03/86	5.61	373	02/04/86
'86 -'87	6.301	02/03/87	6.92	376	05/03/87
'87 -'88	6.360	25/03/88	18.73	1447	01/04/88
'88 -'89	6.360	08/03/89	3.69	601	20/03/89
'89 -'90	3.641	24/01/90	0.47	54	24/01/90
'90 -'91	3.912	29/12/90	0.67	57	30/12/90
'91 -'92	4.853	31/08/92	1.53	99	02/09/92
'92 -'93	6.480	22/01/93	2.34	162	24/01/93
'93 -'94	6.962	30/12/93	25.35	2890	10/02/94
'94 -'95	7.700	30/01/95	49.25	3581	04/04/95
'95 -'96	7.023	29/08/96	2.22	96	30/08/96

Jaarmaxima van bergingen					
Station 022 : Dommel / Overpelt			Gemiddeld jaarmax : 5.467 m³/s		
Waterjaar	piekdebiet (m³/s)	datum	(mm)	berging (uur)	datum
Bergingen boven 0,5 Qgem					
'71 -'72	3.428	10/07/72	0.13	15	10/07/72
'72 -'73	3.006	13/02/73	0.03	5	13/02/73
'73 -'74	3.641	09/02/74	0.32	30	10/02/74
'74 -'75	4.797	28/11/74	1.60	111	30/11/74
'75 -'76			0.00	0	
'76 -'77	3.216	18/08/77	0.08	9	18/08/77
'77 -'78	3.481	24/11/77	0.19	16	24/11/77
'78 -'79	4.021	15/03/79	1.09	83	16/03/79
'79 -'80	6.600	04/02/80	16.87	1872	14/03/80
'80 -'81	7.950	15/01/81	8.52	776	21/01/81
'81 -'82	Werken				
'82 -'83	7.576	24/06/83	0.70	23	24/06/83
'83 -'84	7.452	07/02/84	6.78	297	10/02/84
'84 -'85	5.888	14/04/85	3.92	219	16/04/85
'85 -'86	5.538	28/03/86	3.15	237	01/04/86
'86 -'87	6.301	02/03/87	4.16	244	05/03/87
'87 -'88	6.360	25/03/88	7.84	695	31/03/88
'88 -'89	6.360	08/03/89	1.97	114	09/03/89
'89 -'90	3.641	24/01/90	0.17	22	24/01/90
'90 -'91	3.912	29/12/90	0.32	30	30/12/90
'91 -'92	4.853	31/08/92	0.89	61	01/09/92
'92 -'93	6.480	22/01/93	1.58	99	23/01/93
'93 -'94	6.962	30/12/93	5.10	1093	08/01/94
'94 -'95	7.700	30/01/95	26.22	2260	09/03/95
'95 -'96	7.023	29/08/96	1.67	71	29/08/96
Bergingen boven 0,6 Qgem					
'71 -'72	3.428	10/07/72	0.01	4	10/07/72
'72 -'73			0.00	0	
'73 -'74	3.641	09/02/74	0.05	14	09/02/74
'74 -'75	4.797	28/11/74	0.92	71	29/11/74
'75 -'76			0.00	0	
'76 -'77			0.00	0	
'77 -'78	3.481	24/11/77	0.03	9	24/11/77
'78 -'79	4.021	15/03/79	0.31	50	15/03/79
'79 -'80	6.600	04/02/80	8.20	868	09/02/80
'80 -'81	7.950	15/01/81	6.01	327	19/01/81
'81 -'82	Werken				
'82 -'83	7.576	24/06/83	0.57	16	24/06/83
'83 -'84	7.452	07/02/84	5.05	209	09/02/84
'84 -'85	6.540	01/10/84	2.42	97	02/10/84
'85 -'86	5.654	19/01/86	1.42	75	20/01/86
'86 -'87	5.771	24/03/87	2.38	152	26/03/87
'87 -'88	7.514	23/07/88	2.30	61	24/07/88
'88 -'89	6.360	08/03/89	1.43	73	09/03/89
'89 -'90	3.641	24/01/90	0.02	5	24/01/90
'90 -'91	4.853	07/08/91	0.13	11	08/08/91
'91 -'92	4.853	31/08/92	0.44	39	01/09/92
'92 -'93	6.480	22/01/93	1.22	61	23/01/93
'93 -'94	6.962	30/12/93	1.95	256	03/01/94
'94 -'95	7.700	30/01/95	7.63	1180	27/02/95
'95 -'96	7.023	29/08/96	1.26	51	29/08/96

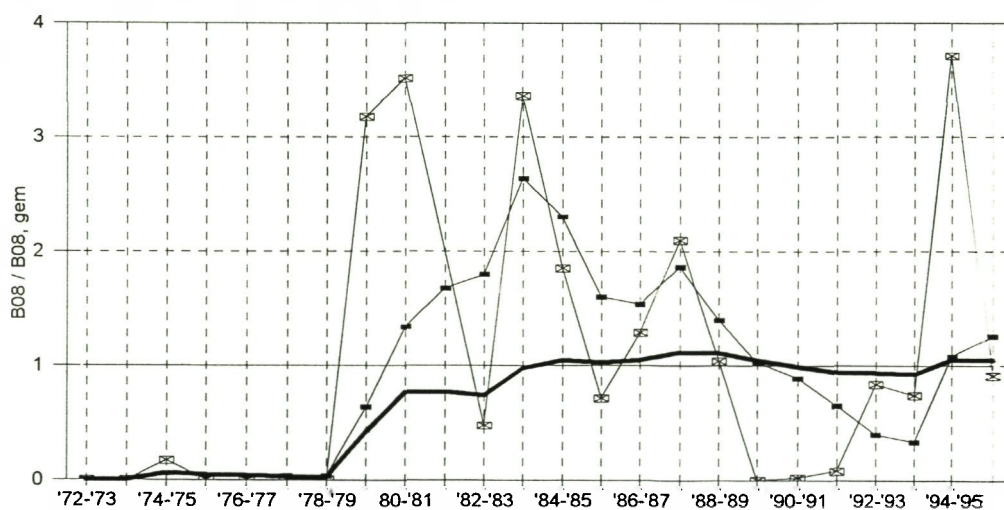
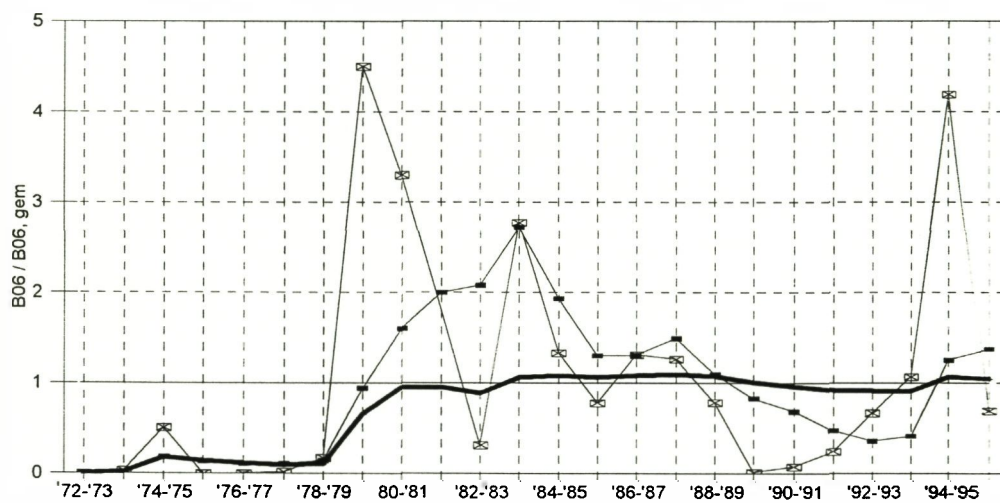
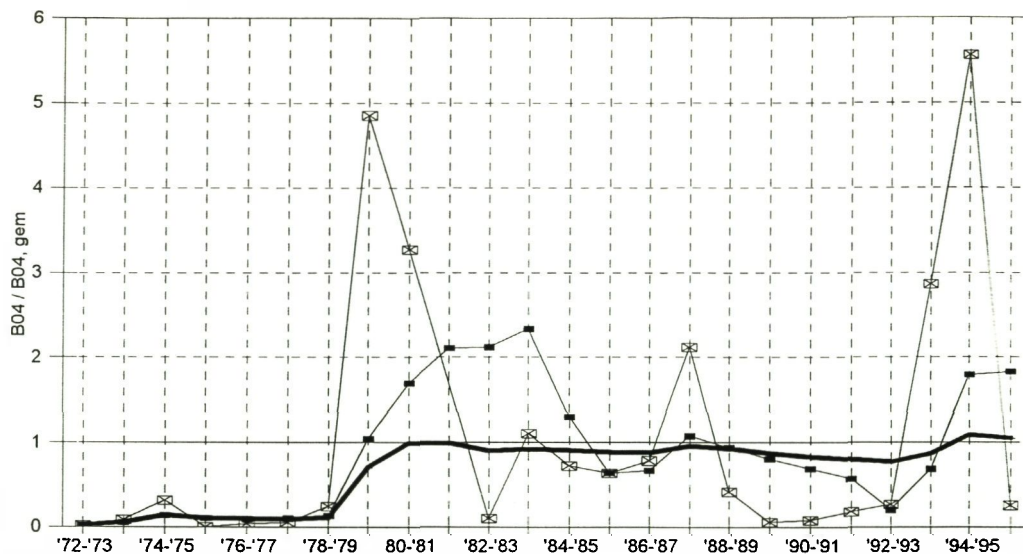
Jaarmaxima van bergingen					
Station 022 : Dommel / Overpelt			Gemiddeld jaarmax. : 5.467 m³/s		
Waterjaar	piekdebiet		berging		
	(m³/s)	datum	(mm)	(uur)	datum
Bergingen boven 0,7 Qgem					
'71 -'72			0.00	0	
'72 -'73			0.00	0	
'73 -'74			0.00	0	
'74 -'75	4.797	28/11/74	0.37	39	29/11/74
'75 -'76			0.00	0	
'76 -'77			0.00	0	
'77 -'78			0.00	0	
'78 -'79	4.461	19/03/79	0.09	11	19/03/79
'79 -'80	6.600	04/02/80	4.68	317	08/02/80
'80 -'81	7.950	15/01/81	4.19	211	18/01/81
'81 -'82	Werken				
'82 -'83	7.576	24/06/83	0.45	12	24/06/83
'83 -'84	7.452	07/02/84	3.64	155	09/02/84
'84 -'85	6.540	15/09/84	1.78	55	16/09/84
'85 -'86	5.654	19/01/86	0.89	51	19/01/86
'86 -'87	5.771	24/03/87	1.43	88	25/03/87
'87 -'88	7.514	23/07/88	1.90	48	24/07/88
'88 -'89	6.360	08/03/89	1.07	48	08/03/89
'89 -'90			0.00	0	
'90 -'91	4.853	07/08/91	0.05	3	08/08/91
'91 -'92	4.853	31/08/92	0.22	19	01/09/92
'92 -'93	6.480	22/01/93	0.90	38	23/01/93
'93 -'94	6.962	30/12/93	0.92	99	01/01/94
'94 -'95	7.700	30/01/95	4.38	247	31/01/95
'95 -'96	7.023	29/08/96	0.93	37	29/08/96
Bergingen boven 0,8 Qgem					
'71 -'72			0.00	0	
'72 -'73			0.00	0	
'73 -'74			0.00	0	
'74 -'75	5.023	22/11/74	0.12	11	22/11/74
'75 -'76			0.00	0	
'76 -'77			0.00	0	
'77 -'78			0.00	0	
'78 -'79	4.461	19/03/79	0.00	1	19/03/79
'79 -'80	6.600	04/02/80	2.30	193	07/02/80
'80 -'81	7.950	15/01/81	2.54	149	18/01/81
'81 -'82	Werken				
'82 -'83	7.576	24/06/83	0.35	10	24/06/83
'83 -'84	7.452	07/02/84	2.43	116	09/02/84
'84 -'85	6.540	15/09/84	1.34	42	16/09/84
'85 -'86	5.654	19/01/86	0.52	34	19/01/86
'86 -'87	6.301	02/03/87	0.93	48	03/03/87
'87 -'88	7.514	23/07/88	1.52	39	24/07/88
'88 -'89	6.360	08/03/89	0.75	32	08/03/89
'89 -'90			0.00	0	
'90 -'91	4.853	07/08/91	0.02	1	07/08/91
'91 -'92	4.853	31/08/92	0.06	10	01/09/92
'92 -'93	6.480	22/01/93	0.60	26	23/01/93
'93 -'94	6.962	30/12/93	0.53	37	31/12/93
'94 -'95	7.700	30/01/95	2.68	142	30/01/95
'95 -'96	7.023	29/08/96	0.66	25	29/08/96

Station 022 : Dommel / Overpelt



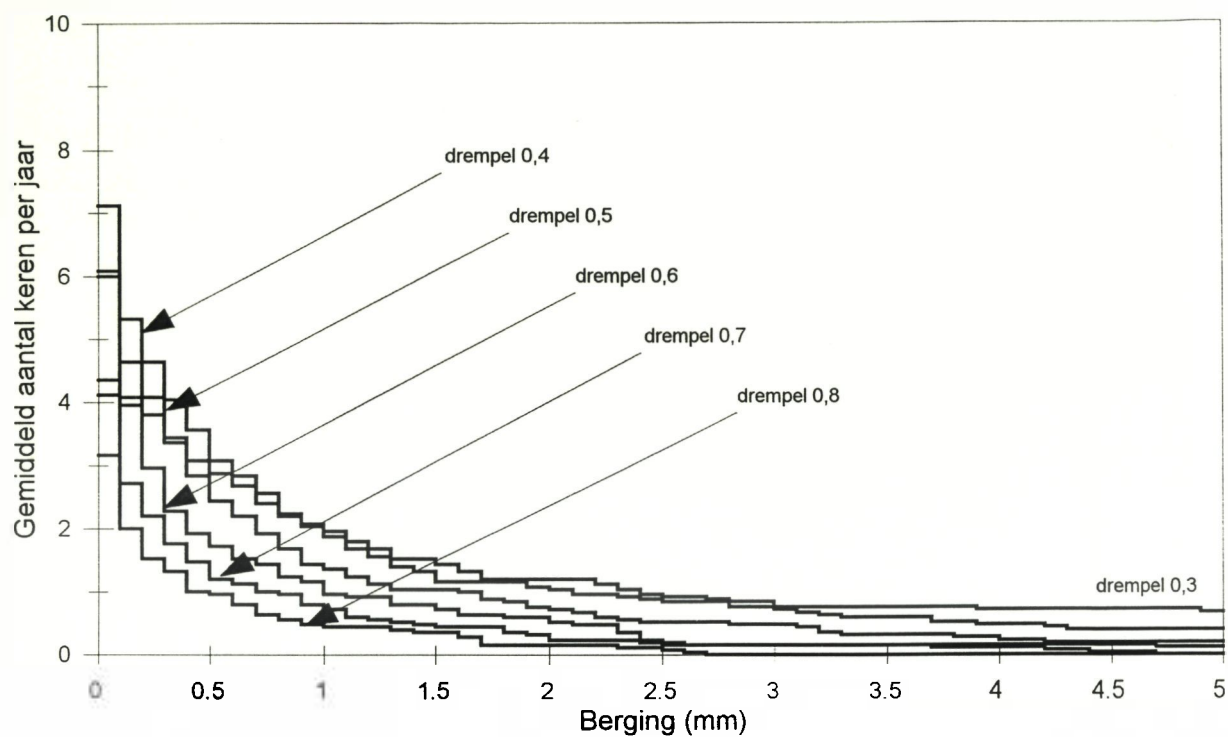
— doorlopend gemiddelde —□— Jaarmaxima —■— 5-jaargemiddelde

Station 022 : Dommel / Overpelt

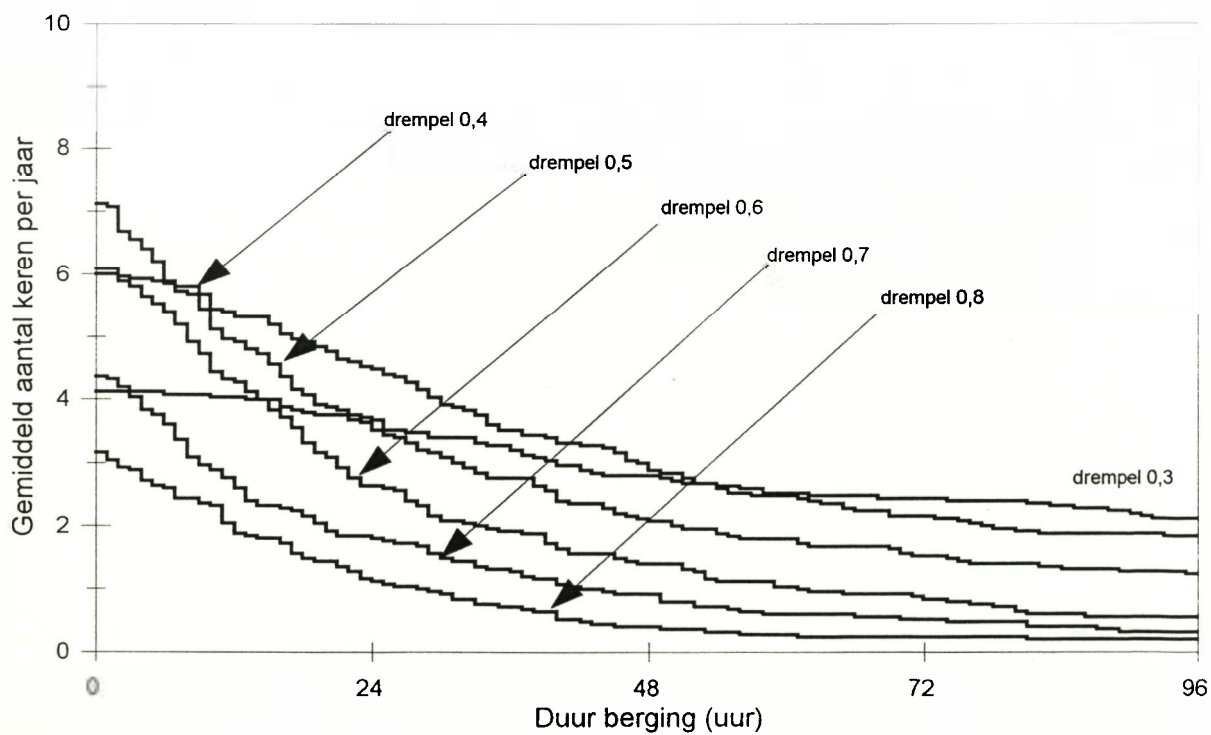


— doorlopend gemiddelde —□— Jaarmaxima —■— 5-jaargemiddelde

Station 022 - Dommel te Overpelt



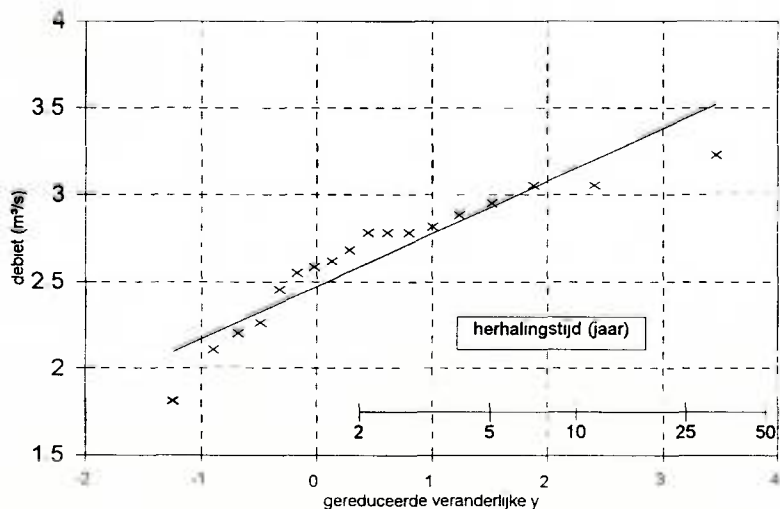
Station 022 - Dommel te Overpelt



3. Station 024
De Warmbeek
te Achel

Station nr. 024 : Warmbeek te Hamont Achel

Nr.	Waterjaar	Datum	Hoogte (cm)	Debiet (m³/s)
1	'90 - '91	29/12/90	85	1 812
2	'89 - '90	1/03/90	95	2 110
3	'91 - '92	21/12/91	98	2 202
4	'81 - '82	15/12/81	142-42	2 264
5	'78 - '79	15/03/79	148-42	2 454
6	'92 - '93	23/01/93	109	2 551
7	'88 - '89	8/03/89	110	2 584
8	'85 - '86	19/01/86	111	2 617
9	'82 - '83	26/05/83	155-42	2 682
10	'79 - '80	21/07/80	158-42	2 782
11	'95 - '96	29/08/96	116	2 782
12	'80 - '81	15/01/81	158-42	2 782
13	'87 - '88	24/07/88	117	2 816
14	'86 - '87	2/01/87	119	2 883
15	'83 - '84	7/02/84	163-42	2 952
16	'84 - '85	2/10/84	166-42	3 055
17	'93 - '94	31/12/93	124	3 055
18	'94 - '95	30/01/95	129	3 230



Herhalingstijd (jaar)	Debiet (m³/s)	Spec. afvoer (l/s.ha)
2	2.581	0.31
5	2.925	0.35
10	3.152	0.38
25	3.439	0.41
50	3.652	0.44

Station 024 : Warmbeek te Achel

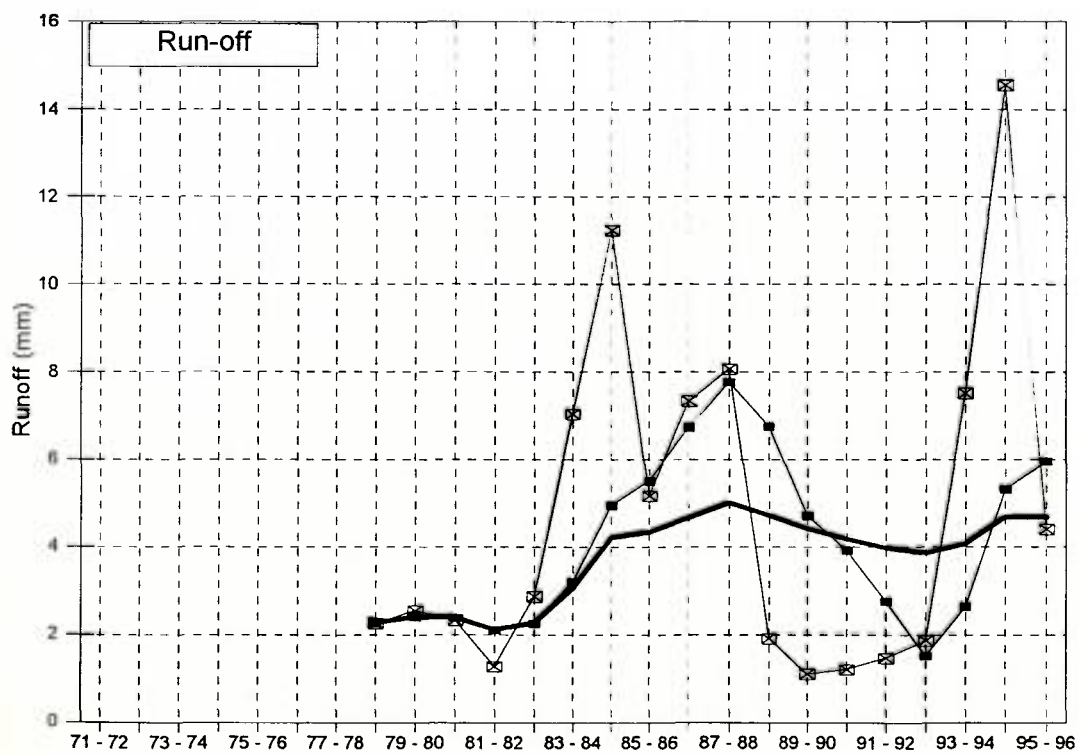
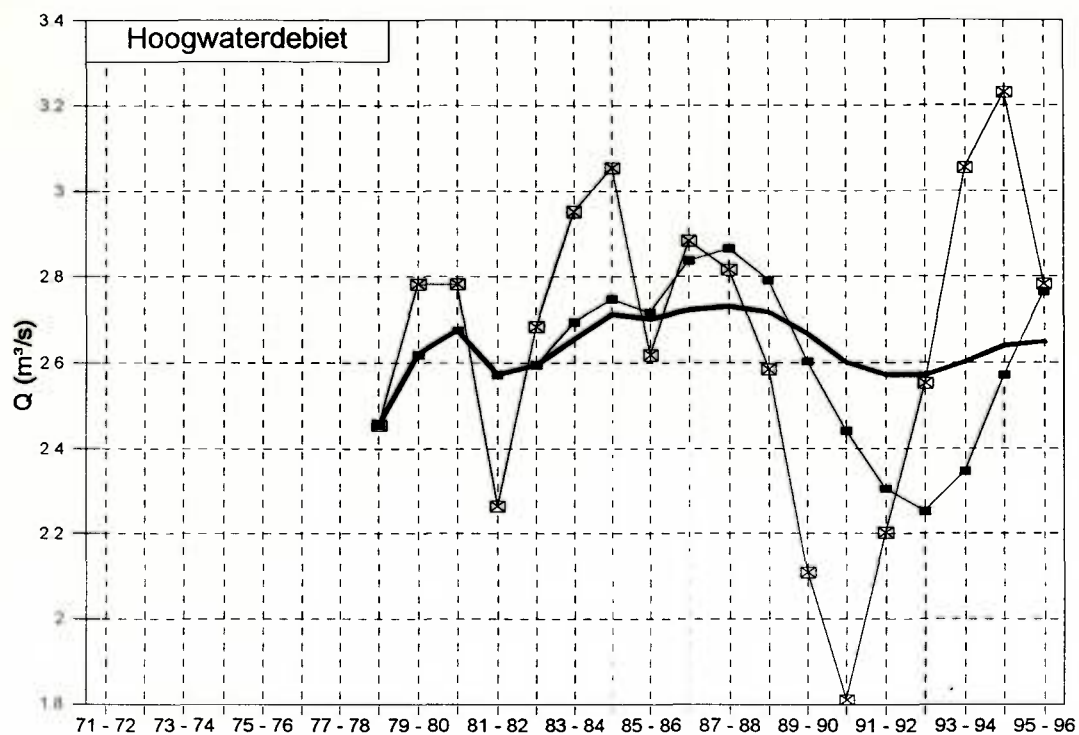
Runoffhoeveelheden

Stroomgebied = 8391 ha

Tijdreeks : 1978 - '96

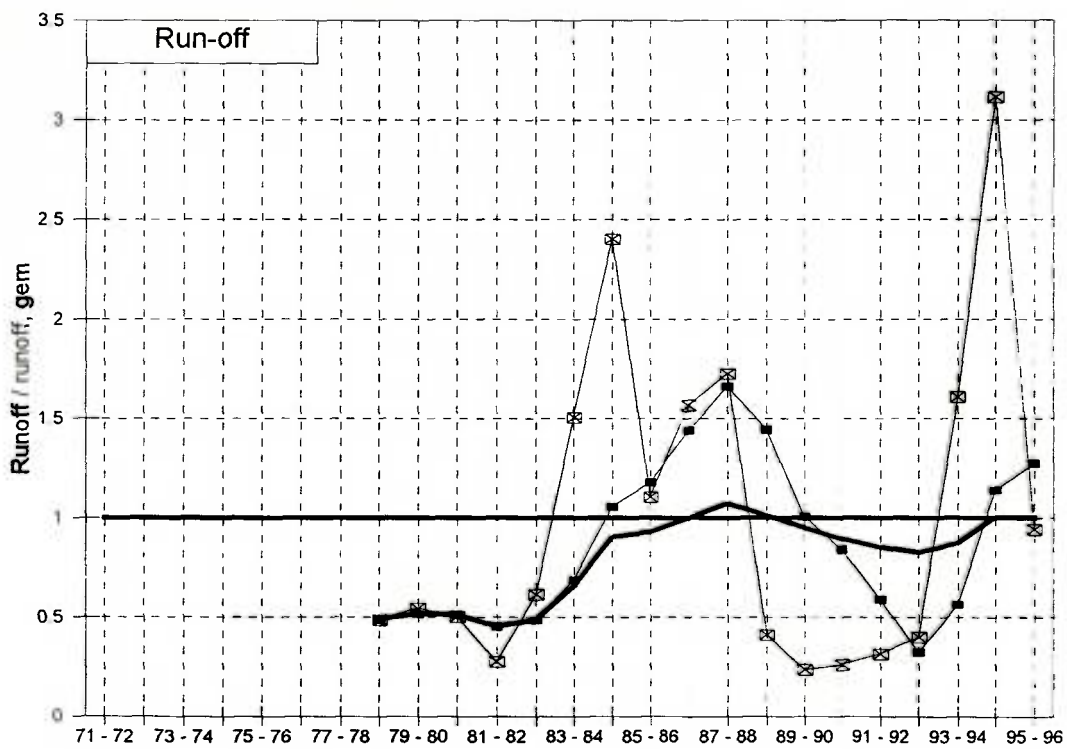
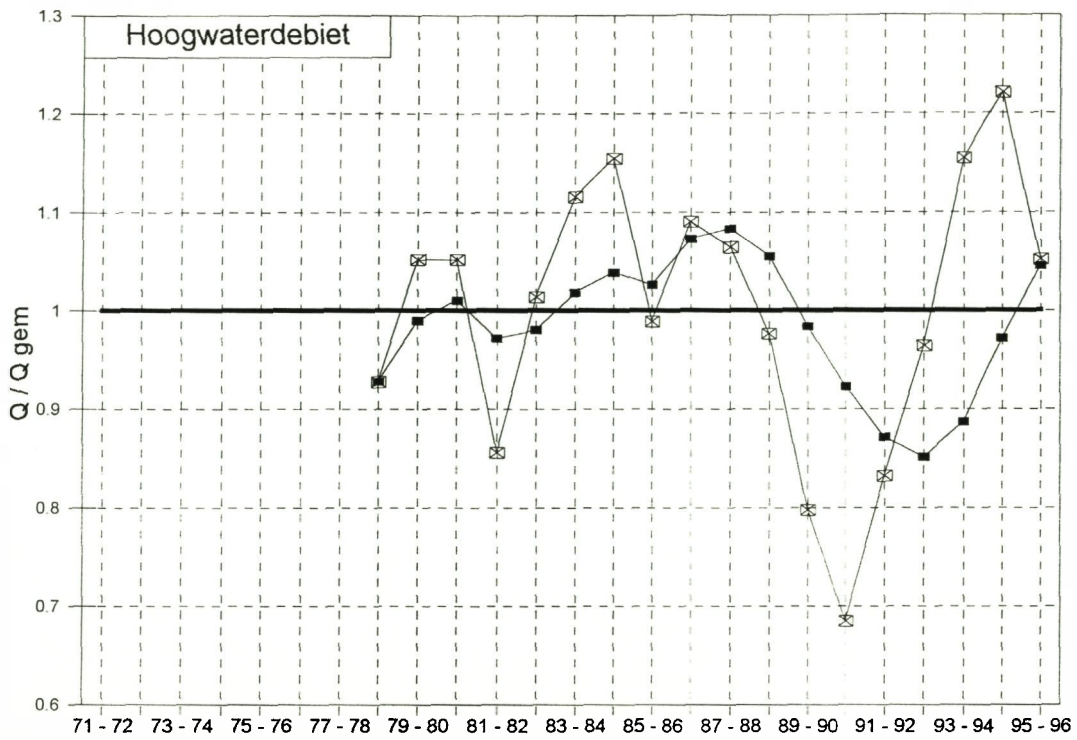
Nr.	Was van (datum Q_{max})	q_{max} (l/s ha)	q_{begin} (l/s ha)	q_{eind} (l/s ha)	Neerslag som (mm)	Neerslag duur (uur)	Concentratie tijd (uur)	Runoff (mm)	Runoff- Coëff. (-)	Runoff duur (uur)
1	30/01/95	0.38	0.13	0.16	122.3	274	30	14.6	0.12	368
2	15/09/84	0.36	0.04	0.10	156.2	273	38	11.2	0.07	317
3	20/02/95	0.34	0.15	0.19	82.0	279	10	8.2	0.10	305
4	26/01/88	0.31	0.09	0.14	73.1	202	17	8.1	0.11	214
5	31/12/93	0.36	0.13	0.15	62.2	201	3	7.5	0.12	227
6	02/01/87	0.34	0.10	0.12	78.4	207	3	7.3	0.09	228
7	07/02/84	0.35	0.10	0.12	70.2	174	17	7.0	0.10	209
8	16/03/88	0.30	0.12	0.14	47.0	165	6	5.9	0.12	174
9	27/12/94	0.28	0.09	0.10	78.2	161	19	5.8	0.07	223
10	24/07/88	0.34	0.07	0.08	73.4	163	12	5.6	0.08	178
11	31/03/86	0.31	0.10	0.12	65.5	146	17	5.2	0.08	157
12	02/10/84	0.36	0.08	0.12	53.7	75	25	5.1	0.10	122
13	24/11/84	0.29	0.09	0.11	43.9	183	17	5.0	0.11	196
14	21/12/93	0.27	0.10	0.15	62.1	141	15	4.9	0.08	163
15	14/04/85	0.34	0.10	0.13	49.4	114	20	4.8	0.10	140
16	29/08/96	0.33	0.05	0.10	97.7	91	22	4.4	0.05	99
17	24/03/87	0.31	0.11	0.13	31.6	71	20	3.3	0.10	102
18	06/10/87	0.28	0.06	0.09	54.1	69	21	3.0	0.06	98
19	25/06/83	0.32	0.05	0.11	45.0	19	20	2.9	0.06	49
20	10/05/88	0.32	0.06	0.12	37.2	33	21	2.7	0.07	84
21	29/05/84	0.34	0.07	0.13	38.4	47	18	2.7	0.07	61
22	21/07/80	0.33	0.07	0.10	36.4	27	16	2.5	0.07	55
23	08/02/88	0.23	0.13	0.14	27.5	107	17	2.5	0.09	119
24	02/03/87	0.34	0.12	0.14	28.1	30	15	2.4	0.08	61
25	15/01/81	0.33	0.09	0.15	26.7	35	12	2.3	0.09	51
26	10/03/81	0.29	0.09	0.13	32.2	50	18	2.3	0.07	62
27	19/01/86	0.31	0.09	0.14	31.6	40	16	2.3	0.07	61
28	14/03/79	0.29	0.14	0.16	30.6	70	17	2.3	0.07	79
29	26/05/83	0.32	0.11	0.15	36.5	61	19	2.2	0.06	64
30	26/03/88	0.33	0.19	0.19	23.9	75	15	2.1	0.09	78

Station 024 : Warmbeek / Achel



— doorlopend gemiddelde —x— Jaarmaxima —■— 5-jaargemiddelde

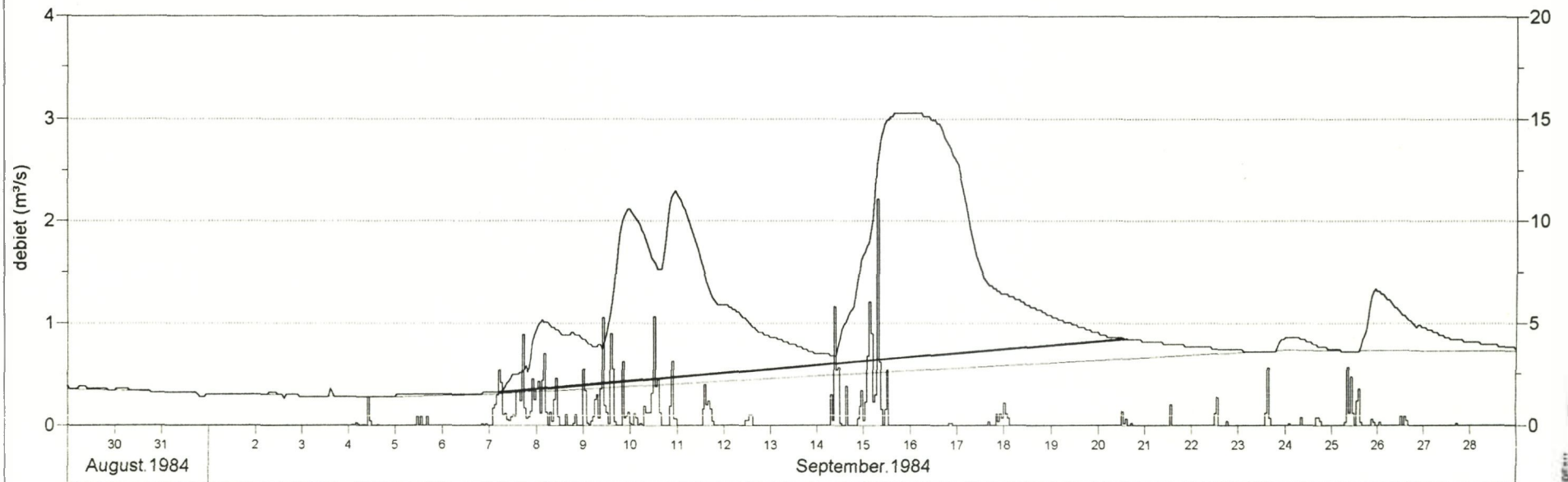
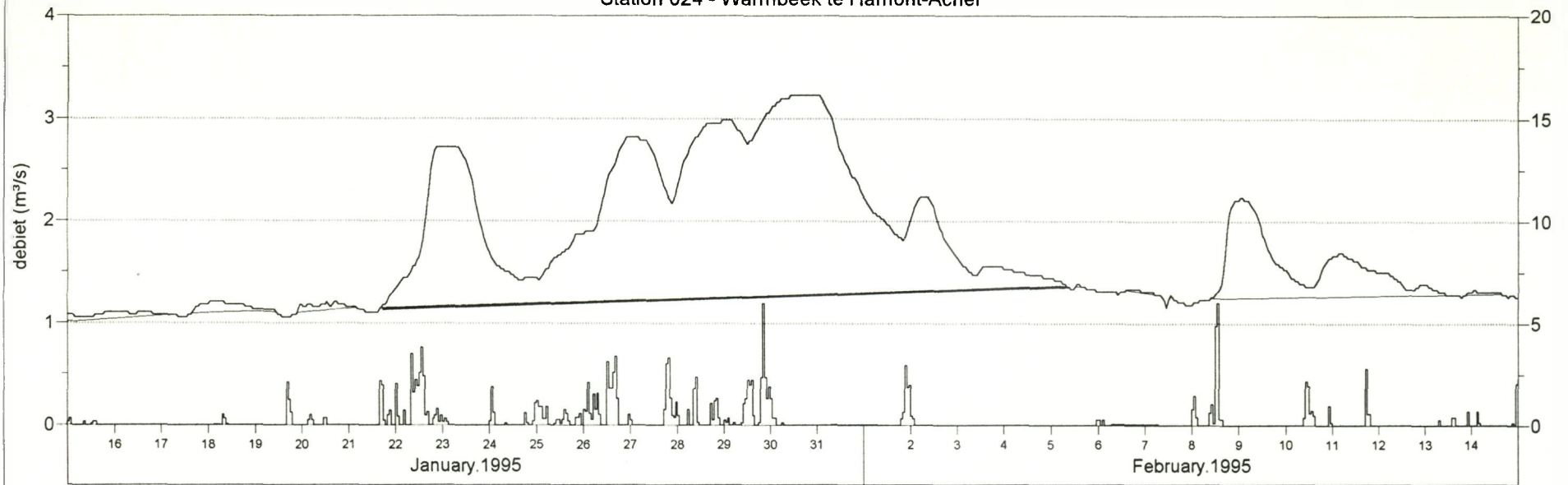
Station 024 : Warmbeek / Achel



— doorlopend gemiddelde —x— Jaarmaxima —■— 5-jaargemiddelde

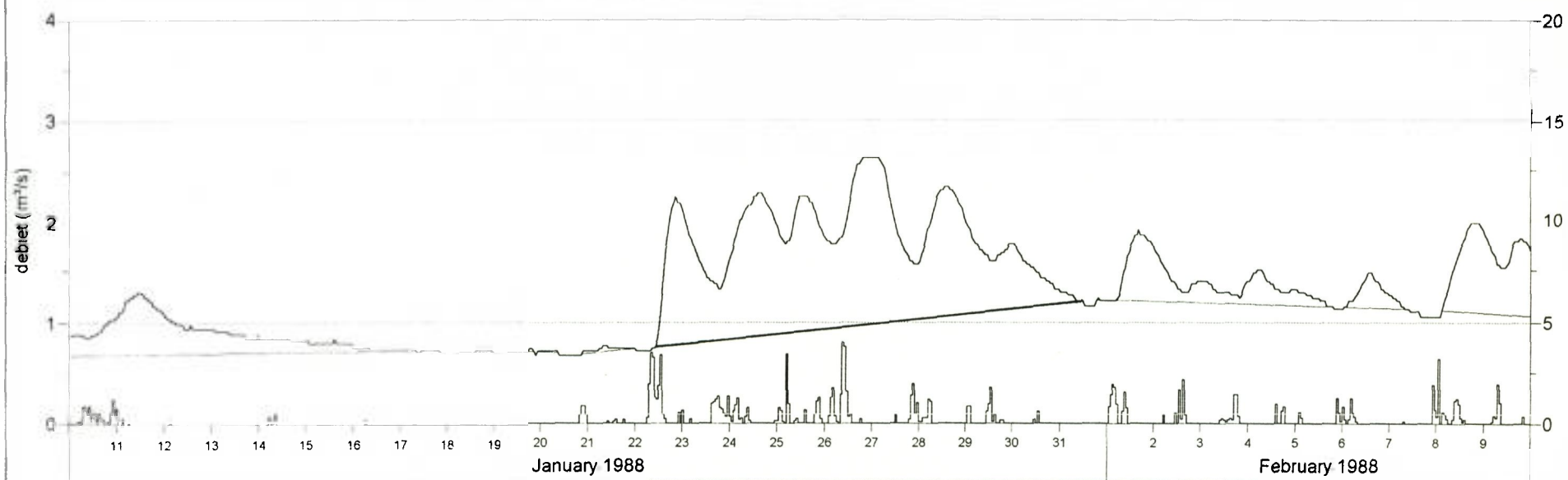
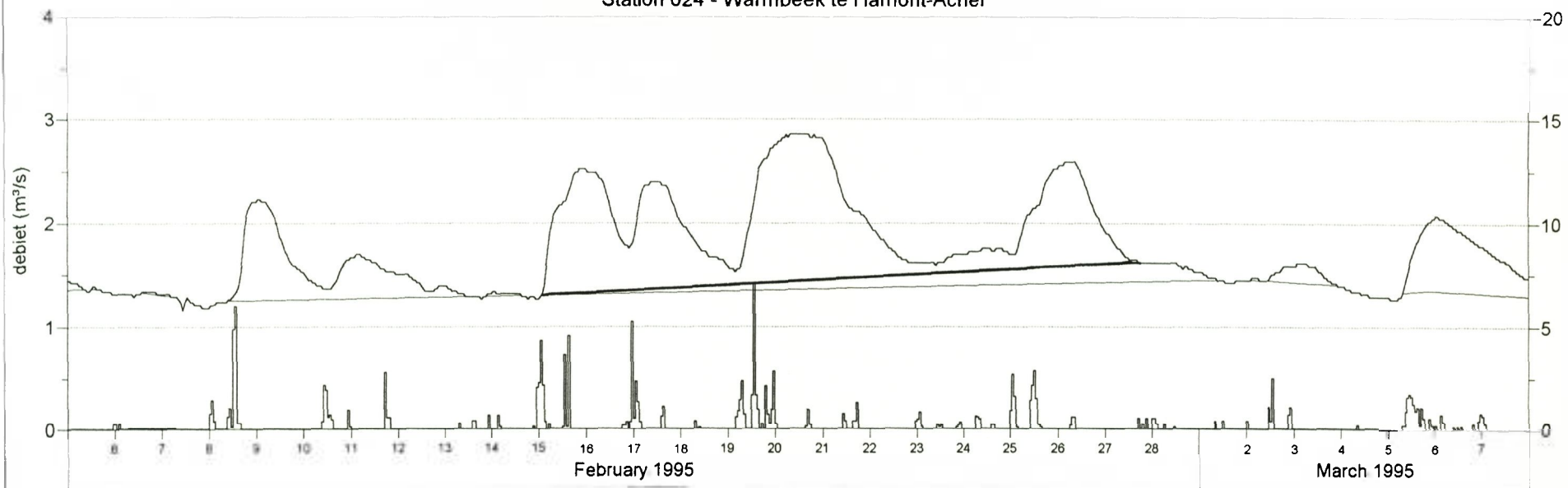
Uurwaarden van neerslag, debiet en basisafvoer

Station 024 - Warmbeek te Hamont-Achel



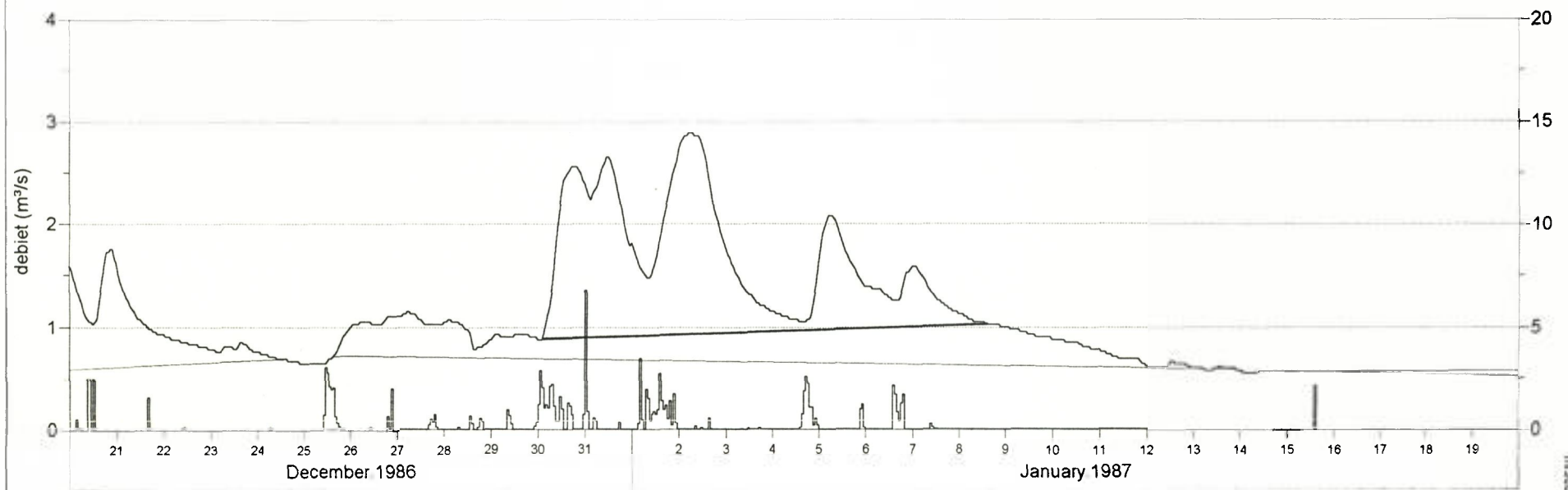
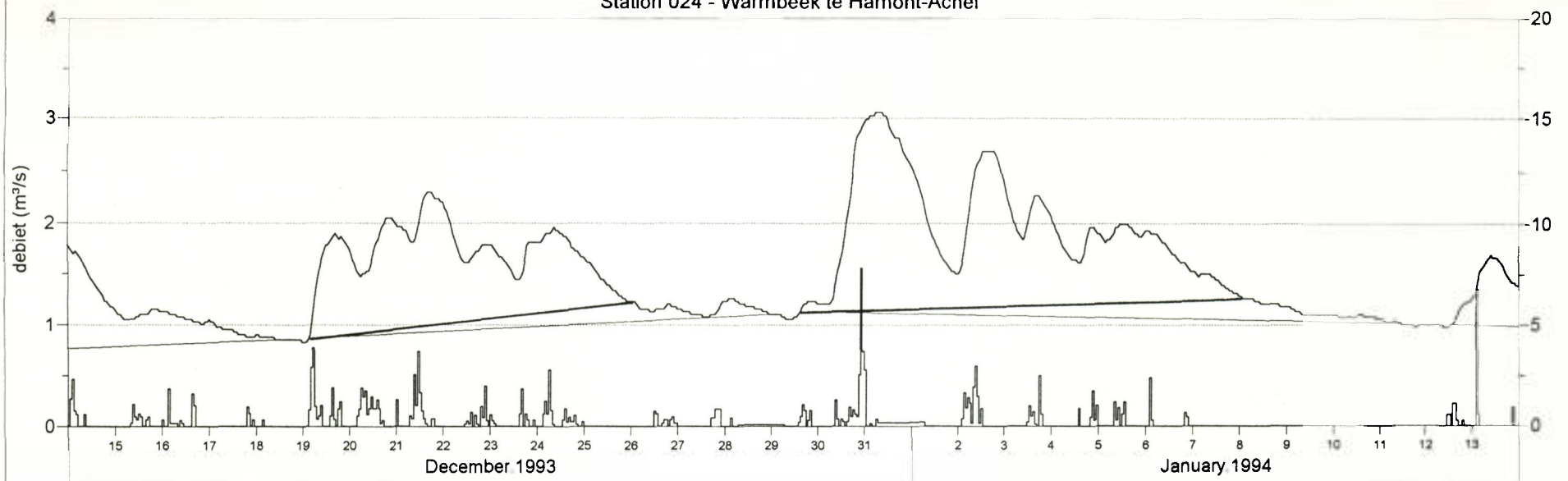
Uurwaarden van neerslag, debiet en basisafvoer

Station 024 - Warmbeek te Hamont-Achel



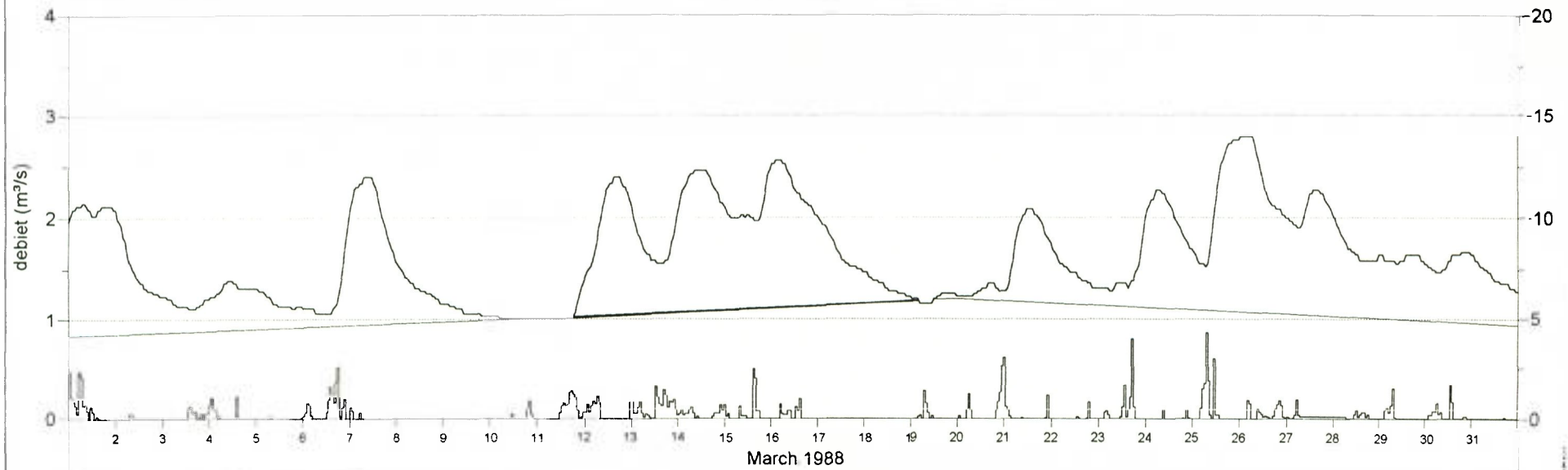
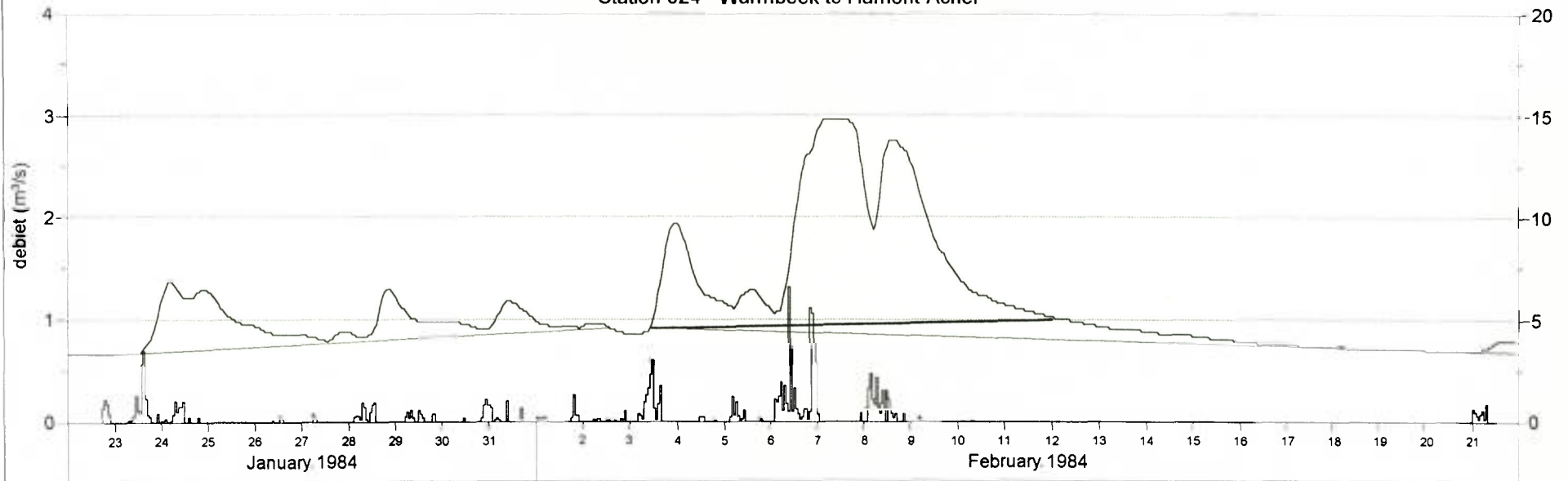
Uurwaarden van neerslag, debiet en basisafvoer

Station 024 - Warmbeek te Hamont-Achel



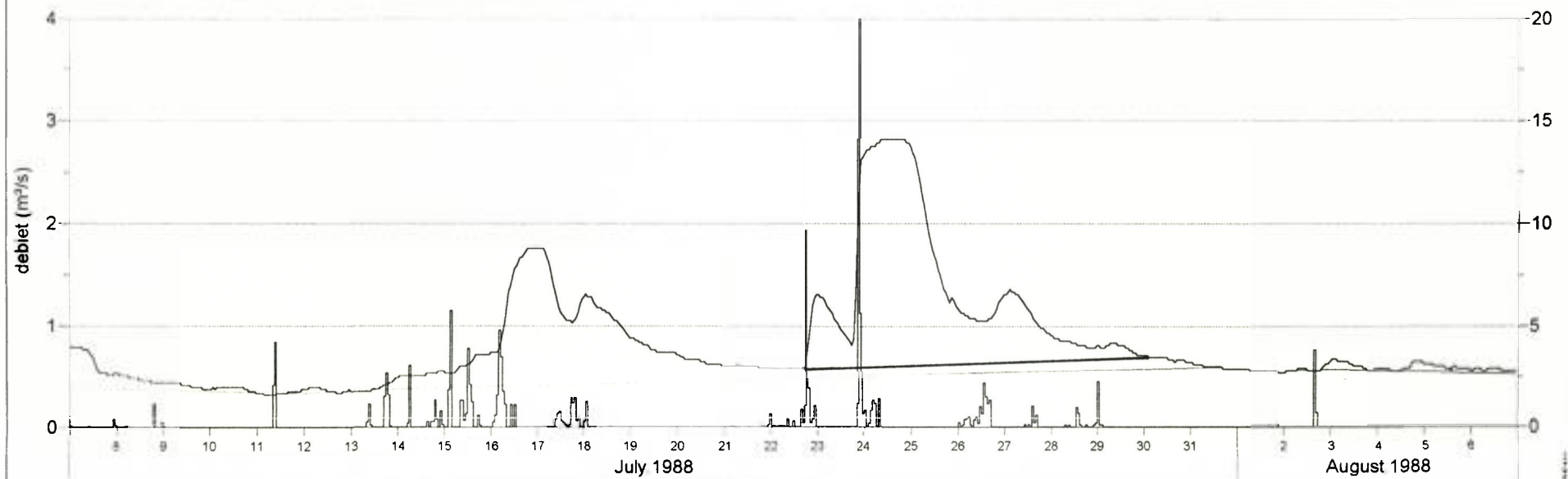
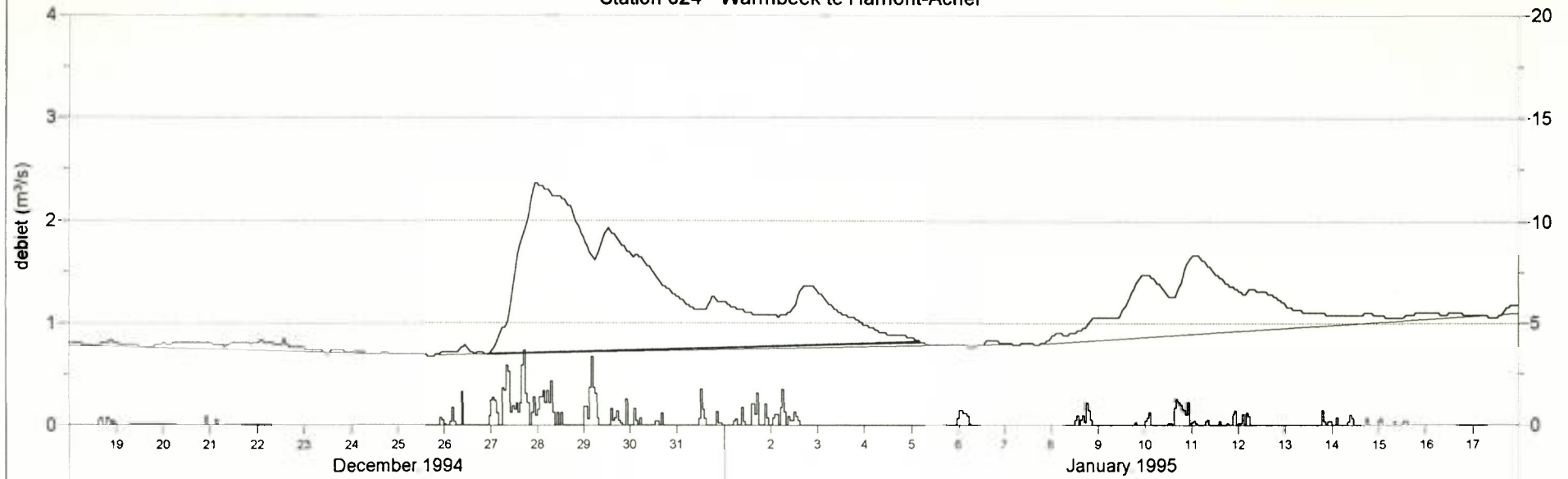
Uurwaarden van neerslag, debiet en basisafvoer

Station 024 - Warmbeek te Hamont-Achel



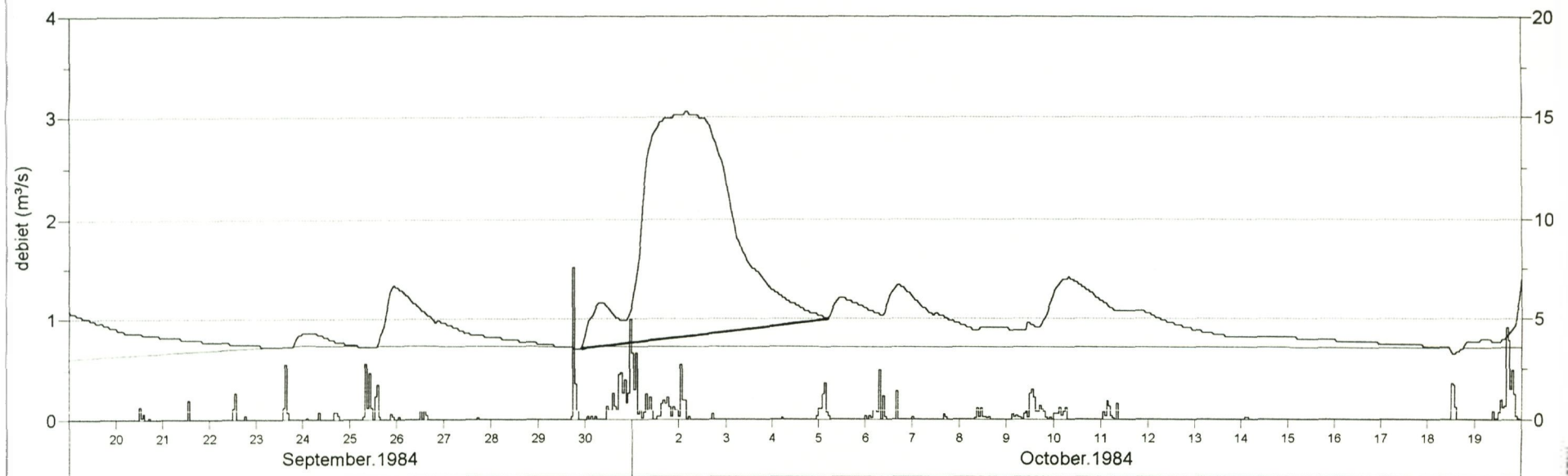
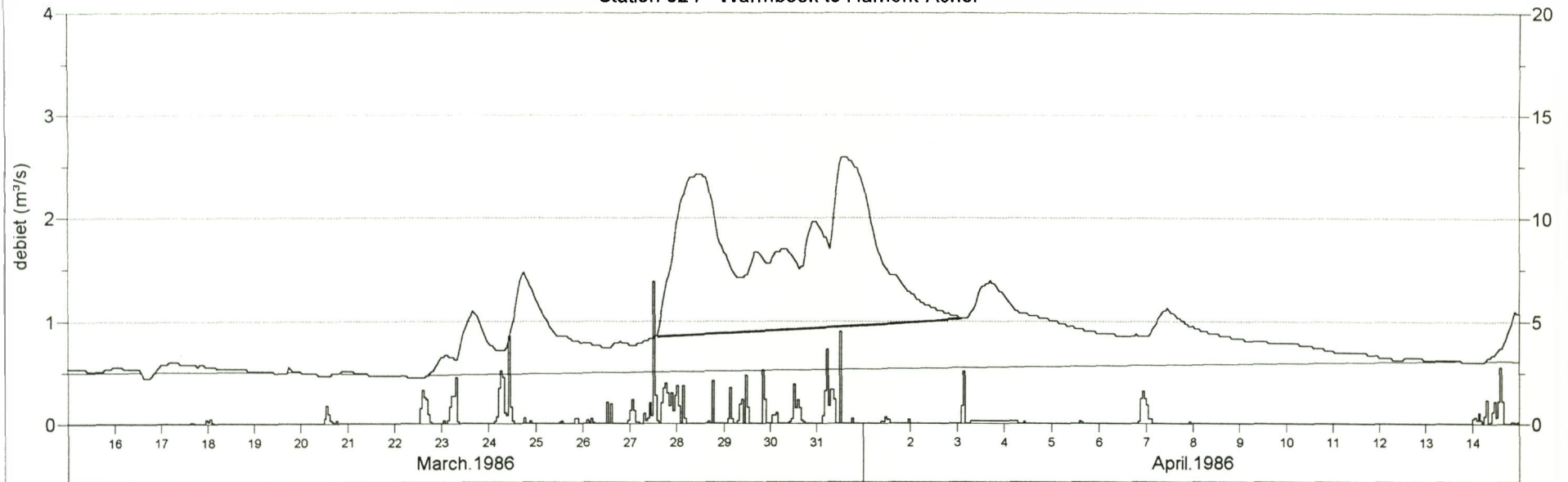
Uurwaarden van neerslag, debiet en basisafvoer

Station 024 - Warmbeek te Hamont-Achel



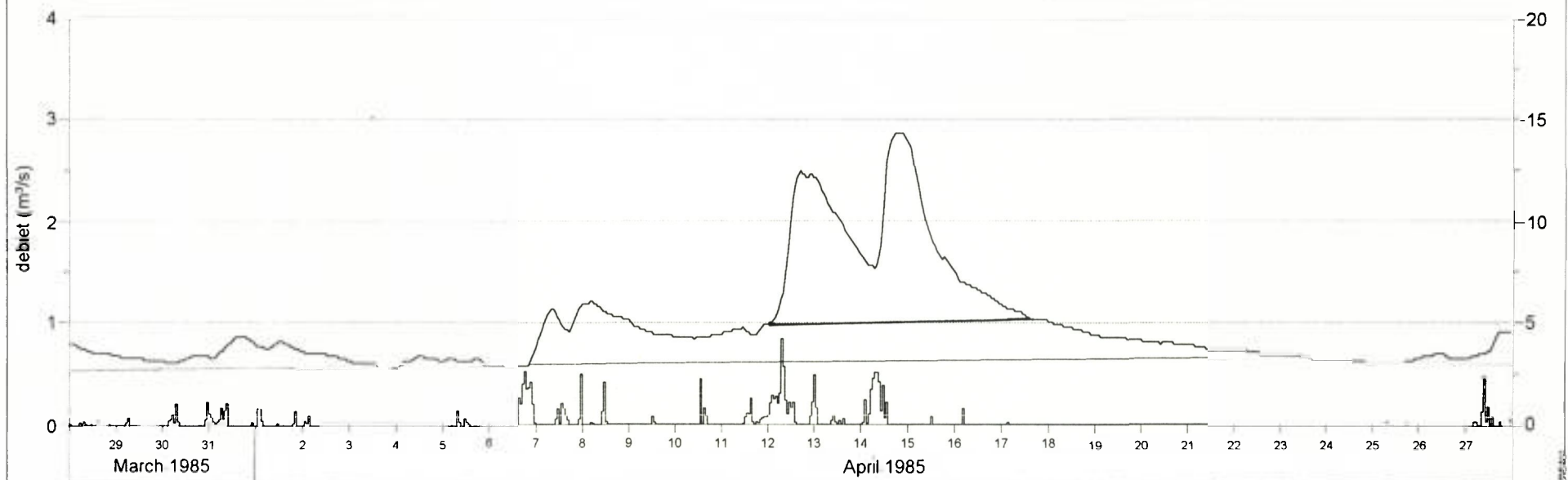
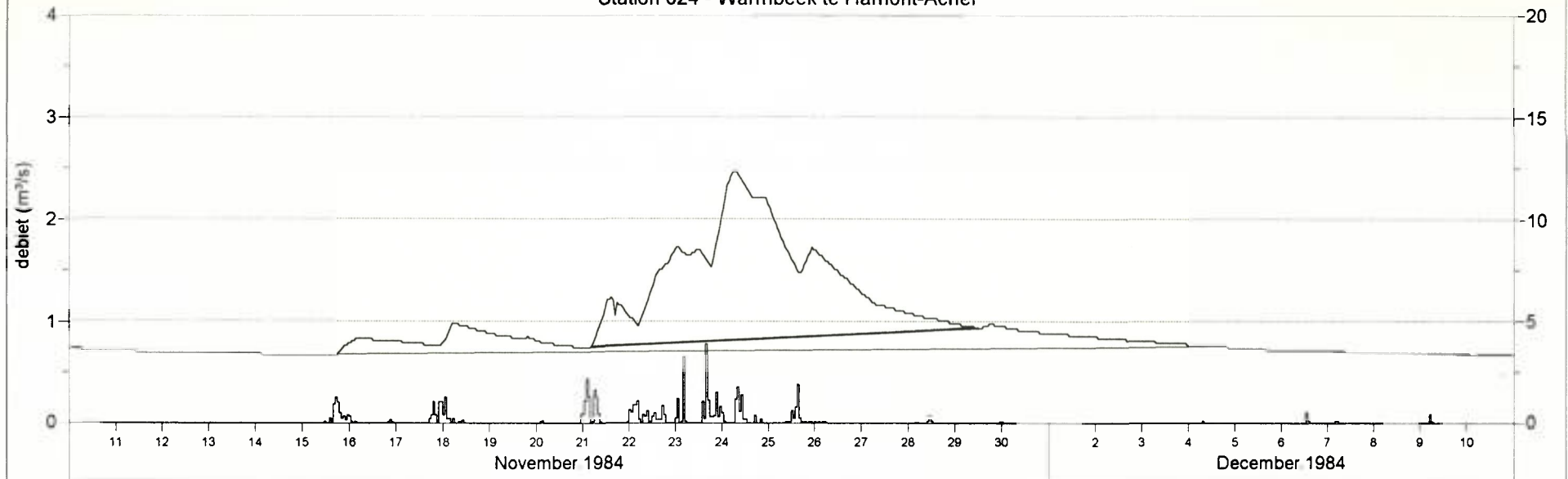
Uurwaarden van neerslag, debiet en basisafvoer

Station 024 - Warmbeek te Hamont-Achel



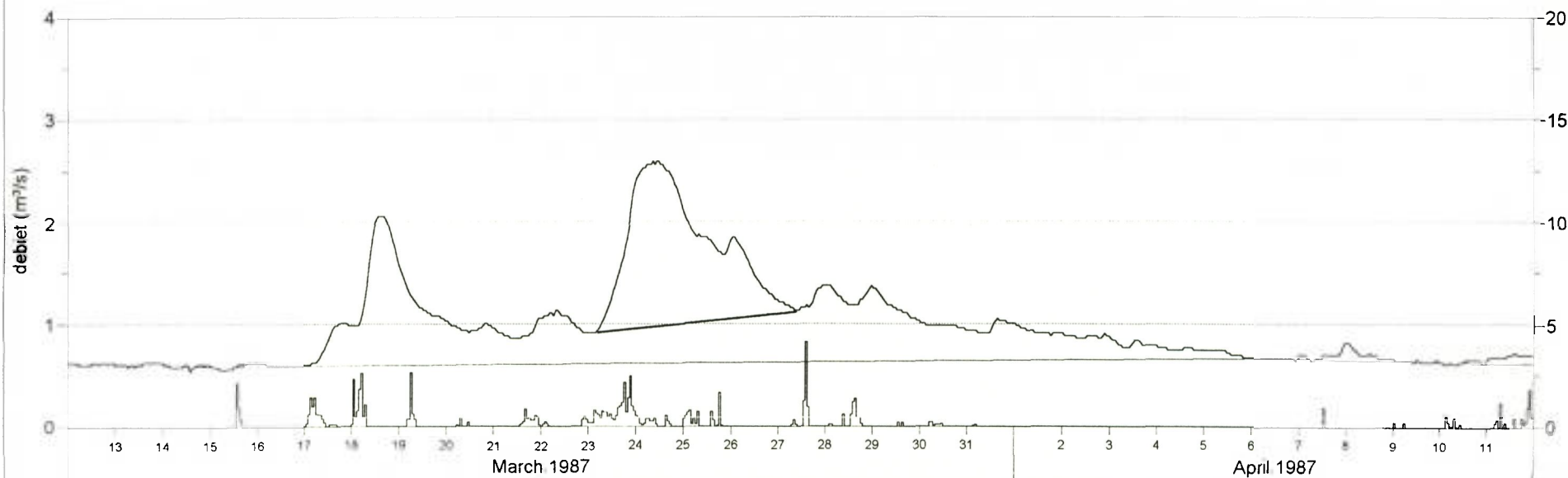
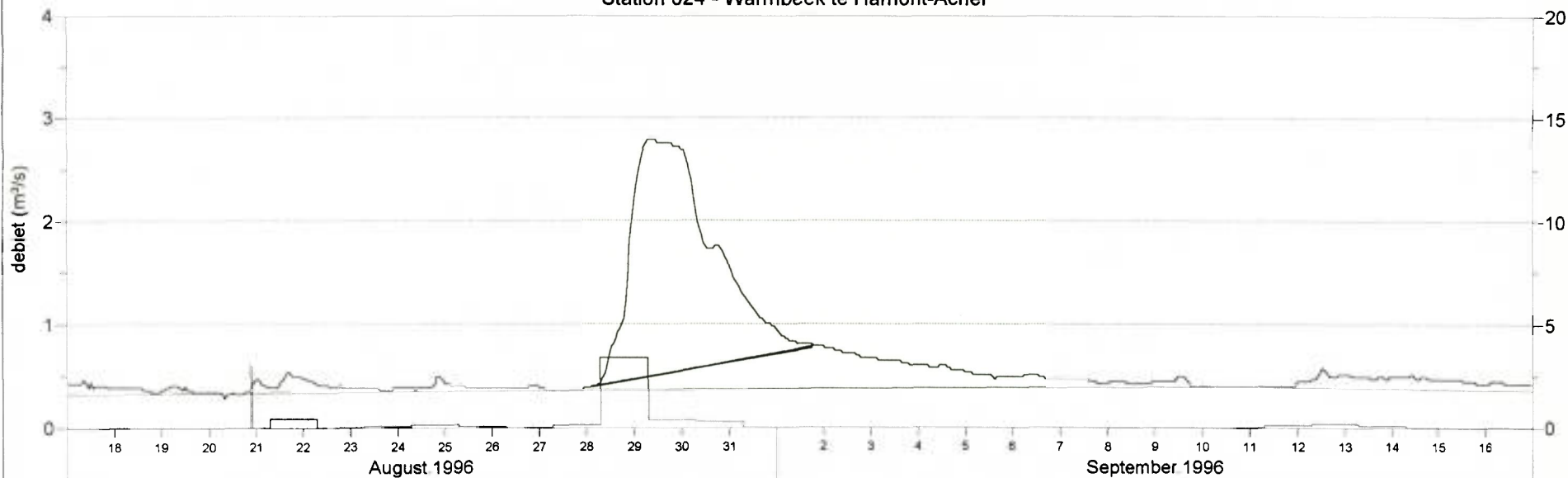
Uurwaarden van neerslag, debiet en basisafvoer

Station 024 - Warmbeek te Hamont-Achel



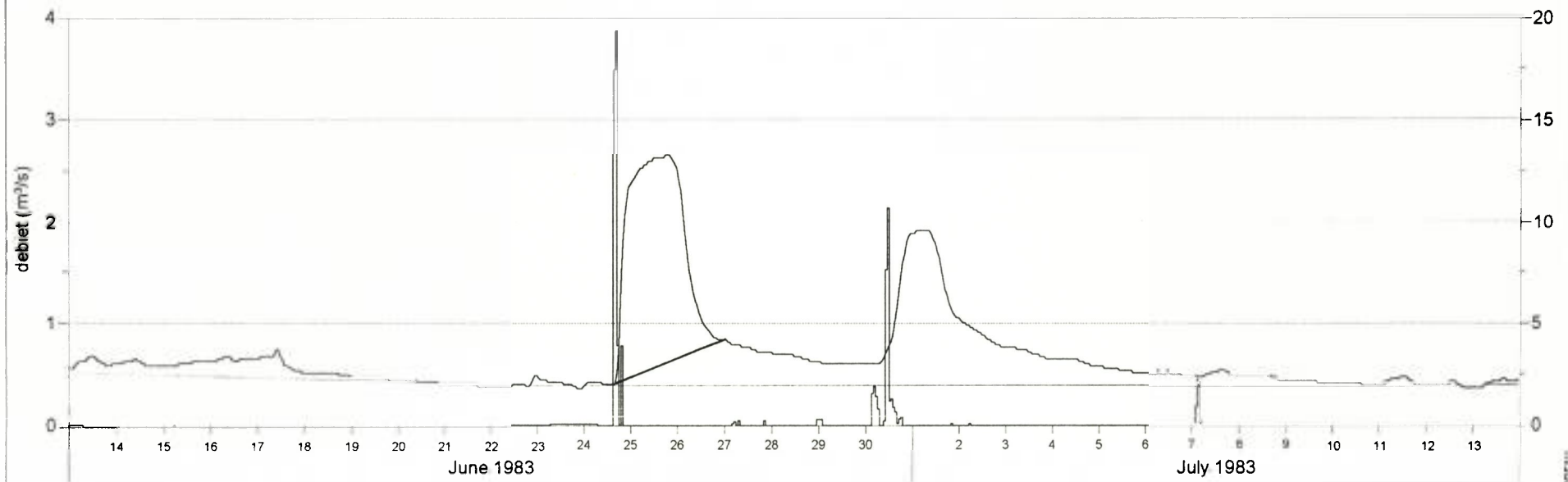
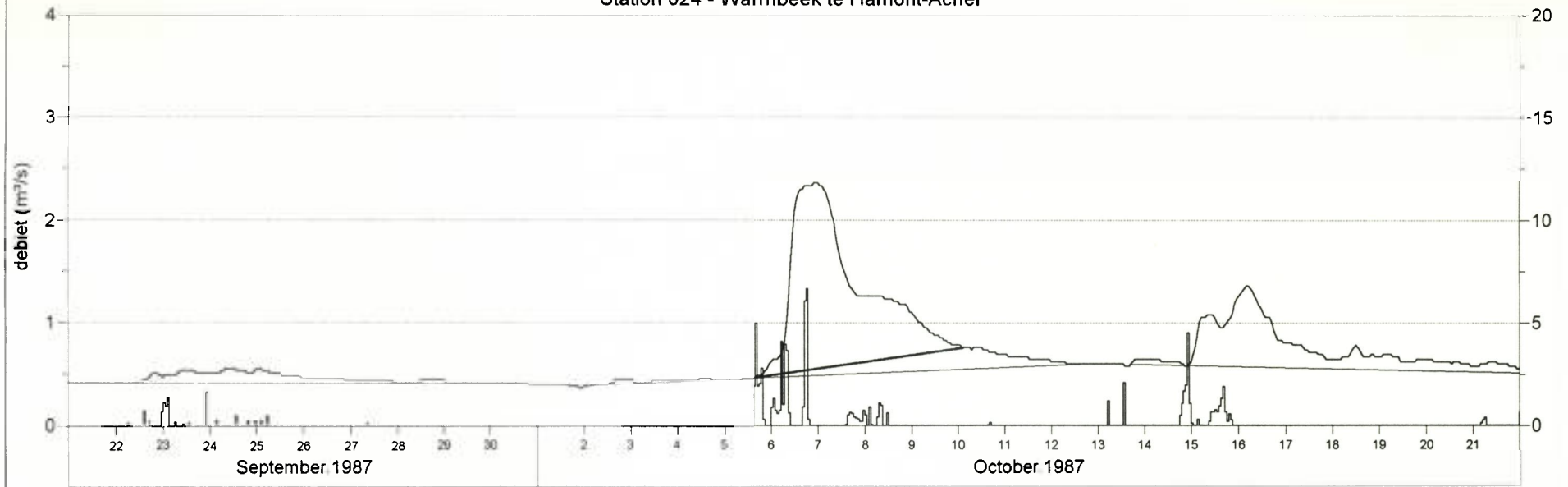
Uurwaarden van neerslag, debiet en basisafvoer

Station 024 - Warmbeek te Hamont-Achel

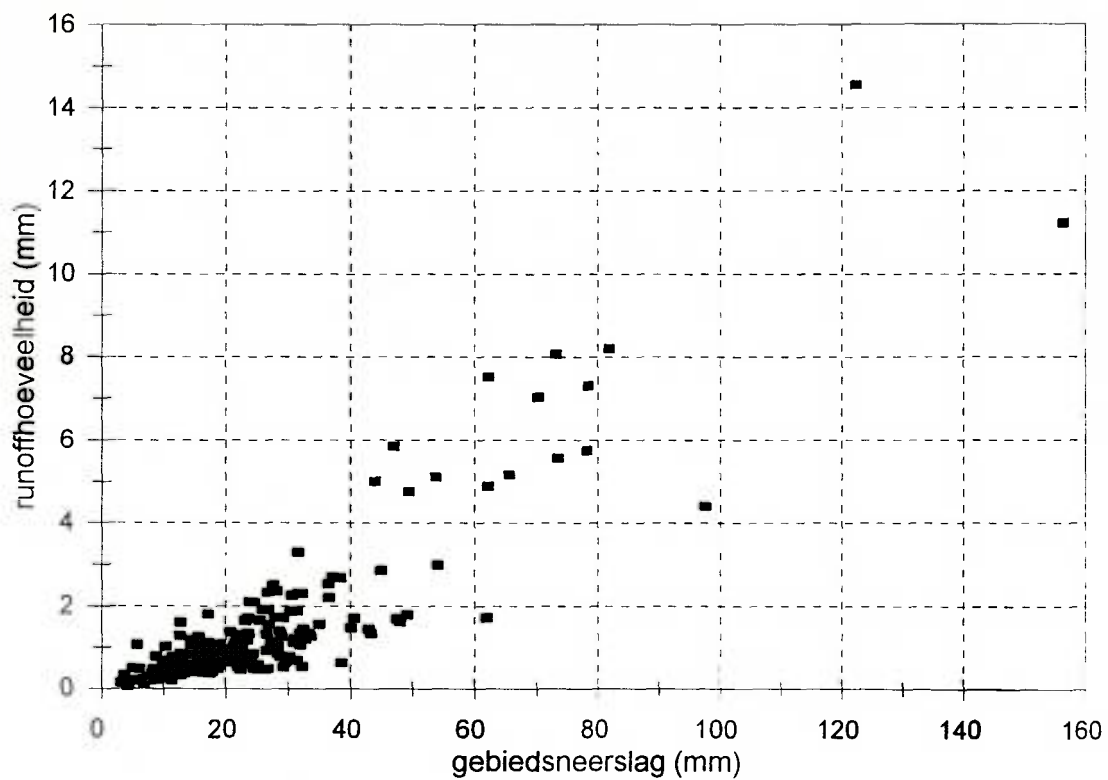
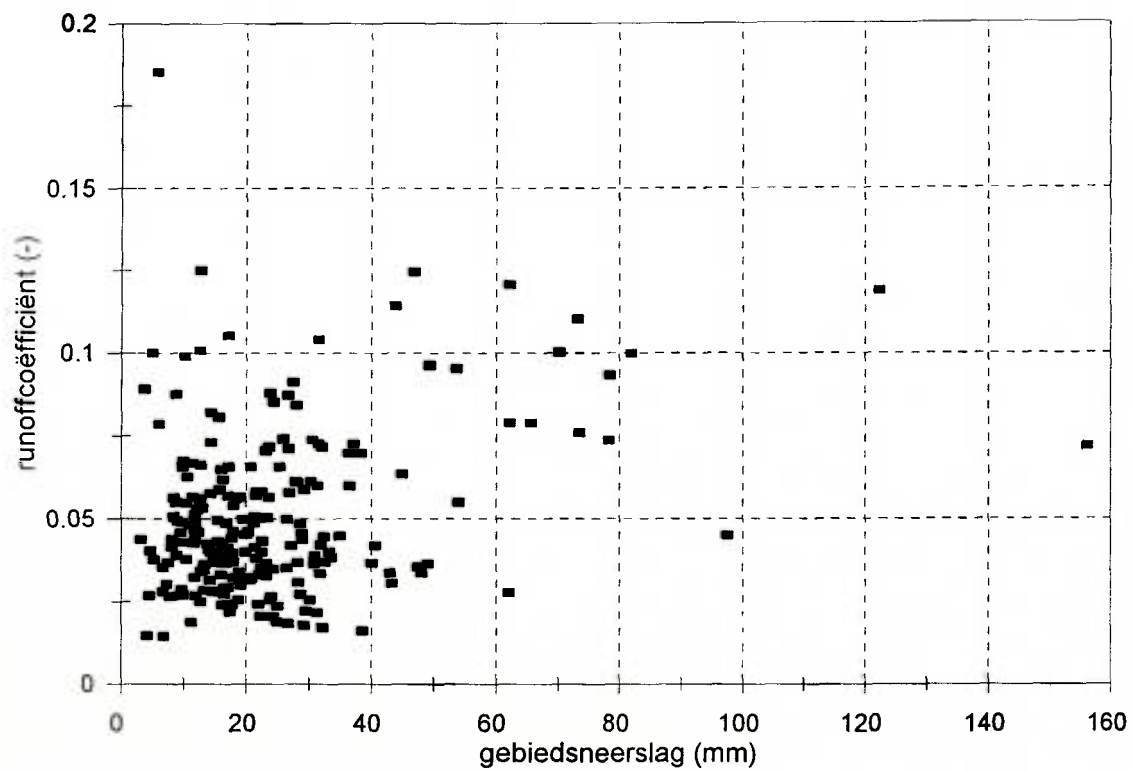


Uurwaarden van neerslag, debiet en basisafvoer

Station 024 - Warmbeek te Hamont-Achel



Station 024 : Warmbeek / Achel



Jaarmaxima van bergingen

Station 024 : Warmbeek/Hamont-Achel

Gemidd. jaarmax. : 2.645 m³/s

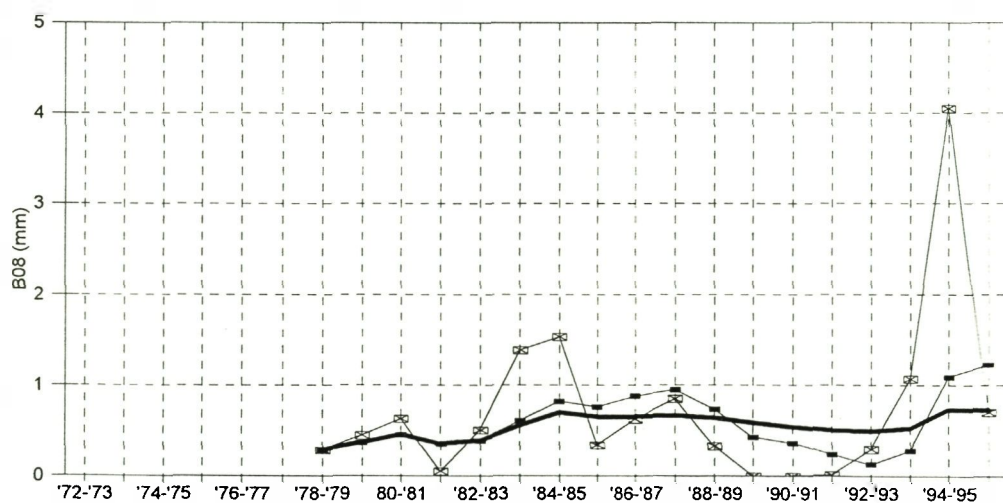
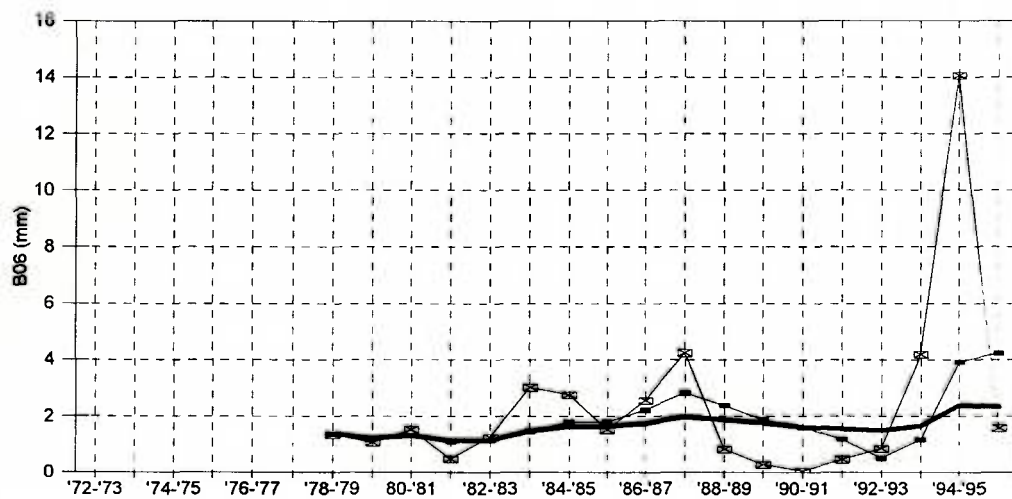
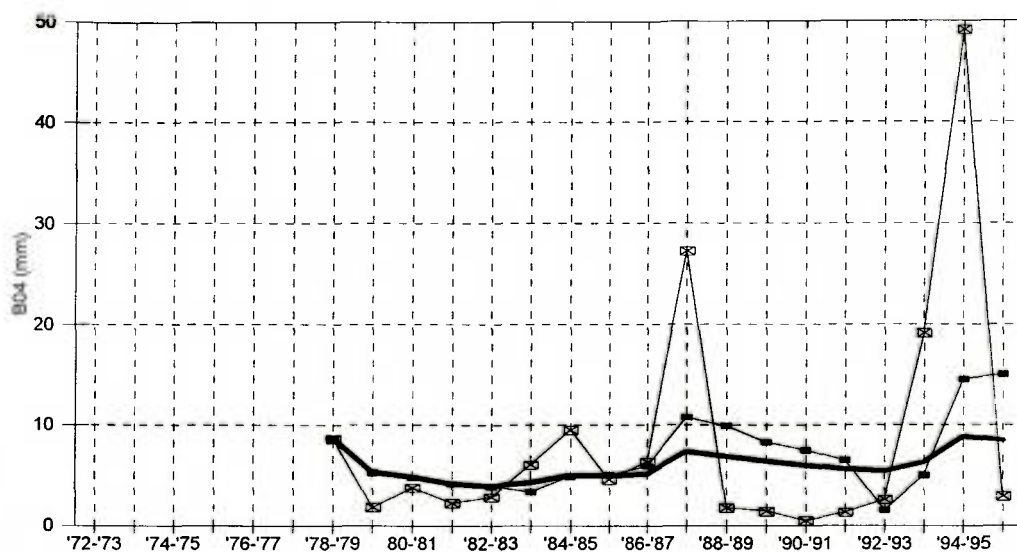
Waterjaar	piekdebiet (m³/s)	datum	(mm)	berging (uur)	datum
Bergingen boven 0,4 Qgem					
'78 -'79	2 454	19/03/79	8 60	1646	05/04/79
'79 -'80	2 782	21/07/80	1 81	139	22/07/80
'80 -'81	2 782	15/01/81	3 70	151	20/01/81
'81 -'82	2 264	15/12/81	2 22	529	16/12/81
'82 -'83	2 682	26/05/83	2 82	318	30/05/83
'83 -'84	2 952	07/02/84	6 00	643	11/02/84
'84 -'85	3 055	02/10/84	9 48	2507	30/10/84
'85 -'86	2 584	31/03/86	4 53	674	04/04/86
'86 -'87	2 883	02/01/87	6 30	571	08/01/87
'87 -'88	2 782	26/03/88	27 27	3490	02/04/88
'88 -'89	2 551	14/04/89	1 74	447	17/04/89
'89 -'90	2 110	01/03/90	1 41	253	03/03/90
'90 -'91	1 445	04/01/91	0 50	173	05/01/91
'91 -'92	2 202	21/12/91	1 30	159	23/12/91
'92 -'93	2 551	23/01/93	2 55	659	26/01/93
'93 -'94	3 055	31/12/93	19 13	4007	05/02/94
'94 -'95	3 230	31/01/95	49 10	5349	08/04/95
'95 -'96	2 782	29/08/96	2 89	227	31/08/96
Bergingen boven 0,5 Qgem					
'78 -'79	2 454	19/03/79	3 89	723	20/03/79
'79 -'80	2 782	21/07/80	1 40	93	22/07/80
'80 -'81	2 782	15/01/81	2 40	150	18/01/81
'81 -'82	2 264	15/12/81	0 79	80	16/12/81
'82 -'83	2 649	25/06/83	1 63	104	26/06/83
'83 -'84	2 952	07/02/84	4 03	373	10/02/84
'84 -'85	3 055	16/09/84	3 47	250	17/09/84
'85 -'86	2 584	31/03/86	2 81	319	01/04/86
'86 -'87	2 883	02/01/87	3 97	372	07/01/87
'87 -'88	2 782	26/03/88	10 09	1220	31/03/88
'88 -'89	2 551	14/04/89	1 13	126	15/04/89
'89 -'90	2 110	01/03/90	0 55	82	02/03/90
'90 -'91	1 812	29/12/90	0 16	24	30/12/90
'91 -'92	2 202	21/12/91	0 83	88	23/12/91
'92 -'93	2 486	12/01/93	1 32	128	13/01/93
'93 -'94	3 055	31/12/93	8 58	1407	07/01/94
'94 -'95	3 230	31/01/95	26 21	2990	09/03/95
'95 -'96	2 782	29/08/96	2 18	152	31/08/96

Jaarmaxima van bergingen**Station 024 : Warmbeek / Hamont-Achel**Gemidd. jaarmax. : 2.645 m³/s

Waterjaar	piekdebiet		(mm)	berging	
	(m³/s)	datum		(uur)	datum
Bergingen boven 0,6 . Qgem					
'78 -'79	2.454	19/03/79	1.33	228	16/03/79
'79 -'80	2.782	21/07/80	1.04	66	22/07/80
'80 -'81	2.782	15/01/81	1.51	149	17/01/81
'81 -'82	2.264	15/12/81	0.47	49	15/12/81
'82 -'83	2.649	25/06/83	1.23	73	26/06/83
'83 -'84	2.952	07/02/84	3.01	205	09/02/84
'84 -'85	3.055	16/09/84	2.74	168	17/09/84
'85 -'86	2.584	31/03/86	1.50	194	01/04/86
'86 -'87	2.883	02/01/87	2.55	265	03/01/87
'87 -'88	2.782	26/03/88	4.23	629	29/03/88
'88 -'89	2.584	08/03/89	0.81	63	09/03/89
'89 -'90	2.110	01/03/90	0.27	41	01/03/90
'90 -'91	1.812	29/12/90	0.04	10	30/12/90
'91 -'92	2.202	21/12/91	0.46	54	22/12/91
'92 -'93	2.551	23/01/93	0.83	86	23/01/93
'93 -'94	3.055	31/12/93	4.17	423	06/01/94
'94 -'95	3.230	31/01/95	14.05	1948	28/02/95
'95 -'96	2.782	29/08/96	1.57	107	30/08/96
Bergingen boven 0,7 . Qgem					
'78 -'79	2.454	14/03/79	0.77	83	16/03/79
'79 -'80	2.782	21/07/80	0.72	49	21/07/80
'80 -'81	2.782	15/01/81	0.95	99	16/01/81
'81 -'82	2.264	15/12/81	0.22	30	15/12/81
'82 -'83	2.649	25/06/83	0.85	54	26/06/83
'83 -'84	2.952	07/02/84	2.16	147	09/02/84
'84 -'85	3.055	16/09/84	2.10	121	17/09/84
'85 -'86	2.617	19/01/86	0.64	56	20/01/86
'86 -'87	2.883	02/01/87	1.55	168	02/01/87
'87 -'88	2.551	16/03/88	1.36	182	17/03/88
'88 -'89	2.584	08/03/89	0.55	44	09/03/89
'89 -'90	2.110	01/03/90	0.08	21	01/03/90
'90 -'91			0.00	0	
'91 -'92	2.202	21/12/91	0.15	34	22/12/91
'92 -'93	2.551	23/01/93	0.54	53	23/01/93
'93 -'94	3.055	31/12/93	2.25	258	06/01/94
'94 -'95	3.230	31/01/95	6.21	1144	02/02/95
'95 -'96	2.782	29/08/96	1.08	80	30/08/96

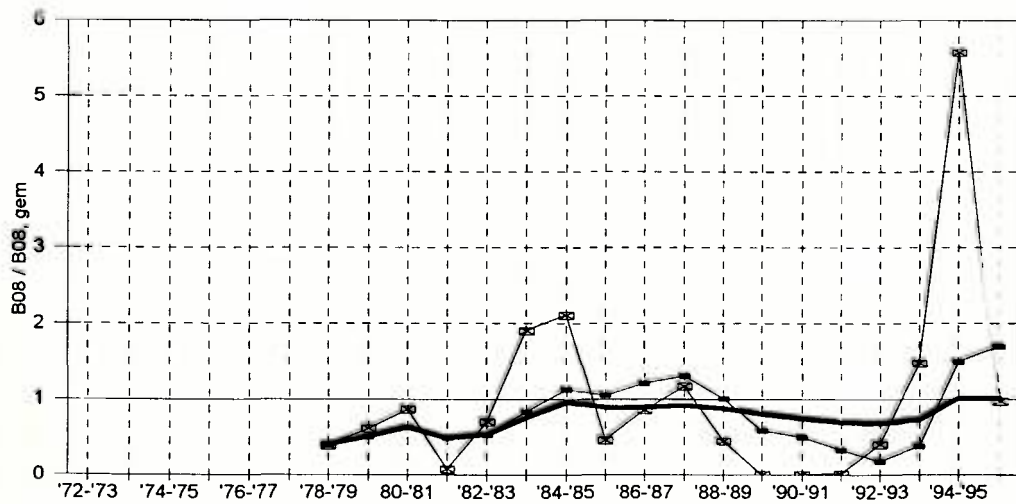
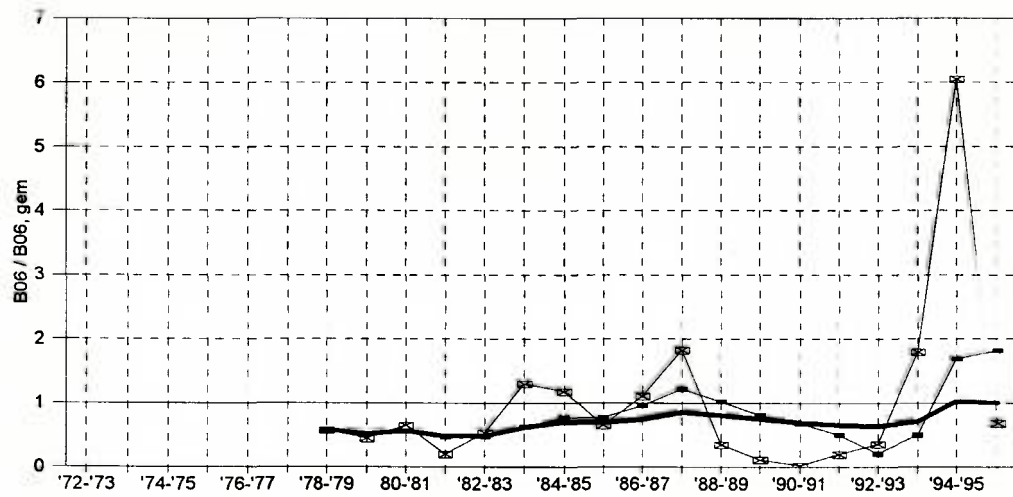
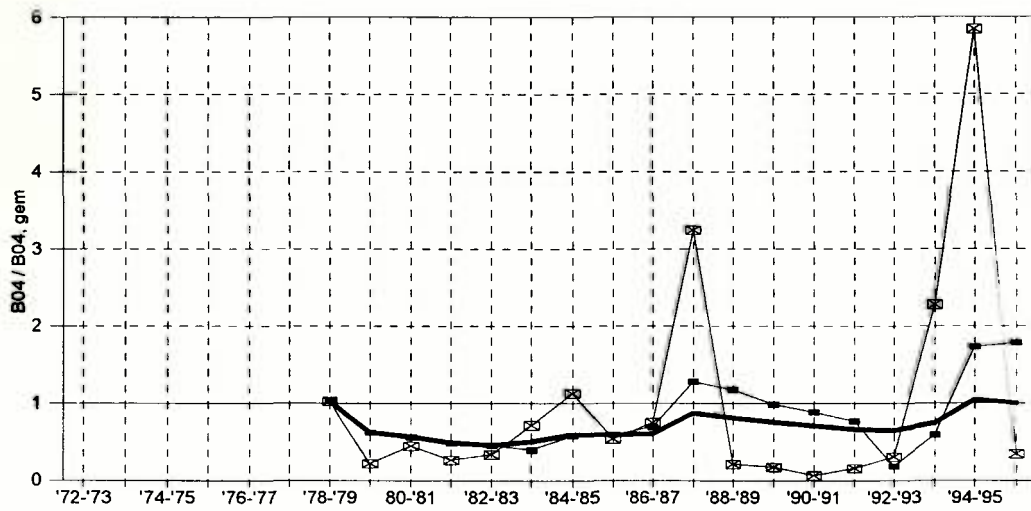
Jaarmaxima van bergingen					
Station 024 : Warmbeek/Hamont-Achel			Gemidd. jaarmax. : 2 645 m³/s		
Waterjaar	piekdebiet		berging		
	(m³/s)	datum	(mm)	(uur)	datum
Bergingen boven 0,8 · Qgem					
'78 -'79	2 454	14/03/79	0 28	55	16/03/79
'79 -'80	2 782	21/07/80	0 45	36	21/07/80
'80 -'81	2 782	15/01/81	0 63	48	15/01/81
'81 -'82	2 264	15/12/81	0 05	16	15/12/81
'82 -'83	2 649	25/06/83	0 50	42	26/06/83
'83 -'84	2 952	07/02/84	1 38	109	09/02/84
'84 -'85	3 055	16/09/84	1 53	91	17/09/84
'85 -'86	2 617	19/01/86	0 33	39	19/01/86
'86 -'87	2 883	02/01/87	0 62	102	02/01/87
'87 -'88	2 816	24/07/88	0 85	59	25/07/88
'88 -'89	2 584	08/03/89	0 32	30	09/03/89
'89 -'90			0 00	0	
'90 -'91			0 00	0	
'91 -'92	2 202	21/12/91	0 01	7	22/12/91
'92 -'93	2 551	23/01/93	0 29	33	23/01/93
'93 -'94	3 055	31/12/93	1 07	180	01/01/94
'94 -'95	3 230	31/01/95	4 05	303	01/02/95
'95 -'96	2 782	29/08/96	0 70	60	30/08/96

Station 024 : Warmbeek / Achel



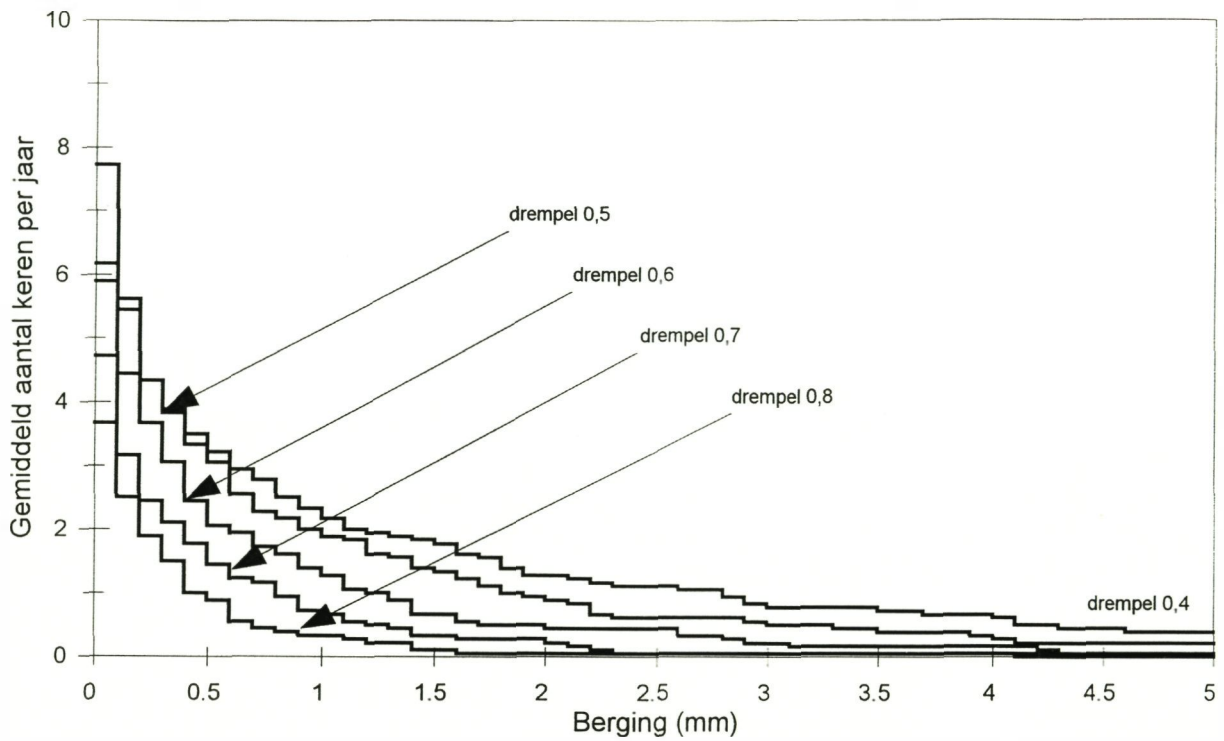
— doorlopend gemiddelde -x- Jaarmaxima -■- 5-jaargemiddelde

Station 024 : Warmbeek / Achel

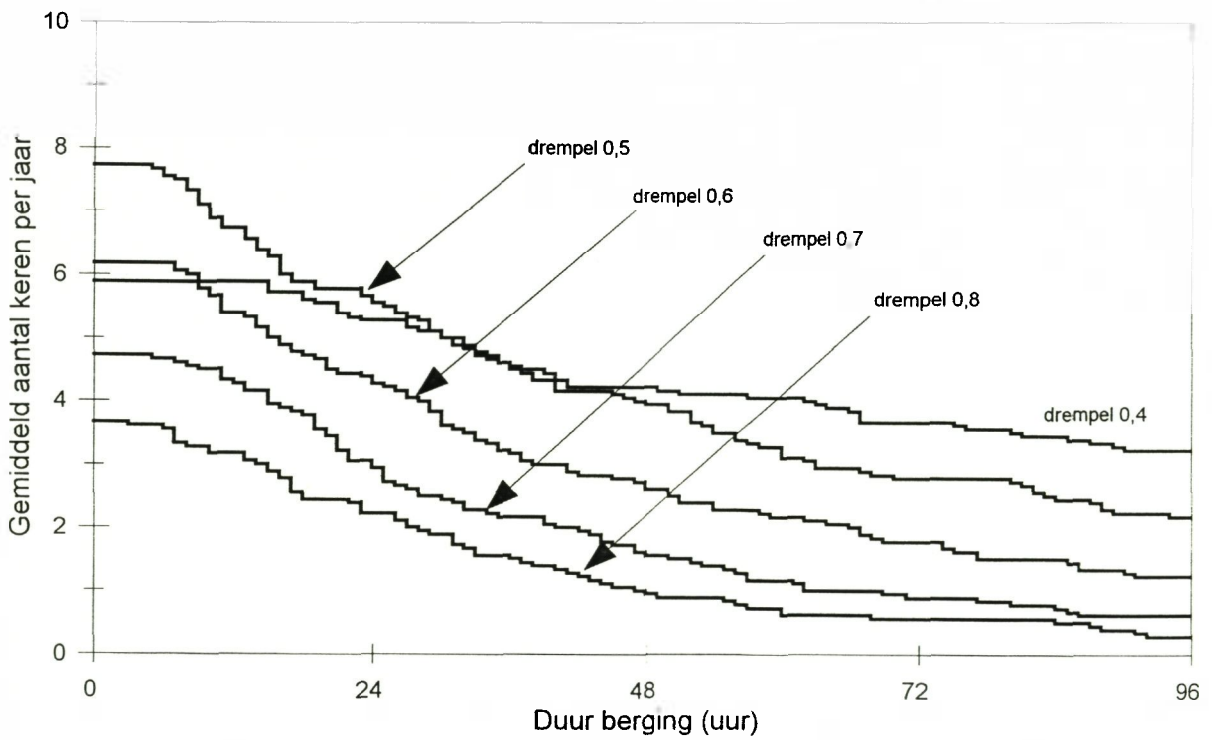


— doorlopend gemiddelde —■— Jaarmaxima —+— 5-jaargemiddelde

Station 024 - Warmbeek te Hamont-Achel



Station 024 - Warmbeek te Hamont-Achel

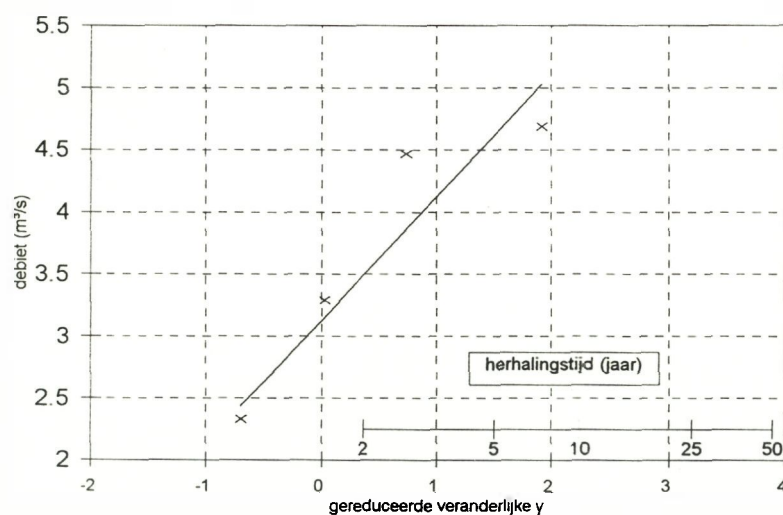


4. Station 042
**De Kleine Aa
te Essen-Wildert**



Station nr. 042 : Kleine Aa te Essen-Wildert

Nr.	Waterjaar	Datum	Hoogte (cm)	Debiet (m ³ /s)
1	'95 - '96	12/02/96	58	2 331
2	'92 - '93	12/12/92	71	3 290
3	'93 - '94	30/12/93	87	4 470
4	'94 - '95	29/01/95	90	4 691



Herhalingstijd (jaar)	Debiet (m ³ /s)	Spec. afvoer (l/s. ha)
2	3 486	0 94
5	4 611	1 24
10	5 357	1 44
25	6 298	1 69
50	6 997	1 88

Station 042 : Kleine Aa te Essen

Runoffhoeveelheden

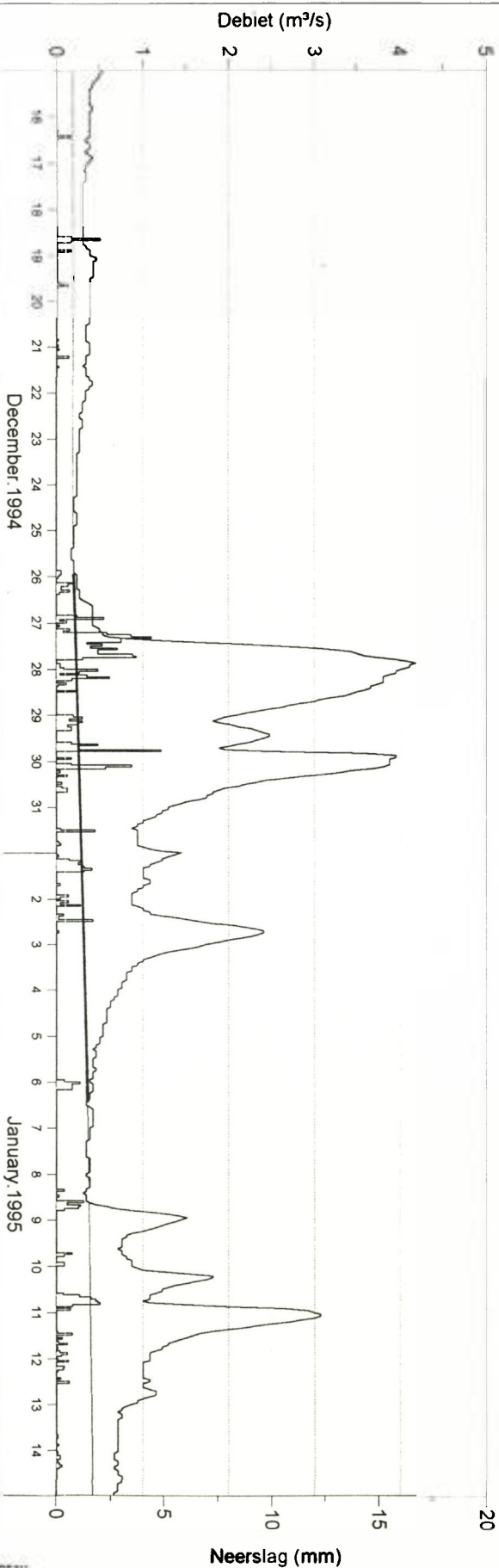
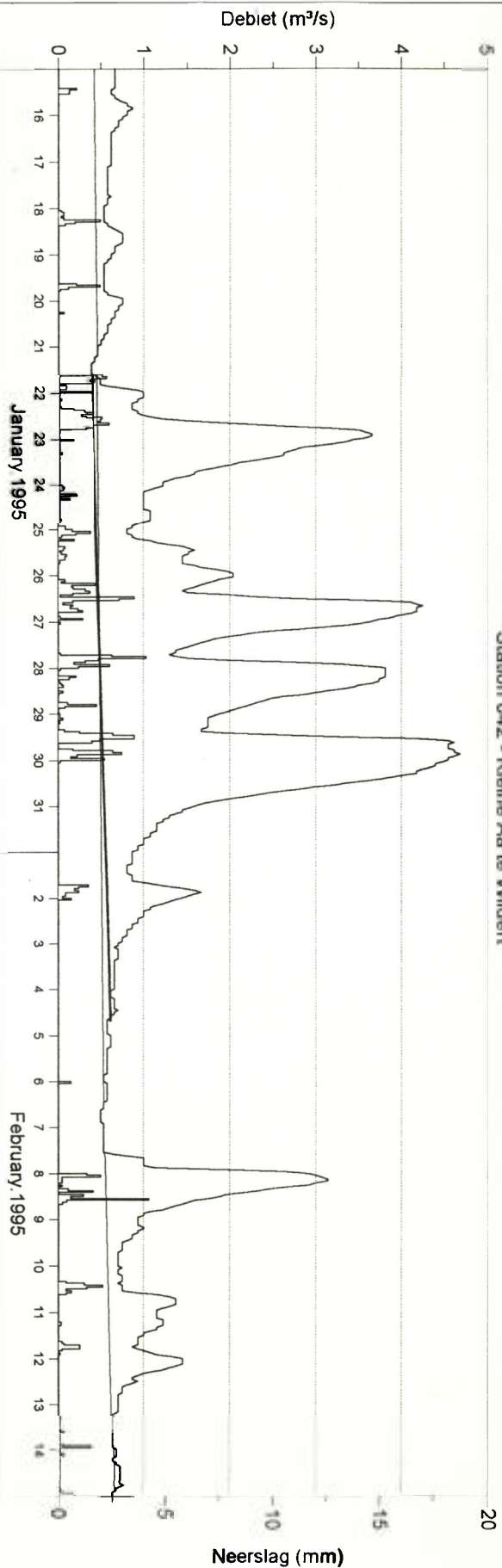
Stroomgebied = 3718 ha

Tijdreeks : 1992 - '96

Nr.	Was van (datum $Q_{\max}$)	$q_{\max}$ (l/s ha)	q_{begin} (l/s ha)	q_{eind} (l/s ha)	Neerslag som (mm)	Neerslag duur (uur)	Concentratie tijd (uur)	Runoff (mm)	Runoff- Coëff. (-)	Runoff duur (uur)
1	29/01/95	1.26	0.11	0.15	105.1	274	27	43.0	0.41	337
2	27/12/94	1.12	0.05	0.09	95.2	189	32	31.8	0.33	276
3	13/12/93	0.77	0.08	0.12	102.2	386	18	29.0	0.28	402
4	30/12/93	1.20	0.11	0.11	76.4	222	25	27.0	0.35	274
5	04/04/94	0.90	0.10	0.13	60.0	232	29	22.5	0.37	268
6	12/01/93	0.65	0.03	0.06	41.7	235	47	14.0	0.33	312
7	14/11/93	0.86	0.02	0.06	67.6	134	36	12.9	0.19	216
8	19/03/94	0.96	0.05	0.09	35.1	102	34	12.0	0.34	168
9	11/01/95	0.83	0.09	0.14	24.4	173	14	11.3	0.46	225
10	05/06/94	0.81	0.02	0.06	64.3	221	14	10.5	0.16	243
11	12/07/95	0.77	0.01	0.03	45.5	135	-16	8.8	0.19	162
12	19/02/95	0.88	0.17	0.17	25.2	83	12	8.0	0.32	112
13	08/02/95	0.84	0.14	0.17	22.0	105	4	7.6	0.35	137
14	22/12/95	0.53	0.05	0.10	49.4	204	33	7.5	0.15	186
15	15/11/94	0.69	0.07	0.08	33.7	198	25	7.0	0.21	255
16	09/12/94	0.94	0.07	0.10	32.9	70	20	6.8	0.21	120
17	17/11/92	0.71	0.07	0.07	29.5	121	20	6.8	0.23	138
18	26/07/93	0.65	0.01	0.05	70.0	105	19	6.1	0.09	123
19	23/01/94	0.79	0.09	0.13	23.0	96	13	5.6	0.25	122
20	12/12/92	0.88	0.08	0.08	20.5	15	20	5.5	0.27	111
21	15/02/95	0.65	0.17	0.18	16.0	53	12	5.1	0.32	74
22	25/03/94	0.67	0.11	0.11	17.5	64	24	4.9	0.28	120
23	22/01/93	0.61	0.06	0.06	20.8	130	30	4.6	0.22	144
24	12/02/96	0.63	0.03	0.07	29.8	45	10	4.0	0.14	71
25	09/12/93	0.47	0.05	0.08	21.9	48	21	3.8	0.17	92
26	25/02/95	0.73	0.18	0.18	17.5	42	22	3.8	0.21	56
27	03/12/96	0.75	0.07	0.08	20.3	17	15	3.7	0.18	69
28	14/10/93	0.47	0.05	0.06	23.7	21	17	3.6	0.15	75
29	16/09/93	0.51	0.02	0.04	39.9	49	17	3.6	0.09	89
30	24/04/94	0.55	0.05	0.05	16.3	69	17	3.0	0.19	112

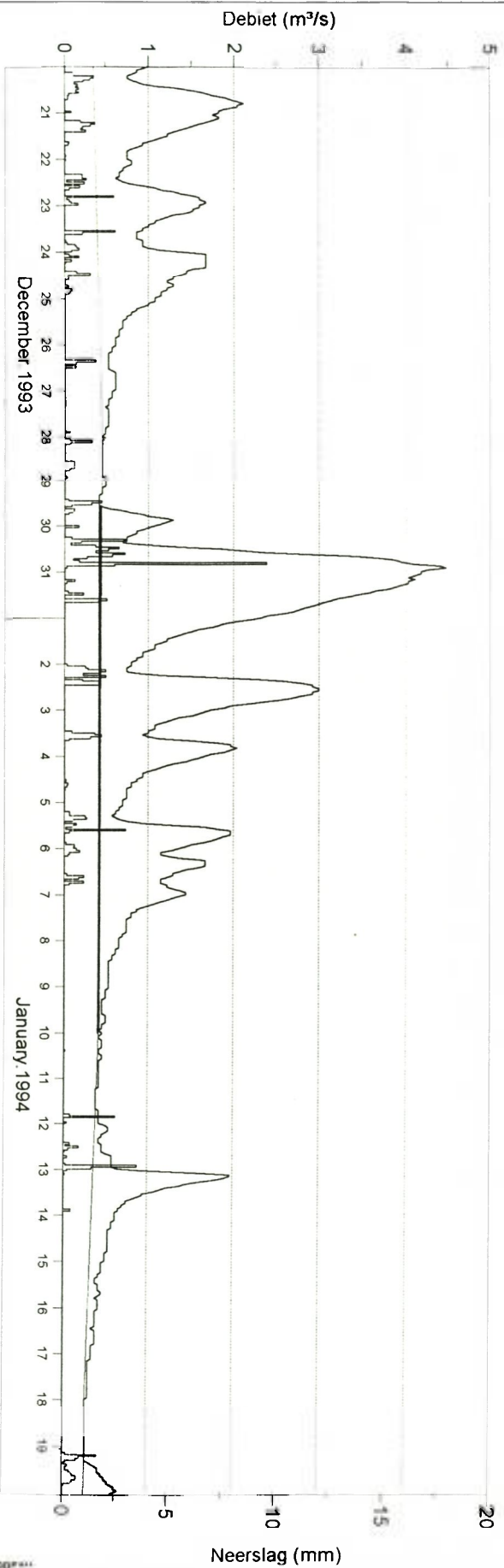
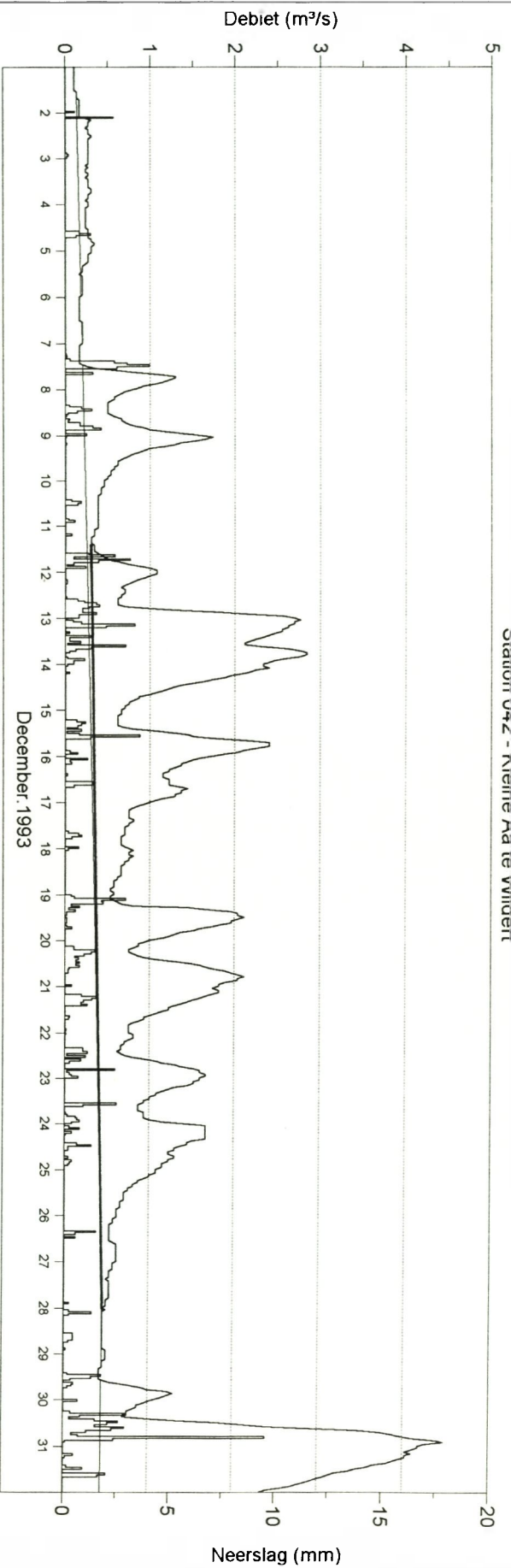
Uurwaarden van neerslag, debiet en basisafvoer

Station 042 - Kleine Aa te Wildert



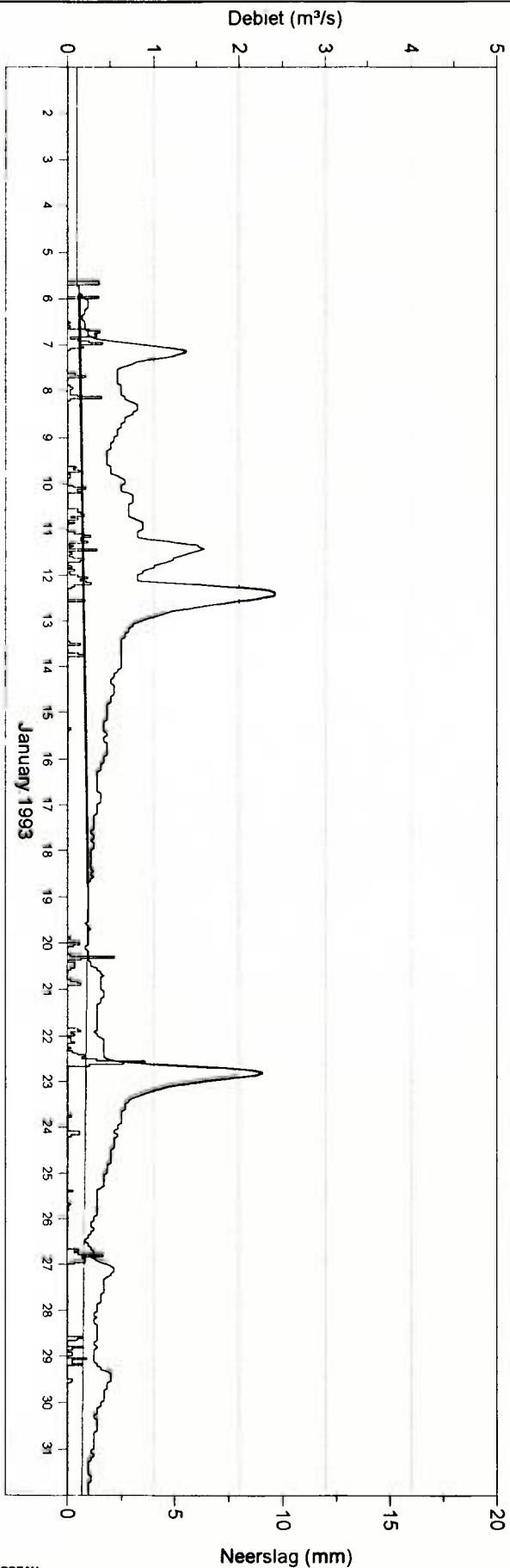
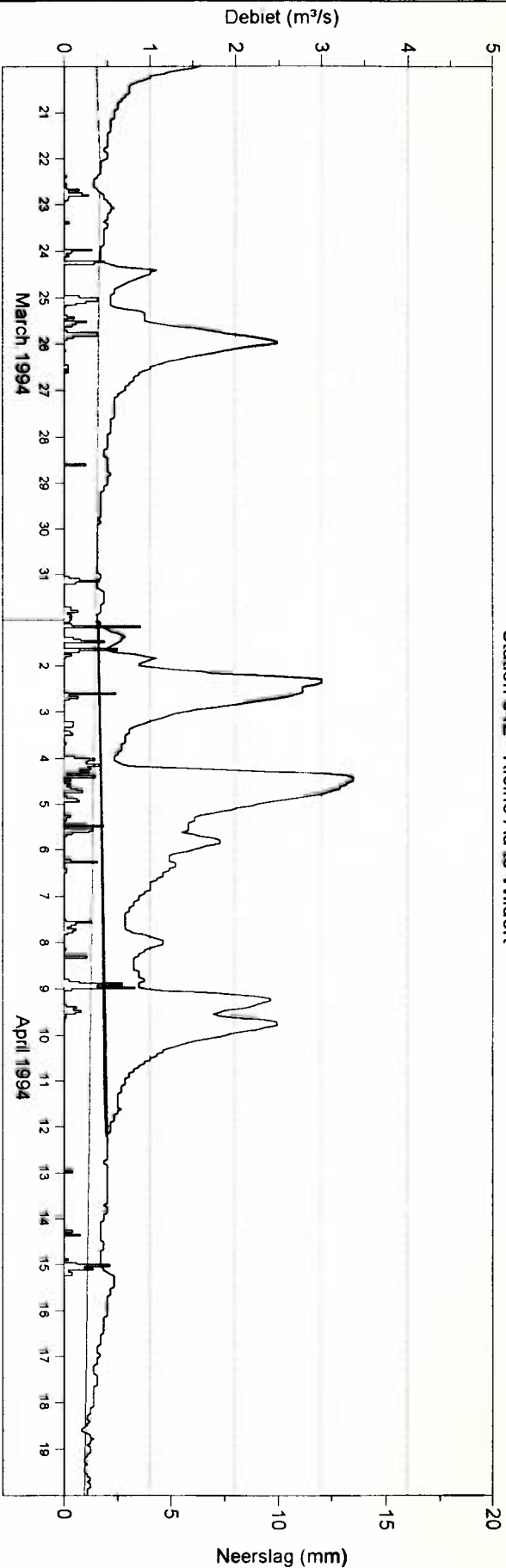
Uurwaarden van neerslag, debiet en basisafvoer

Station 042 - Kleine Aa te Wildert

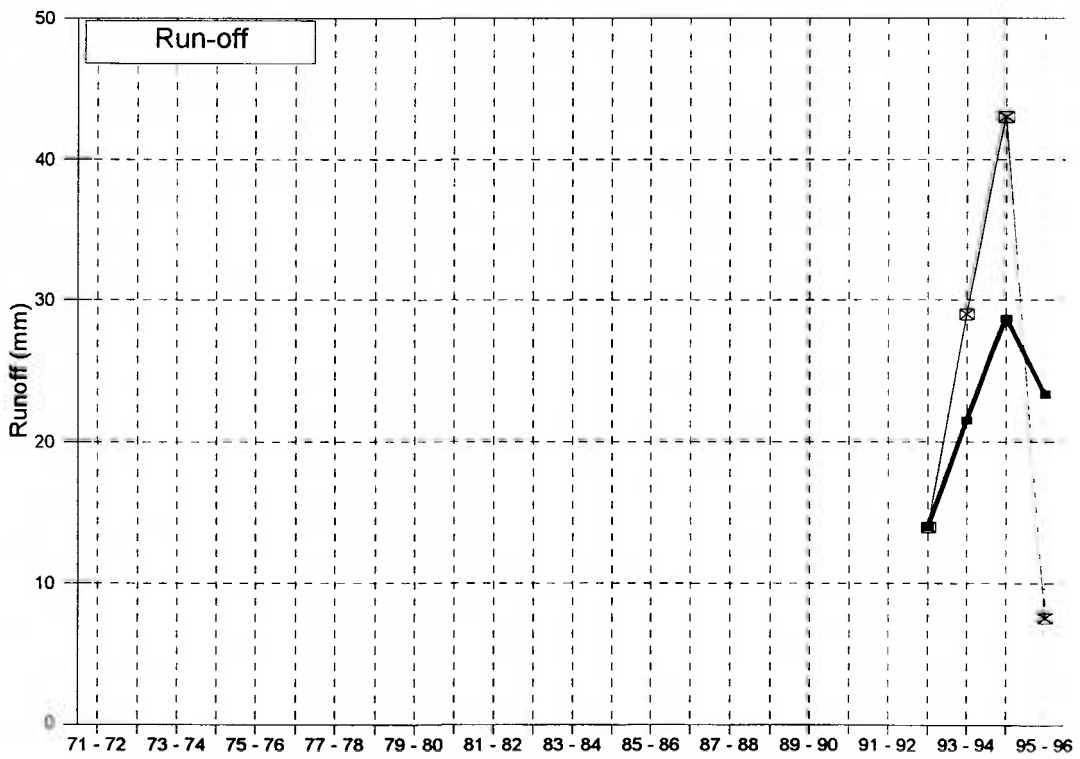
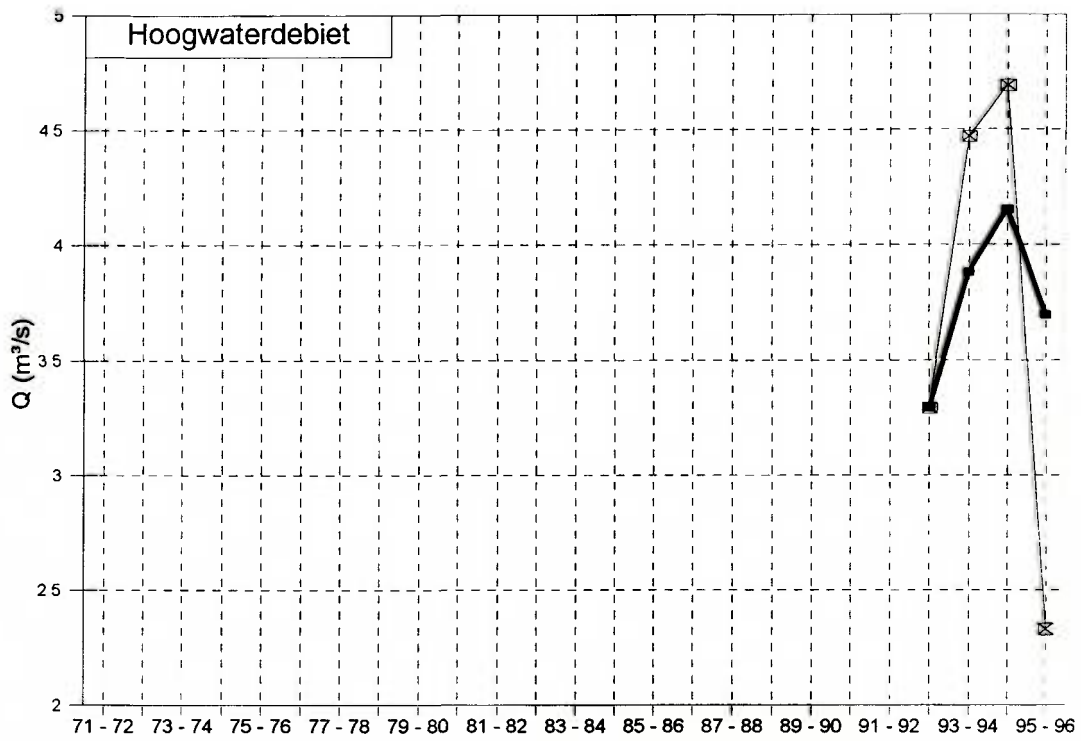


Uurwaarden van neerslag, debiet en basisafvoer

Station 042 - Kleine Aa te Wildert



Station 042 : Kleine Aa / Essen - Wild

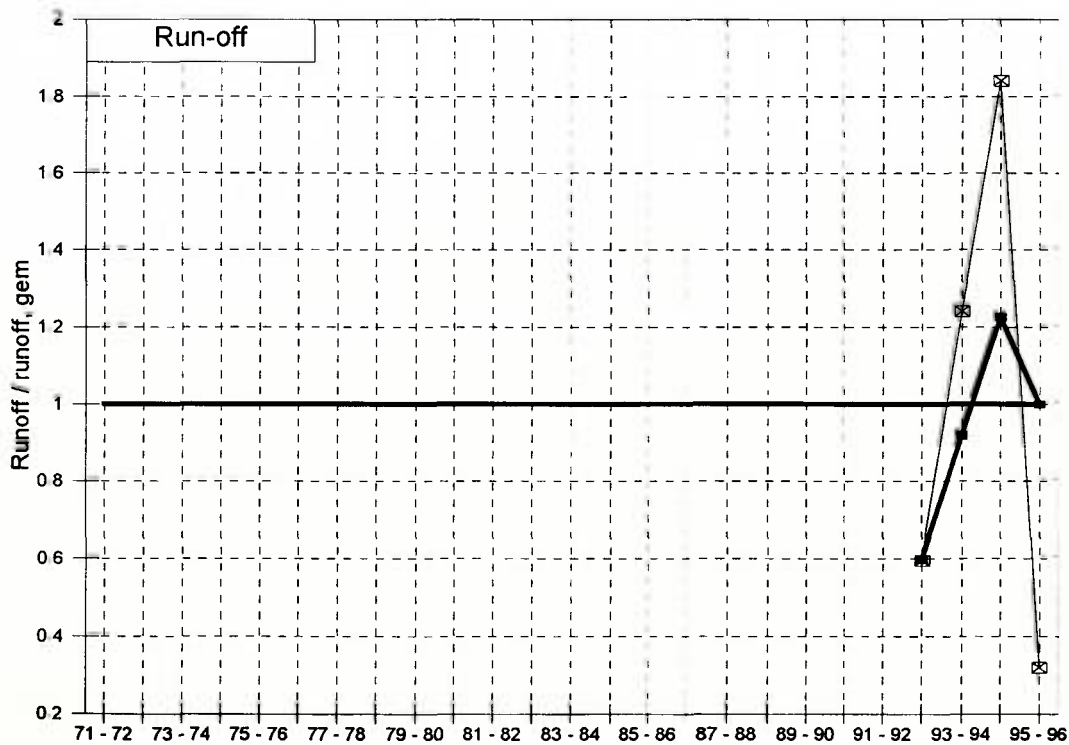
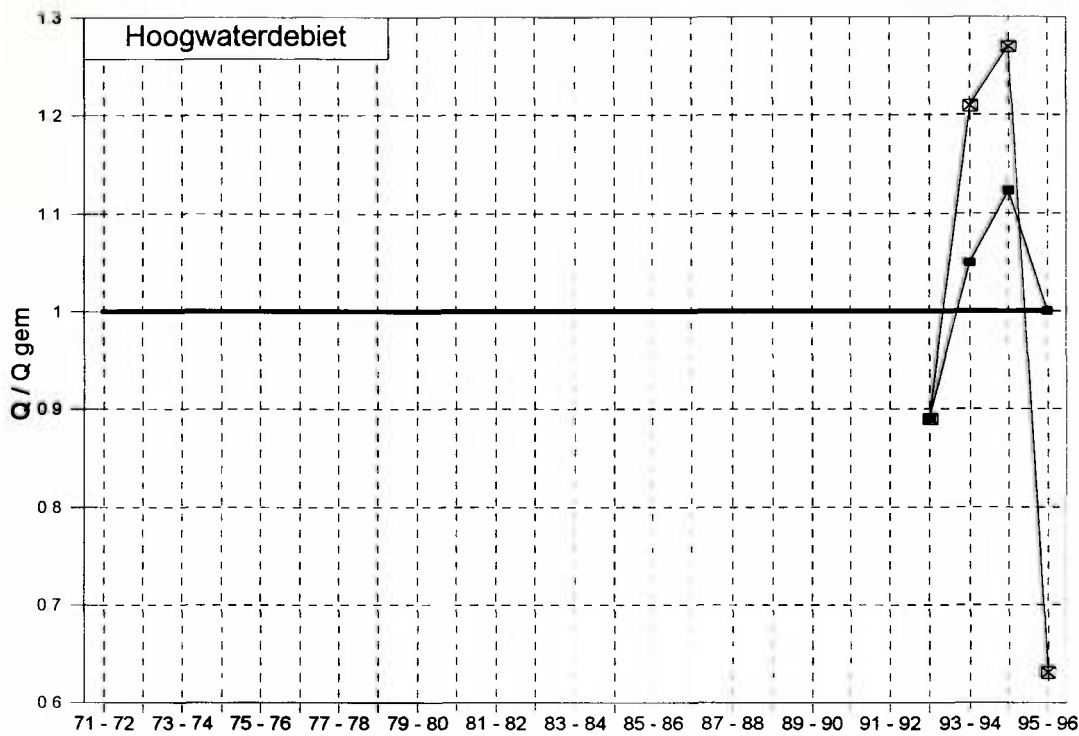


— doorlopend gemiddelde

—x— Jaarmaxima

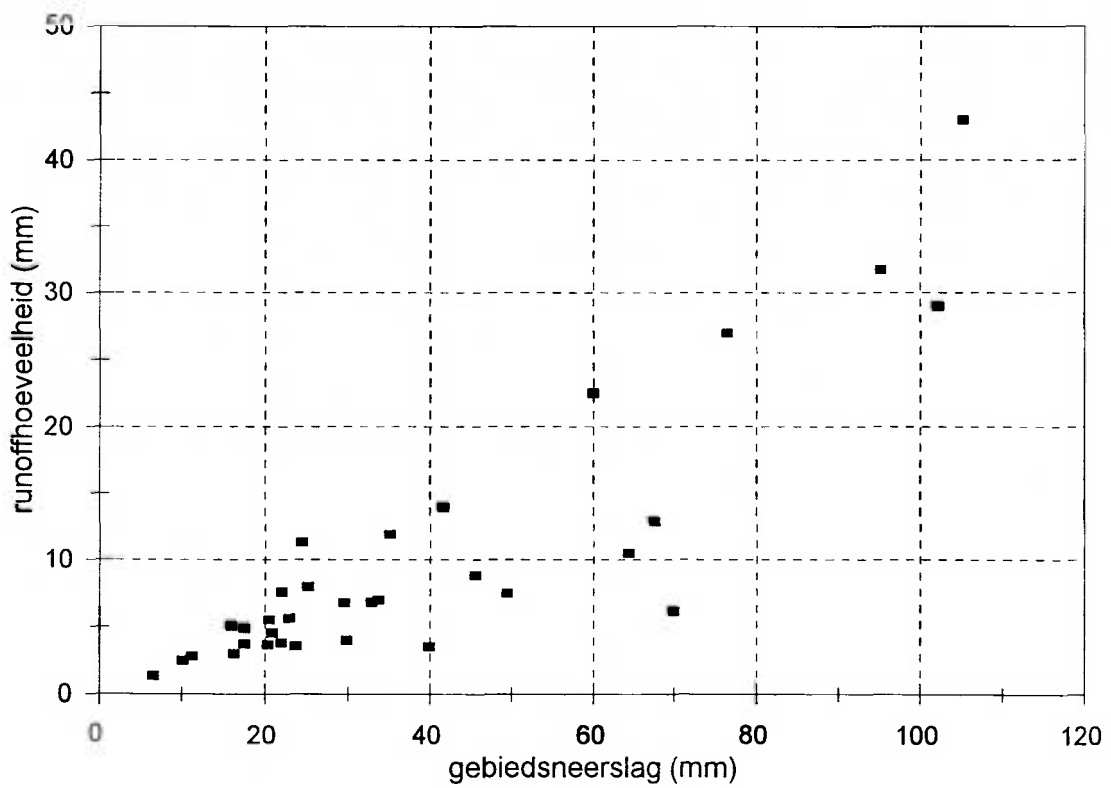
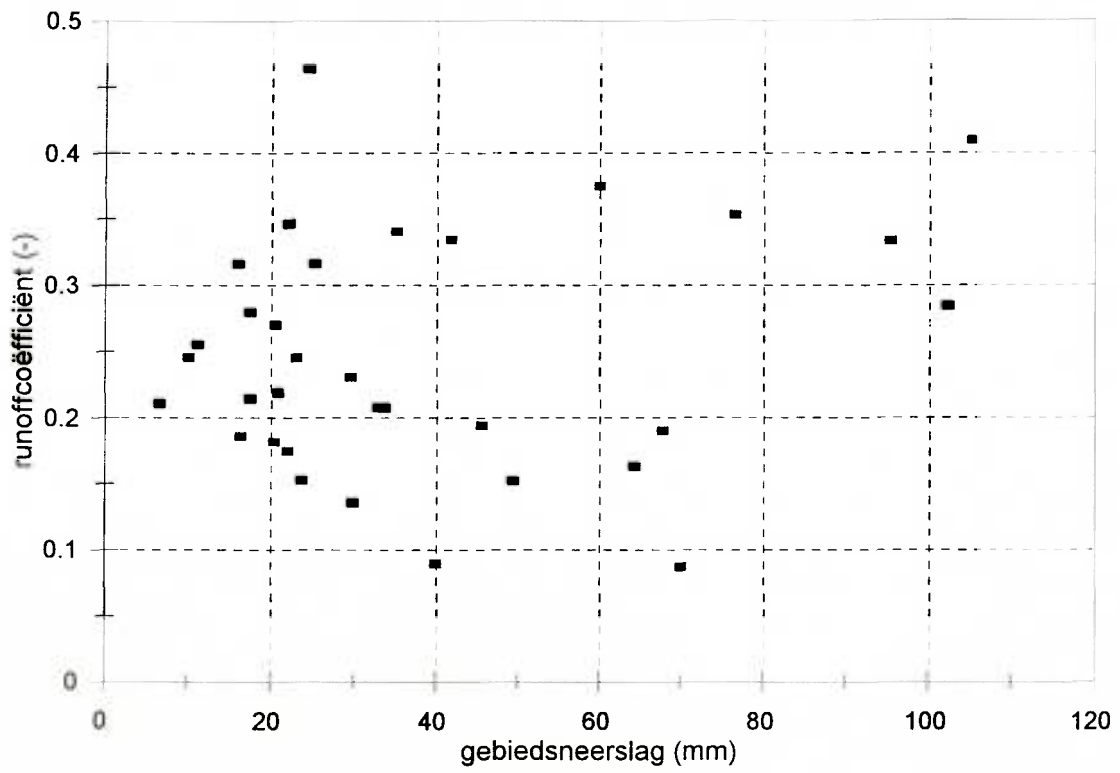
—■— 5-jaargemiddelde

Station 042 : Kleine Aa / Essen - Wild



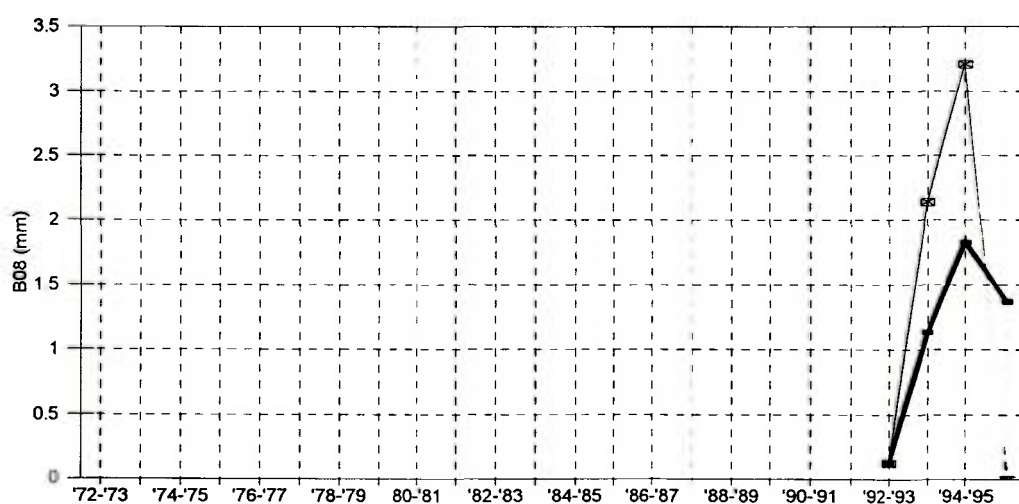
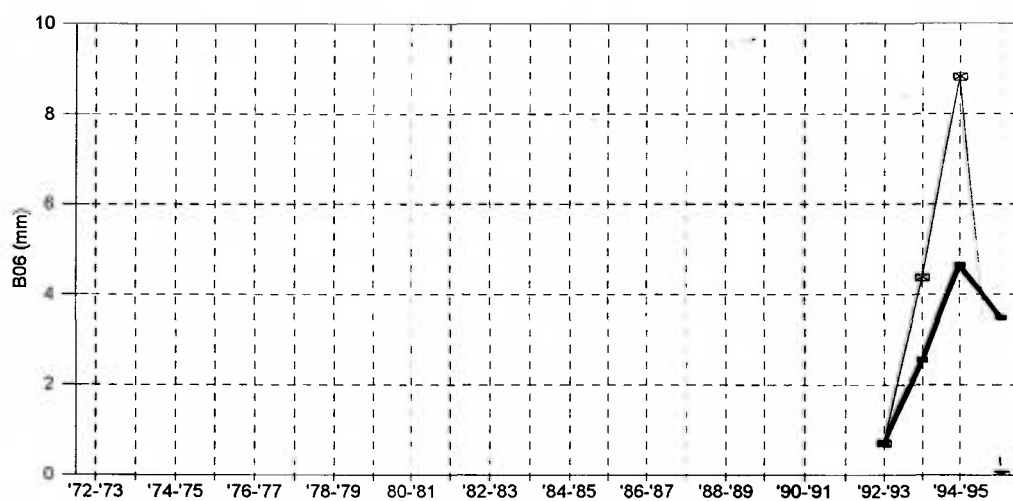
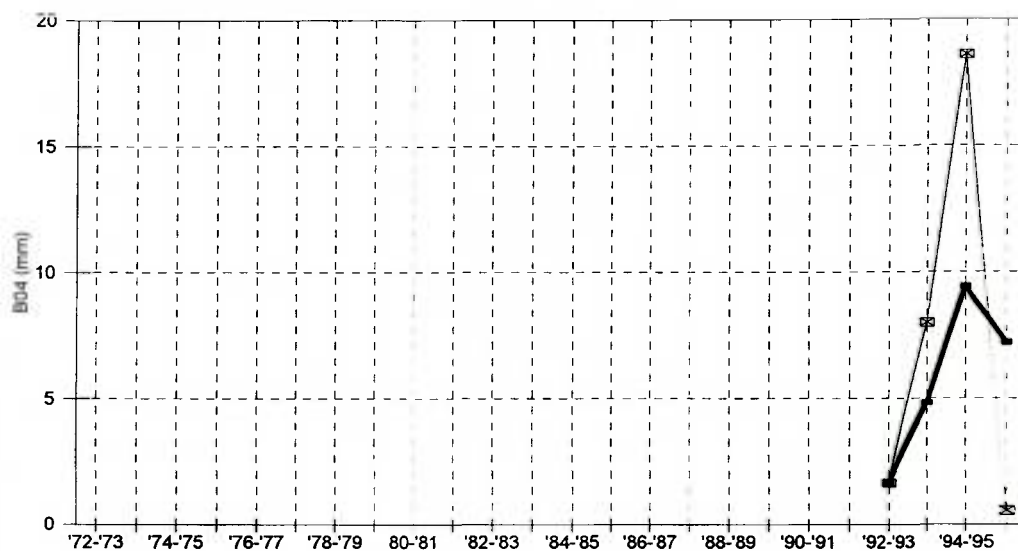
— doorlopend gemiddelde —x— Jaarmaxima = 5-jaargemiddelde

Station 042 : Kleine Aa / Essen



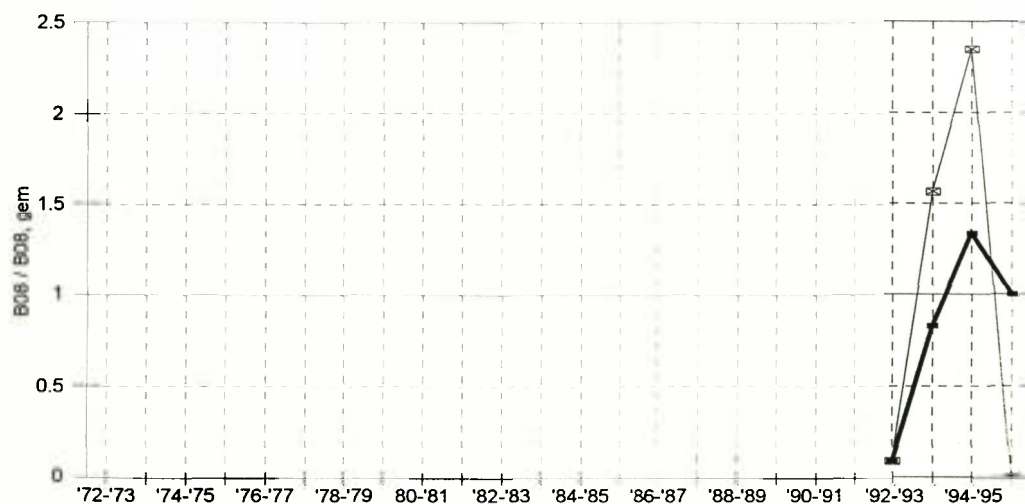
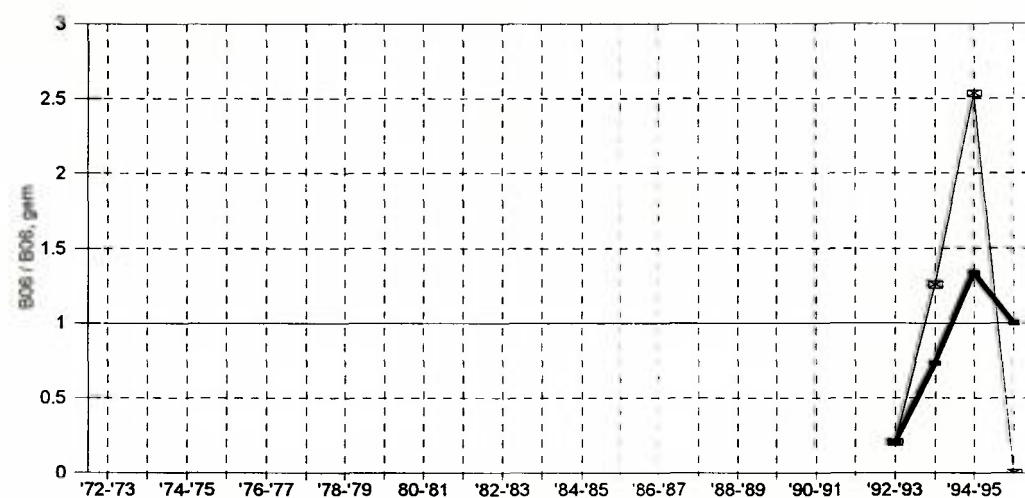
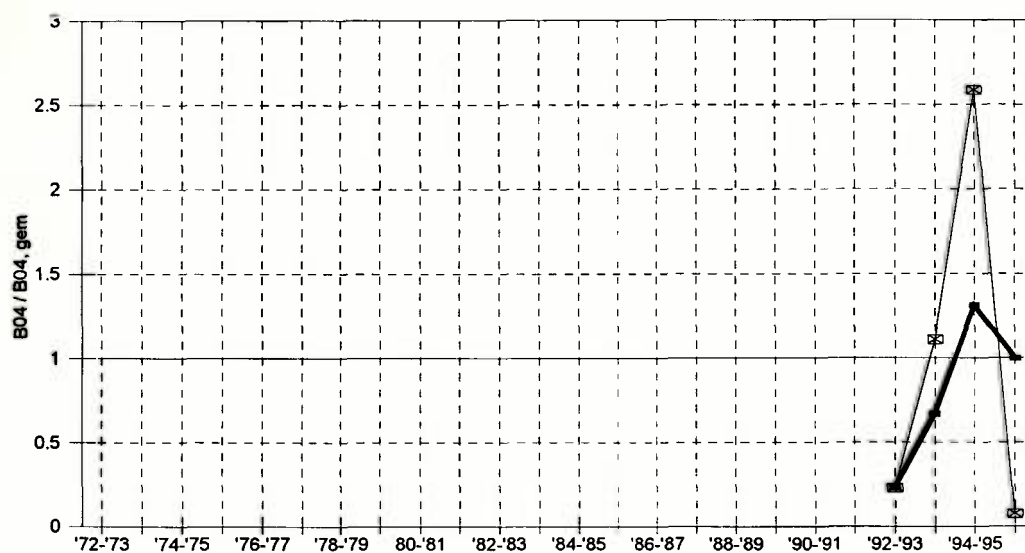
Jaarmaxima van bergingen					
Station 042 : Kleine Aa / Essen			Gemidd. jaarmax : 3 695m ³ /s		
Waterjaar	piekdebiet (m ³ /s)	datum	(mm)	berging (uur)	datum
Bergingen boven 0,3 . Qgem					
'92 -'93	3 290	12/12/92	2 30	64	12/12/92
'93 -'94	4 470	30/12/93	12 37	418	07/01/94
'94 -'95	4 691	29/01/95	26 05	1285	31/01/95
'95 -'96	2 331	12/02/96	1 08	38	13/02/96
Bergingen boven 0,4 . Qgem					
'92 -'93	3 290	12/12/92	1 65	40	12/12/92
'93 -'94	4 470	30/12/93	7 98	251	03/01/94
'94 -'95	4 691	29/01/95	18 61	543	31/01/95
'95 -'96	2 331	12/02/96	0 55	23	13/02/96
Bergingen boven 0,5 . Qgem					
'92 -'93	3 290	12/12/92	1 13	27	12/12/92
'93 -'94	4 470	30/12/93	5 70	167	01/01/94
'94 -'95	4 691	29/01/95	12 60	241	30/01/95
'95 -'96	3 367	08/06/96	0 02	2	08/06/96
Bergingen boven 0,6 . Qgem					
'92 -'93	3 290	12/12/92	0 71	18	12/12/92
'93 -'94	4 470	30/12/93	4 37	107	01/01/94
'94 -'95	4 691	29/01/95	8 81	184	30/01/95
'95 -'96	2 331	12/02/96	0 01	2	12/02/96
Bergingen boven 0,7 . Qgem					
'92 -'93	3 290	12/12/92	0 38	13	12/12/92
'93 -'94	4 470	30/12/93	3 18	57	31/12/93
'94 -'95	4 691	29/01/95	5 16	140	30/01/95
'95 -'96			0 00	0	
Bergingen boven 0,8 . Qgem					
'92 -'93	3 290	12/12/92	0 12	8	12/12/92
'93 -'94	4 470	30/12/93	2 14	46	31/12/93
'94 -'95	4 691	29/01/95	3 21	50	30/01/95
'95 -'96			0 00	0	

Station 042 : Kleine Aa /Essen-Wildert



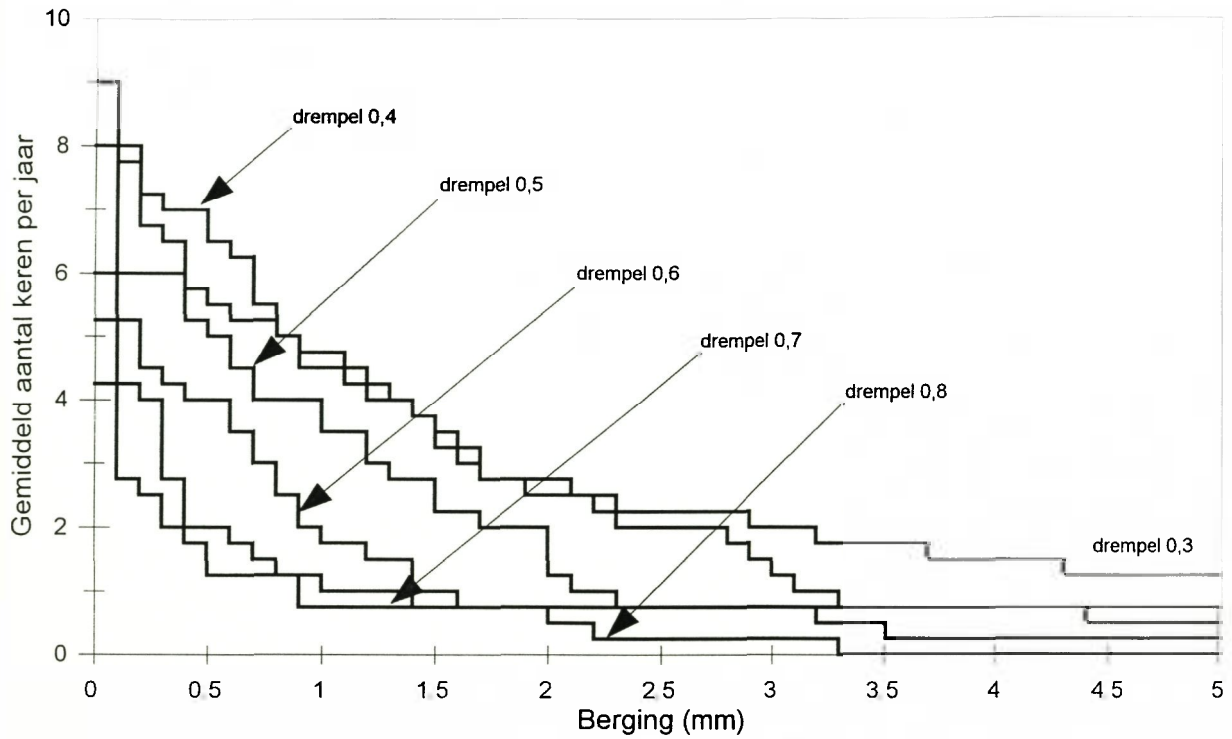
— doorlopend gemiddelde —○— Jaarmaxima —■— 5-jaargemiddelde

Station 042 : Kleine Aa /Essen-Wildert

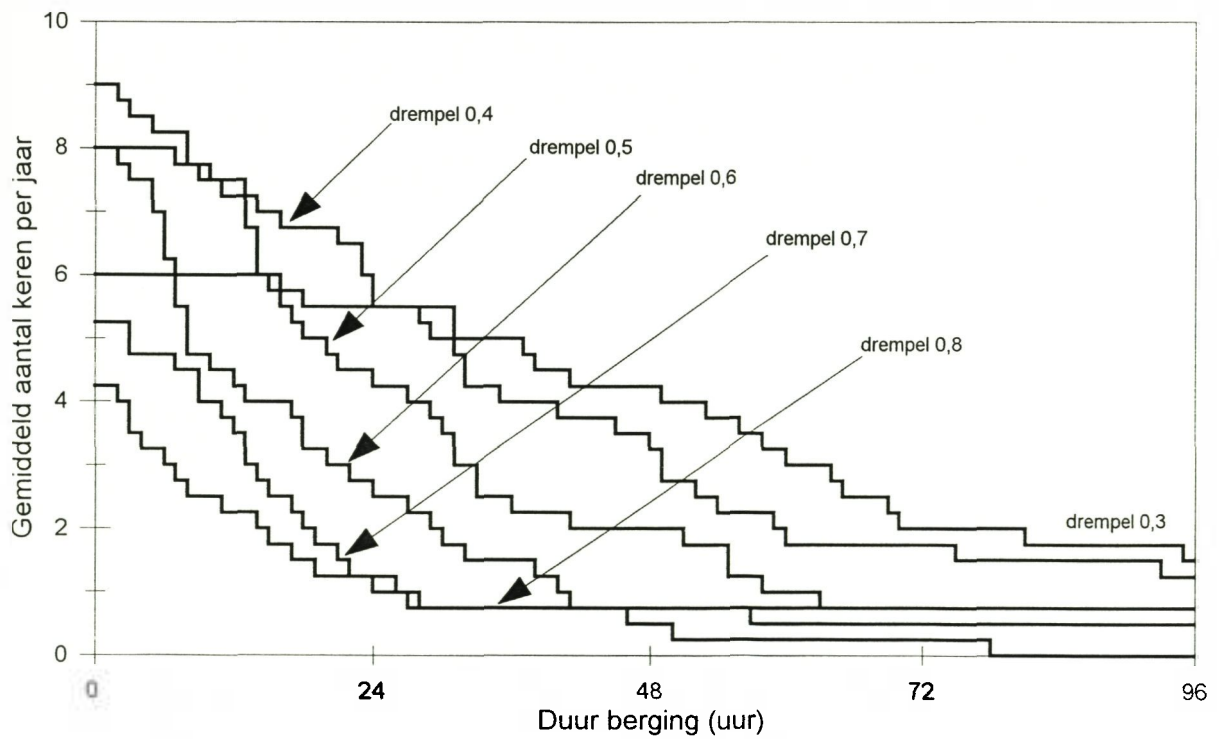


— doorlopend gemiddelde —□— Jaarmaxima — 5-jaargemiddelde

Station 042 - Kleine Aa te Wildert



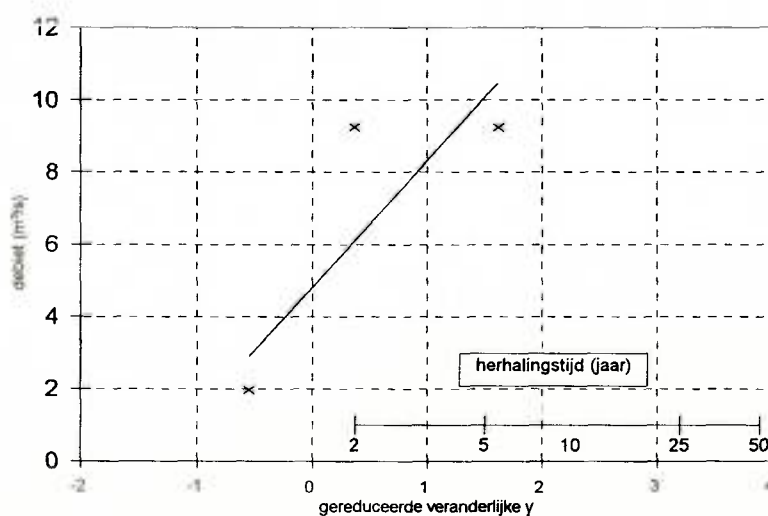
Station 042 - Kleine Aa te Wildert



5. Station 044
**De Kleine Aa
te Wuustwezel**

Station nr. 044 : Kleine Aa te Wuustwezel

Nr.	Waterjaar	Datum	Hoogte (cm)	Debiet (m³/s)
1	'95 - '96	29/08/96	29	1.972
2	'93 - '94	31/12/93	101	9.245
3	'94 - '95	30/01/95	101	9.245



Herhalingstijd (jaar)	Debiet (m³/s)	Spec. afvoer (l/s.ha)
2	6.084	1.64
5	10.048	2.70
10	12.673	3.41
25	15.990	4.30
50	18.450	4.96

Station 044 : Kleine Aa te Wuustwezel**Runoffhoeveelheden**

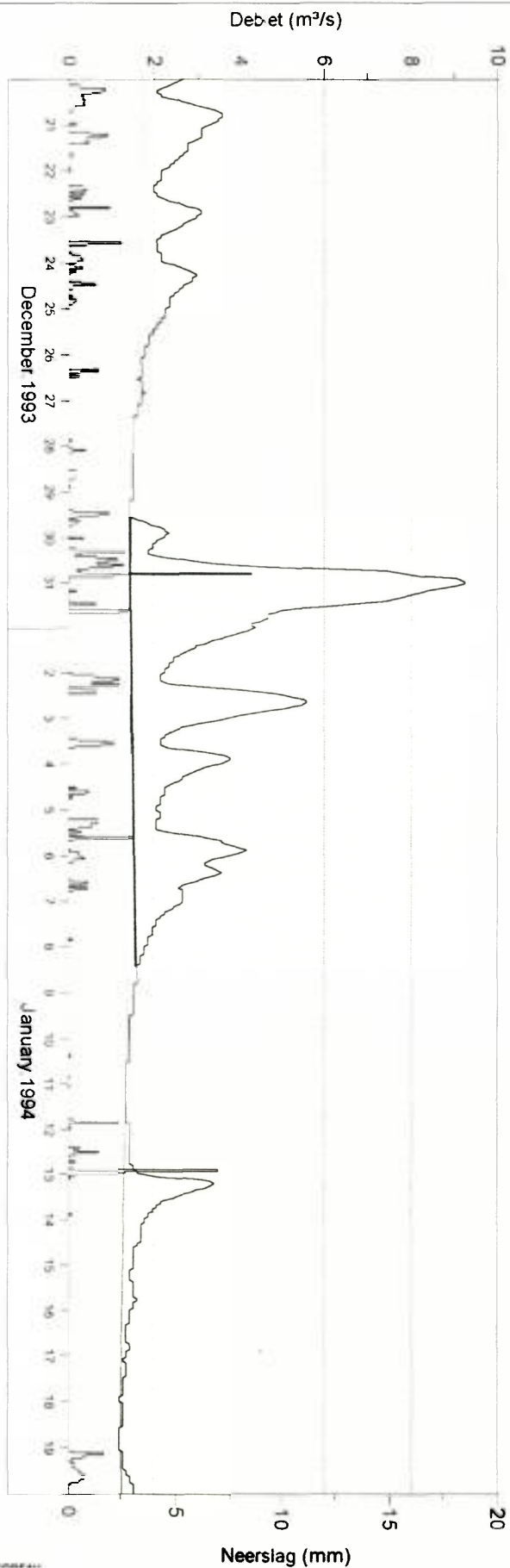
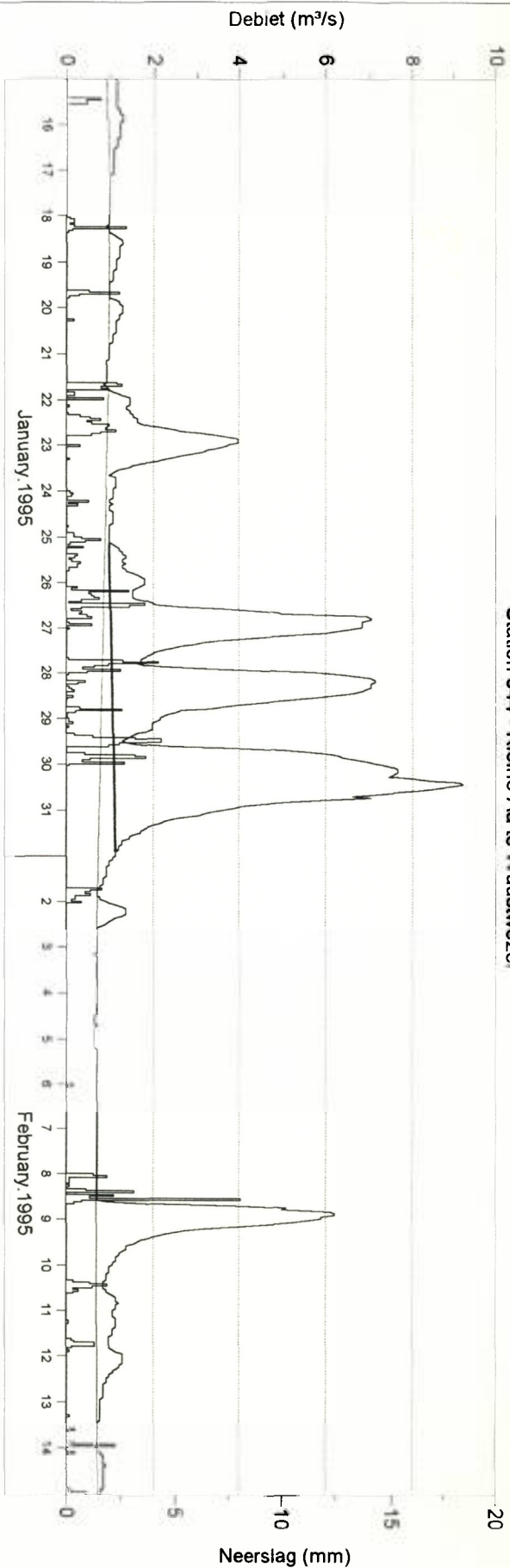
Stroomgebied = 3718 ha

Tijdreeks : 1993 - '96

Nr.	Was van (datum $Q_{\max}$)	$q_{\max}$ (l/s ha)	q_{begin} (l/s ha)	q_{eind} (l/s ha)	Neerslag som (mm)	Neerslag duur (uur)	Concentratie tijd (uur)	Runoff (mm)	Runoff- Coeff. (-)	Runoff duur (uur)
1	30/01/95	1.44	0.15	0.18	83.9	145	26	24.7	0.29	163
2	31/12/93	1.44	0.23	0.25	84.5	238	16	23.6	0.28	238
3	04/04/94	0.71	0.15	0.18	85.2	232	41	18.3	0.22	307
4	28/12/94	1.09	0.09	0.09	93.8	189	10	16.0	0.17	224
5	05/06/94	0.85	0.11	0.15	89.1	221	31	11.5	0.13	242
6	14/11/93	1.25	0.08	0.14	46.7	70	22	10.6	0.23	131
7	13/12/93	0.79	0.21	0.26	62.2	150	16	10.0	0.16	143
8	23/01/94	0.71	0.20	0.24	46.6	197	18	9.4	0.20	255
9	19/03/94	0.87	0.15	0.17	45.4	102	22	8.5	0.19	167
10	19/12/93	0.62	0.25	0.26	49.4	142	14	8.2	0.17	167
11	19/02/95	0.85	0.14	0.15	26.1	83	12	5.9	0.23	90
12	08/02/95	0.96	0.11	0.11	29.9	94	10	5.5	0.18	118
13	16/02/95	0.57	0.12	0.14	28.6	91	17	4.6	0.16	93
14	09/12/94	0.55	0.09	0.15	33.1	70	24	3.9	0.12	124
15	22/01/95	0.62	0.13	0.15	27.1	28	14	3.1	0.11	48
16	25/02/95	0.62	0.13	0.14	16.5	64	19	2.9	0.17	58
17	03/12/96	0.59	0.17	0.18	25.3	17	13	2.3	0.09	50

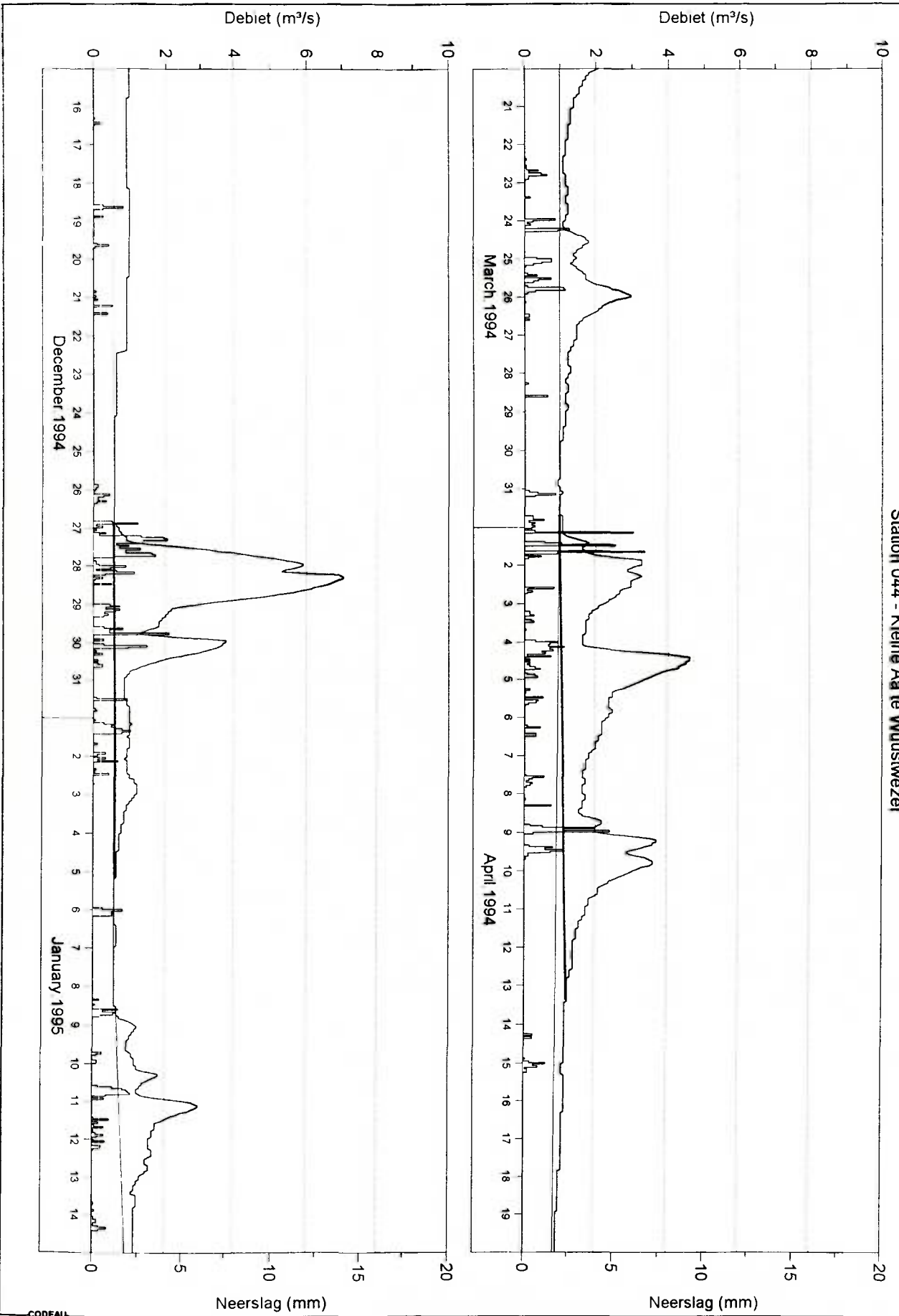
Uurwaarden van neerslag, debiet en basisafvoer

Station 044 - Kleine Aa te Wustwezel



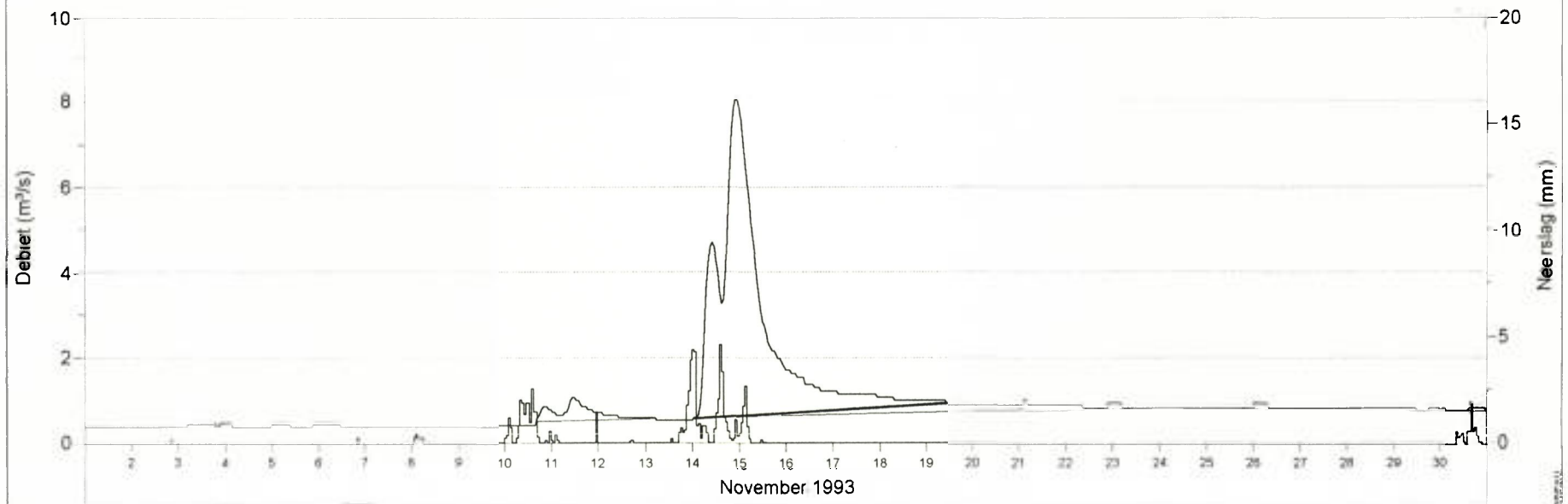
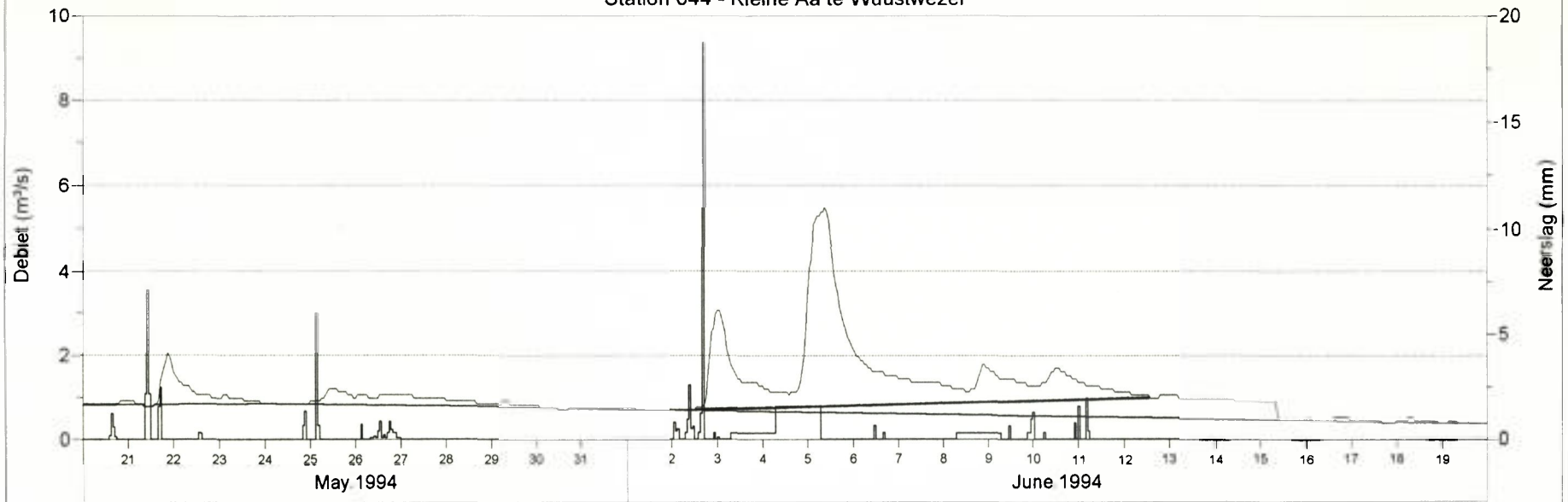
Uurwaarden van neerslag, debiet en basisafvoer

Station 044 - Kleine Aa te Wuustwezel

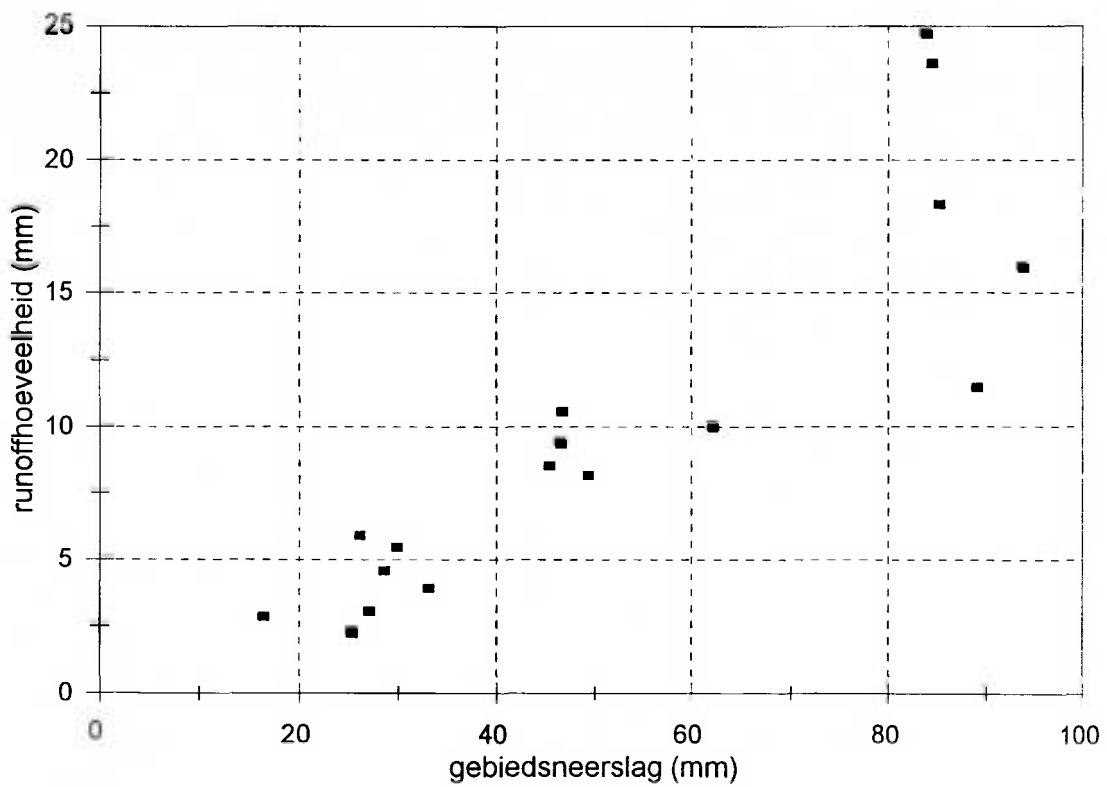
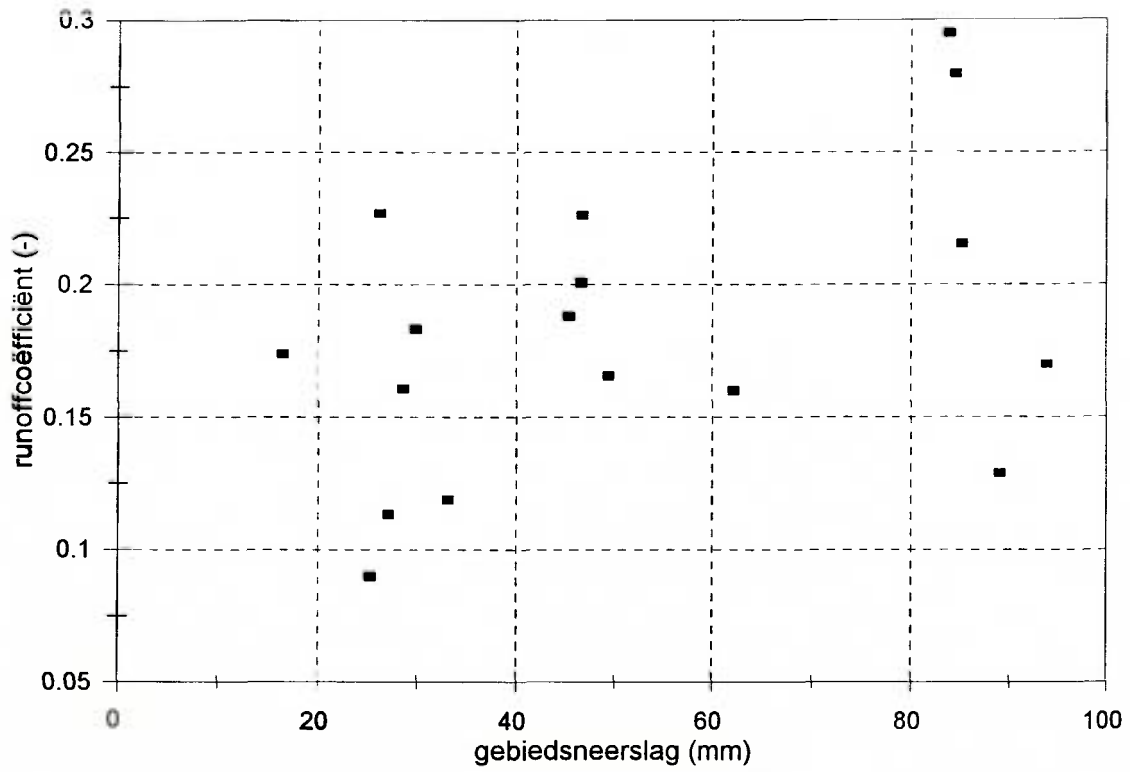


Uurwaarden van neerslag, debiet en basisafvoer

Station 044 - Kleine Aa te Wuustwezel

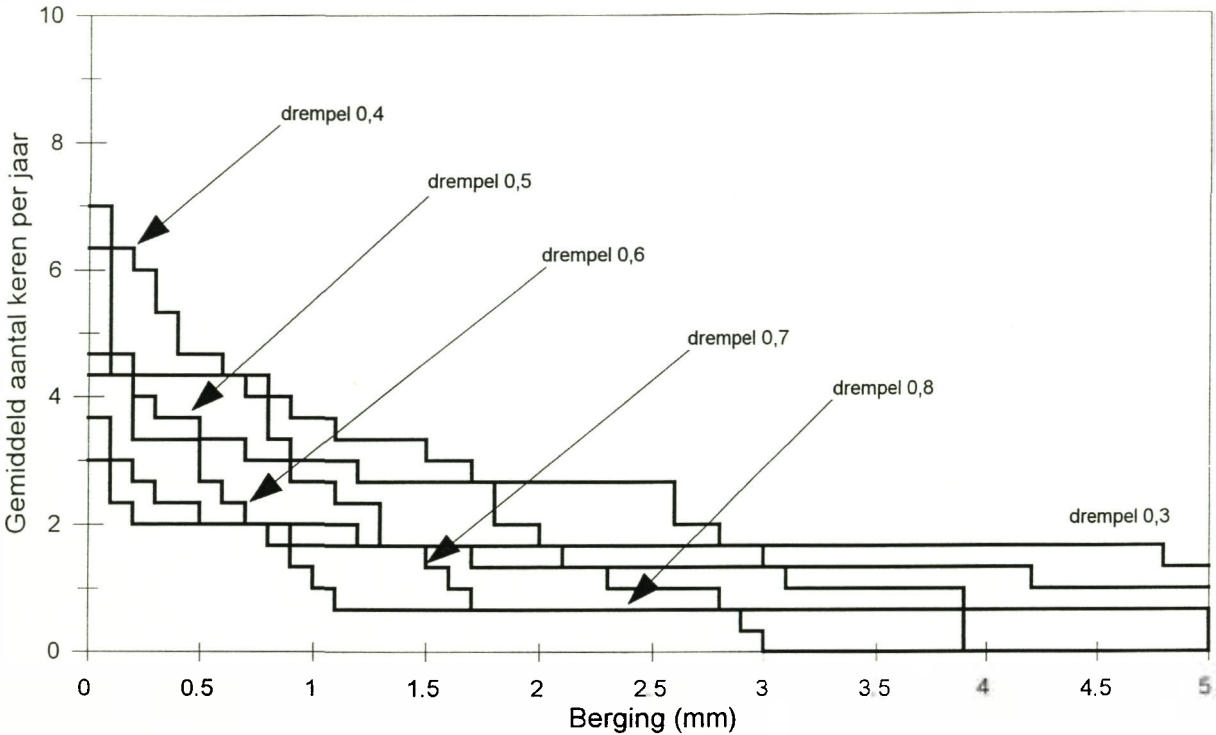


Station 044 : Kleine Aa / Minderhout

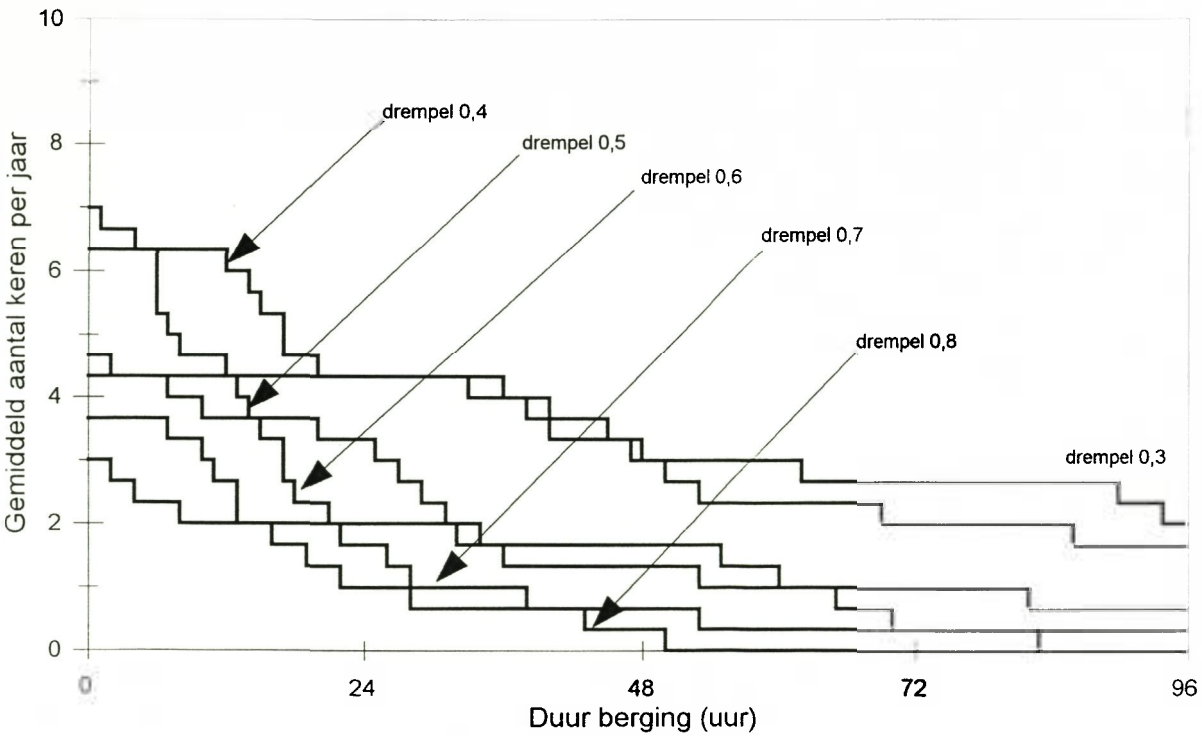


Jaarmaxima van bergingen					
Station 044 : Kleine Aa / Wuustwezel			Gemidd. jaarmax. : 6.821 m³/s		
Waterjaar	piekdebiet (m³/s)	datum	(mm)	berging (uur)	datum
Bergingen boven 0,3 . Qgem					
'93 -'94	9.245	31/12/93	25.17	1627	07/01/94
'94 -'95	9.245	30/01/95	17.25	435	31/01/95
'95 -'96			0.00	0	
Bergingen boven 0,4 . Qgem					
'93 -'94	9.245	31/12/93	10.11	355	06/01/94
'94 -'95	9.245	30/01/95	12.94	237	31/01/95
'95 -'96			0.00	0	
Bergingen boven 0,5 . Qgem					
'93 -'94	9.245	31/12/93	6.47	216	03/01/94
'94 -'95	9.245	30/01/95	8.78	177	31/01/95
'95 -'96			0.00	0	
Bergingen boven 0,6 . Qgem					
'93 -'94	9.245	31/12/93	4.96	123	01/01/94
'94 -'95	9.245	30/01/95	4.97	65	30/01/95
'95 -'96			0.00	0	
Bergingen boven 0,7 . Qgem					
'93 -'94	9.245	31/12/93	3.81	83	31/12/93
'94 -'95	9.245	30/01/95	3.87	53	30/01/95
'95 -'96			0.00	0	
Bergingen boven 0,8 . Qgem					
'93 -'94	9.245	31/12/93	2.96	50	31/12/93
'94 -'95	9.245	30/01/95	2.85	43	30/01/95
'95 -'96			0.00	0	

Station 044 - Kleine Aa te Wuustwezel



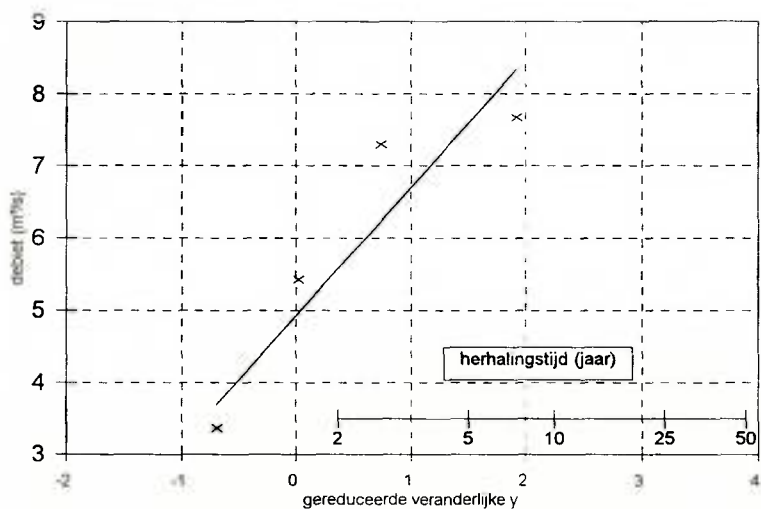
Station 044 - Kleine Aa te Wuustwezel



6. Station 047
De Mark
te Minderhout

Station nr. 047 : Mark te Hoogstraten

Nr.	Waterjaar	Datum	Hoogte (cm)	Debiet (m³/s)
1	'95 - '96	8/06/96	128	3.367
2	'92 - '93	12/01/93	183	5.427
3	'93 - '94	31/12/93	233	7.300
4	'94 - '95	30/01/95	243	7.675



Herhalingstijd (jaar)	Debiet (m³/s)	Spec. afvoer (l/s.ha)
2	5.568	0.95
5	7.584	1.30
10	8.918	1.53
25	10.605	1.82
50	11.856	2.03

Station 047 : Mark te Hoogstraeten

Runoffhoeveelheden

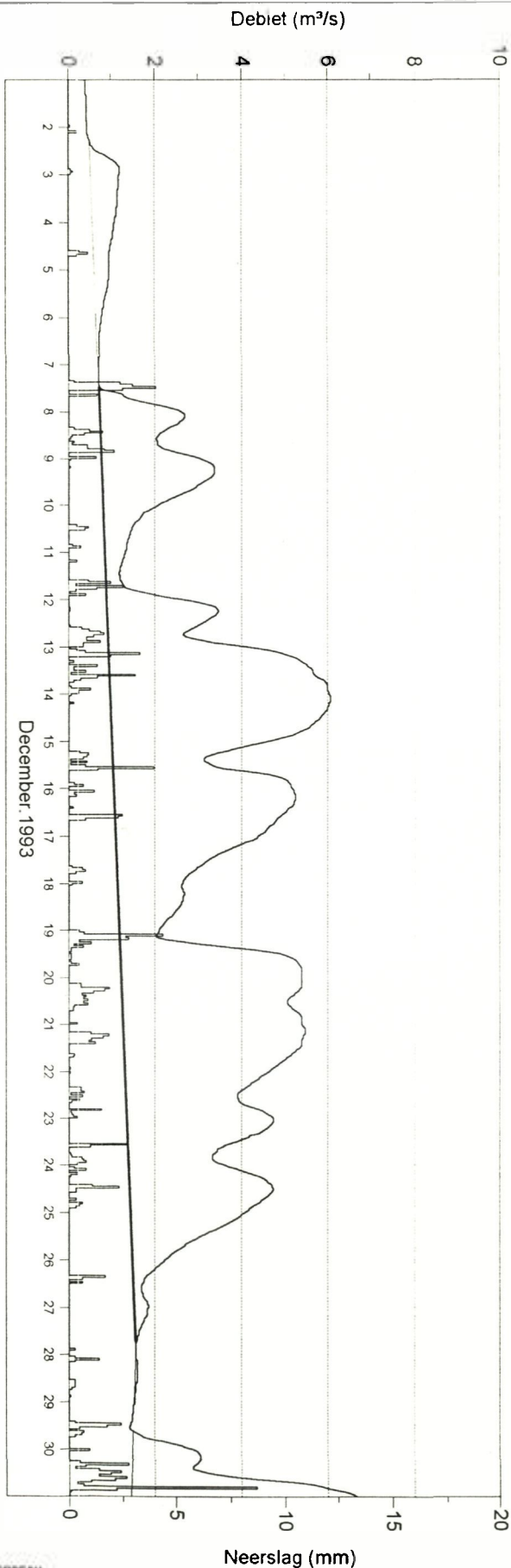
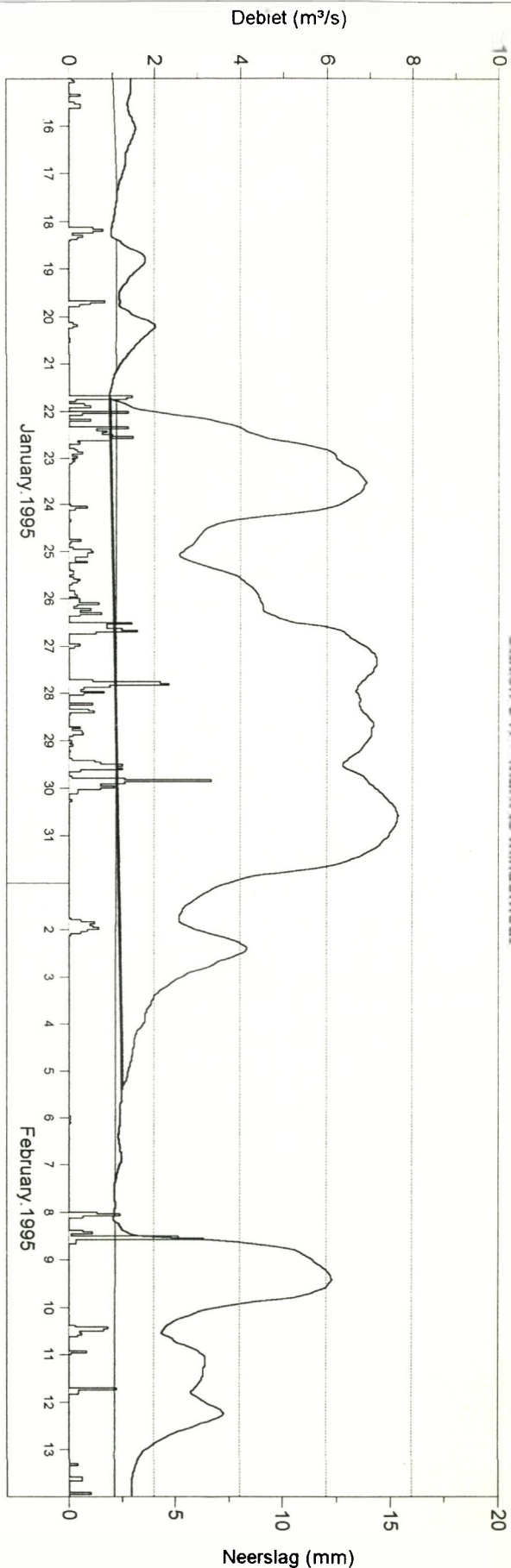
Stroomgebied = 5842 ha

Tijdreeks : 1992 - '96

Nr.	Was van (datum Q _{max})	q _{max} (l/s ha)	q _{begin} (l/s ha)	q _{eind} (l/s ha)	Neerslag som (mm)	Neerslag duur (uur)	Concentratie tijd (uur)	Runoff (mm)	Runoff- Coeff (-)	Runoff duur (uur)
1	30/01/95	0.76	0.09	0.12	114.9	275	31	46.1	0.40	352
2	14/12/93	0.60	0.07	0.16	139.5	460	39	42.1	0.30	488
3	28/12/94	0.73	0.04	0.07	90.0	272	31	28.9	0.32	290
4	31/12/93	0.73	0.14	0.16	77.3	224	35	28.0	0.36	252
5	02/04/94	0.61	0.08	0.09	73.5	241	20	24.3	0.33	290
6	20/02/95	0.64	0.15	0.15	51.3	203	31	17.8	0.35	244
7	12/01/93	0.54	0.05	0.08	49.9	291	47	16.9	0.34	308
8	24/01/94	0.57	0.09	0.12	51.2	250	17	15.6	0.30	279
9	18/11/92	0.50	0.08	0.11	66.4	244	49	13.4	0.20	253
10	19/03/94	0.63	0.05	0.09	46.4	95	30	12.4	0.27	170
11	11/01/95	0.55	0.06	0.10	26.8	171	21	12.0	0.45	230
12	01/03/94	0.36	0.04	0.05	37.8	333	65	11.5	0.30	384
13	15/11/93	0.60	0.07	0.09	45.9	41	34	11.2	0.24	132
14	05/06/94	0.53	0.04	0.07	77.2	219	27	10.5	0.14	249
15	04/12/96	0.55	0.04	0.06	54.2	193	32	10.1	0.19	211
16	09/02/95	0.61	0.10	0.15	27.4	92	23	9.5	0.35	131
17	03/12/92	0.44	0.10	0.10	37.0	163	25	9.0	0.24	193
18	09/12/94	0.58	0.04	0.07	32.3	78	29	7.9	0.24	144
19	21/09/94	0.32	0.07	0.08	87.7	165	46	7.4	0.08	240
20	06/03/95	0.45	0.10	0.10	25.1	116	24	7.3	0.29	143
21	29/03/95	0.33	0.06	0.06	34.6	148	58	7.1	0.21	244
22	14/10/93	0.44	0.08	0.09	49.5	82	44	6.5	0.13	182
23	15/11/94	0.44	0.06	0.06	36.8	226	28	6.0	0.16	248
24	23/01/93	0.48	0.08	0.11	24.1	130	32	6.0	0.25	144
25	31/10/94	0.31	0.04	0.04	41.4	61	37	5.6	0.14	193
26	25/04/94	0.47	0.04	0.05	25.3	71	18	5.4	0.21	161
27	12/12/92	0.44	0.09	0.10	16.1	42	29	4.7	0.29	123
28	26/03/94	0.46	0.09	0.10	20.7	102	30	4.4	0.21	128
29	25/07/93	0.37	0.05	0.05	77.5	177	25	4.4	0.06	256
30	16/09/93	0.40	0.09	0.10	56.1	134	40	4.2	0.07	166

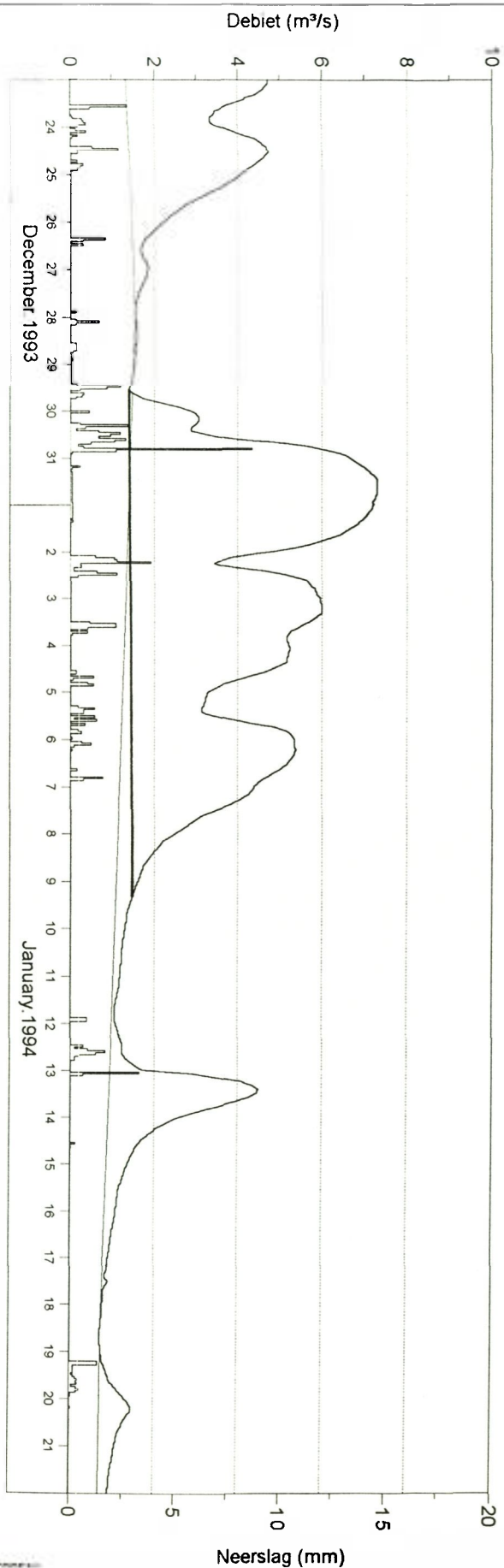
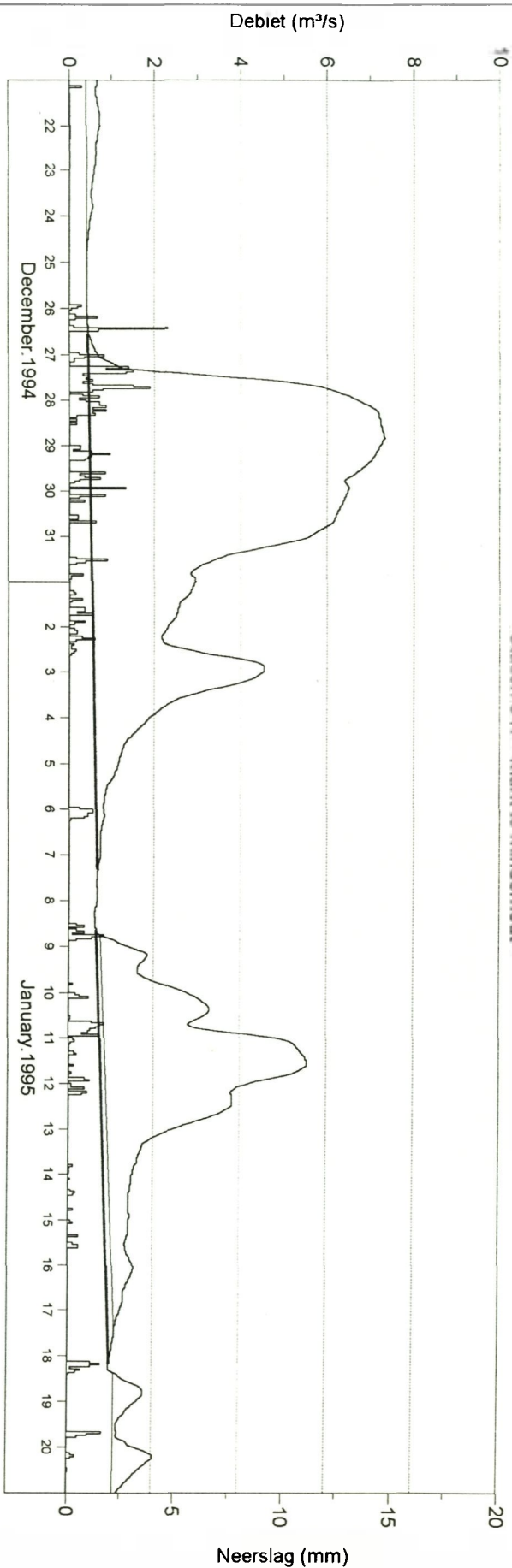
Uurwaarden van neerslag, debiet en basisafvoer

Station 047 - Mark te Minderhout



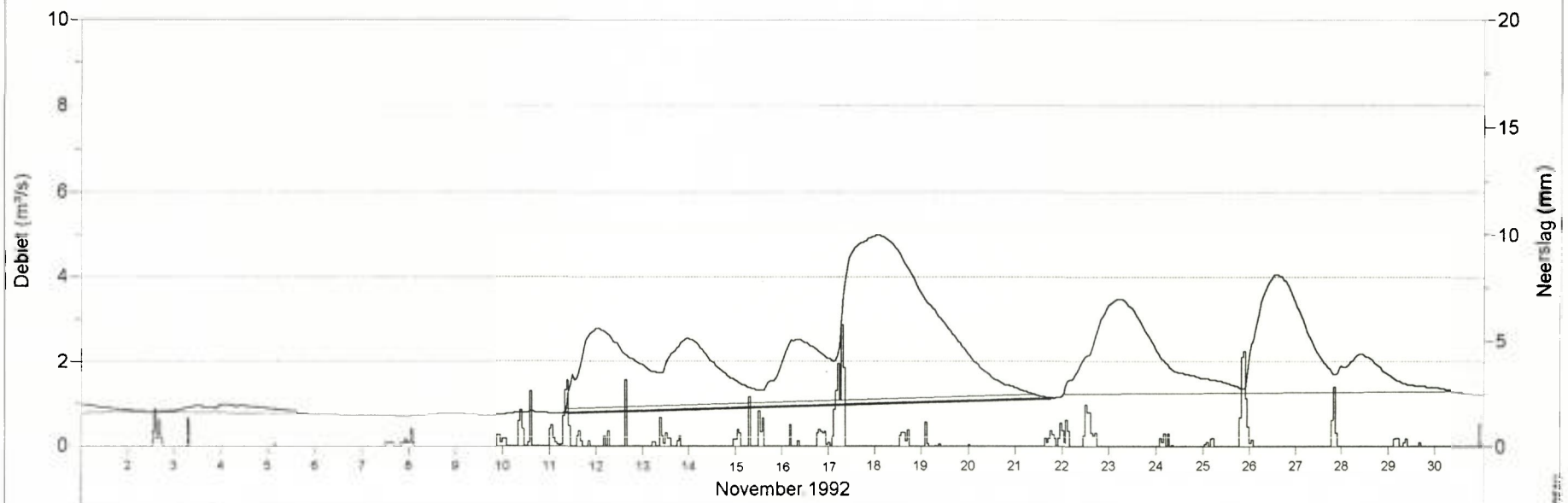
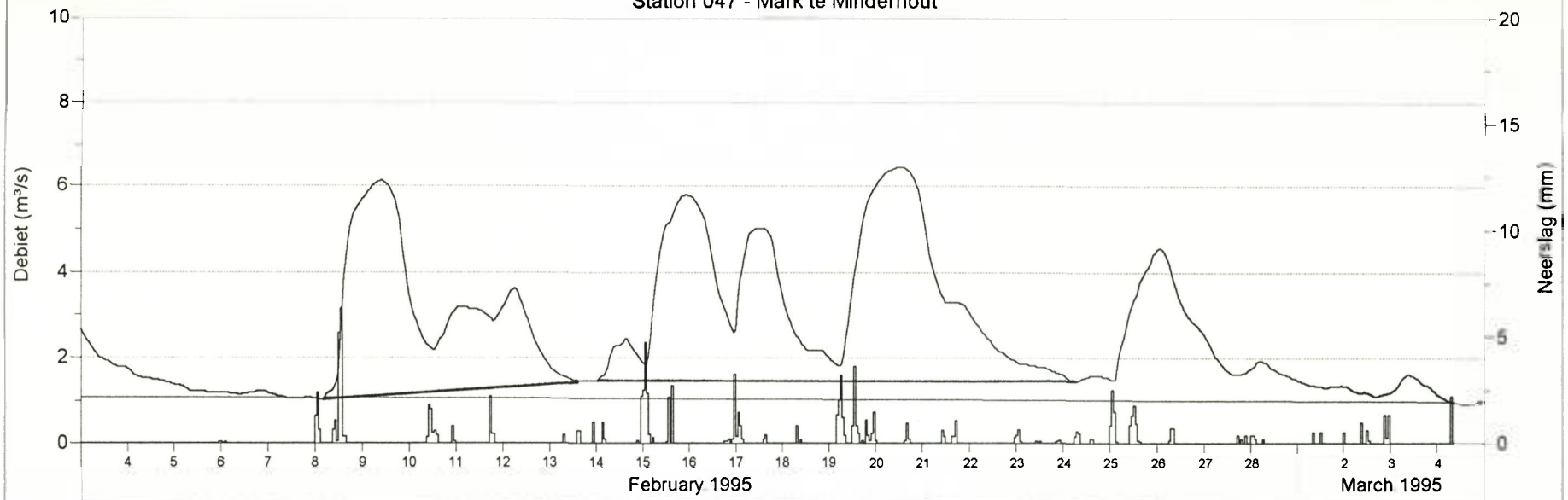
Uurwaarden van neerslag, debiet en basisafvoer

Station 047 - Mark te Minderhout

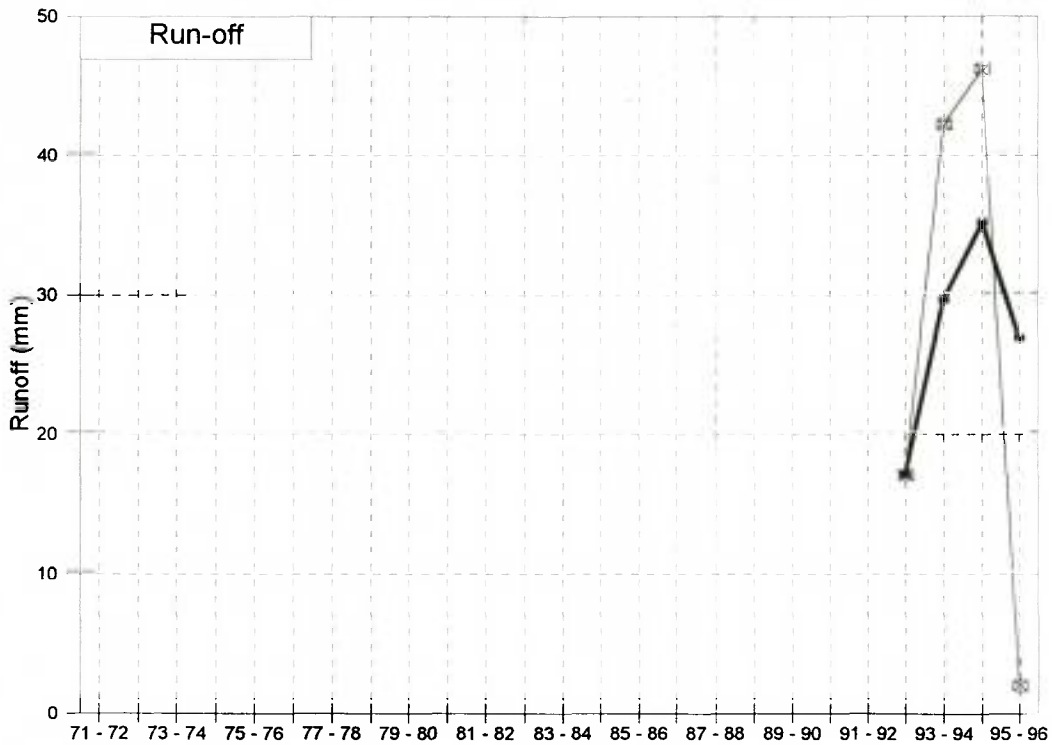
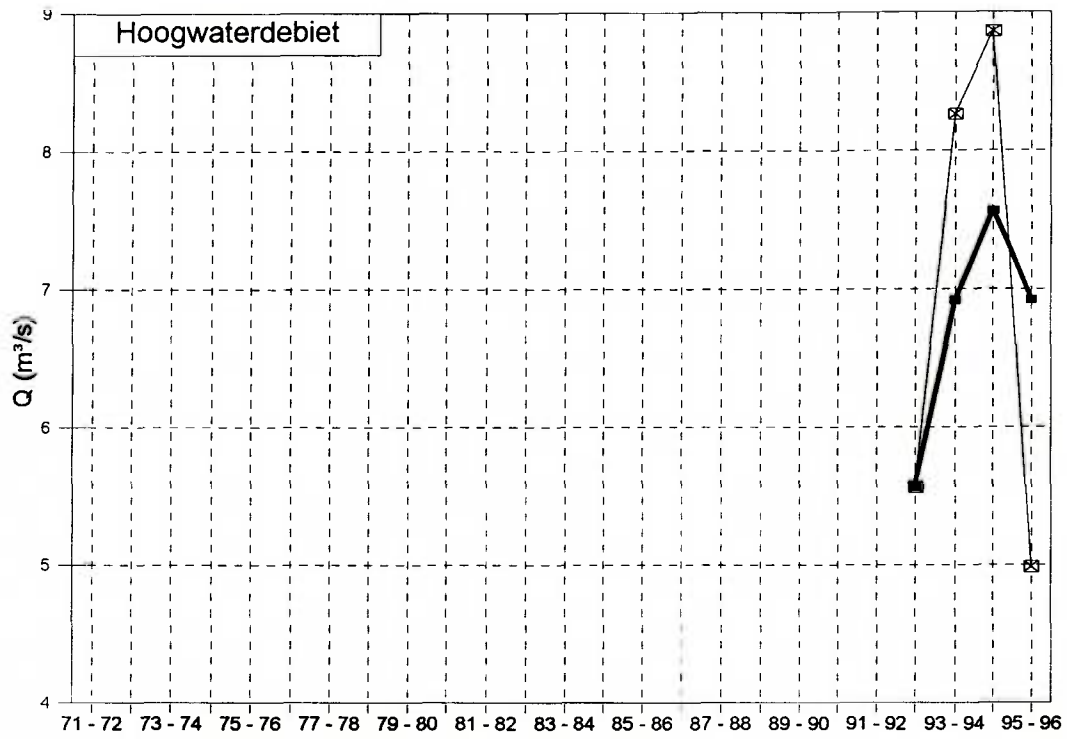


Uurwaarden van neerslag, debiet en basisafvoer

Station 047 - Mark te Minderhout



Station 047 : Mark / Minderhout

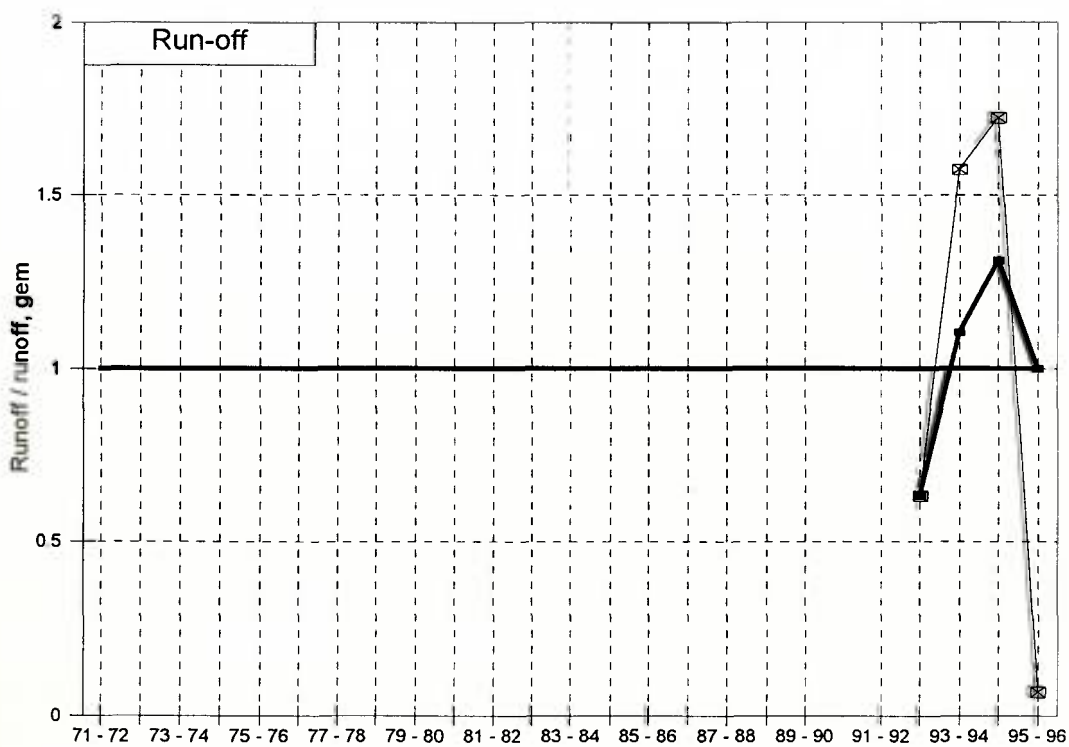
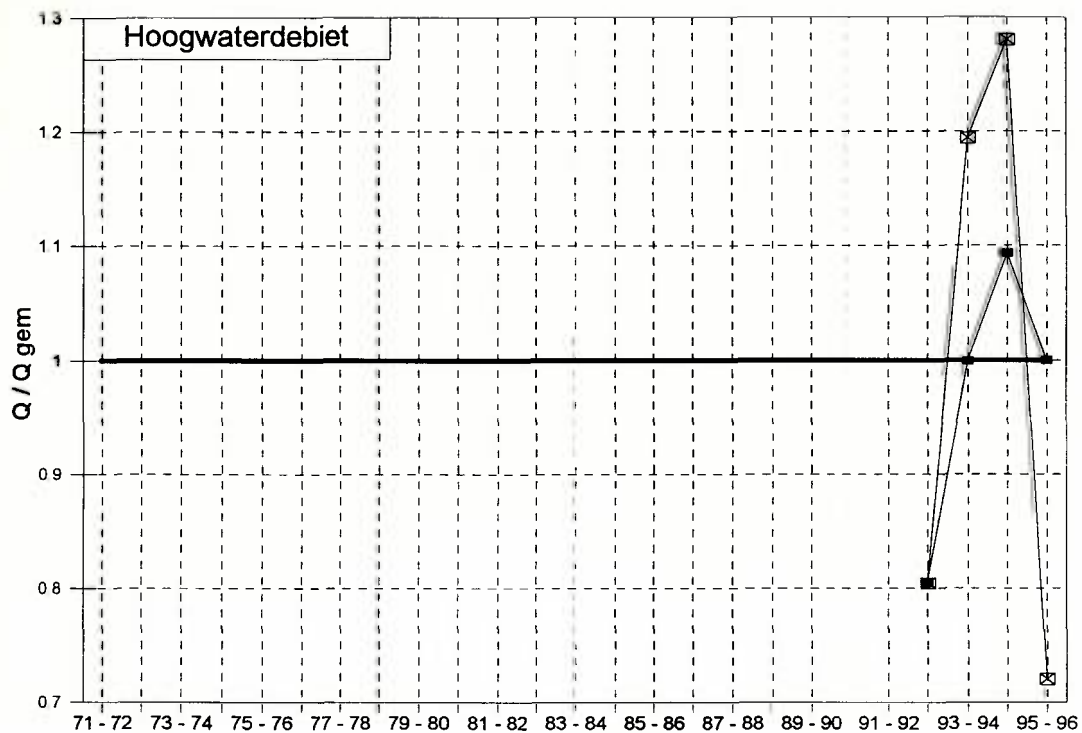


— doorlopend gemiddelde

—x— Jaarmaxima

= 5-jaargemiddelde

Station 047 : Mark / Minderhout

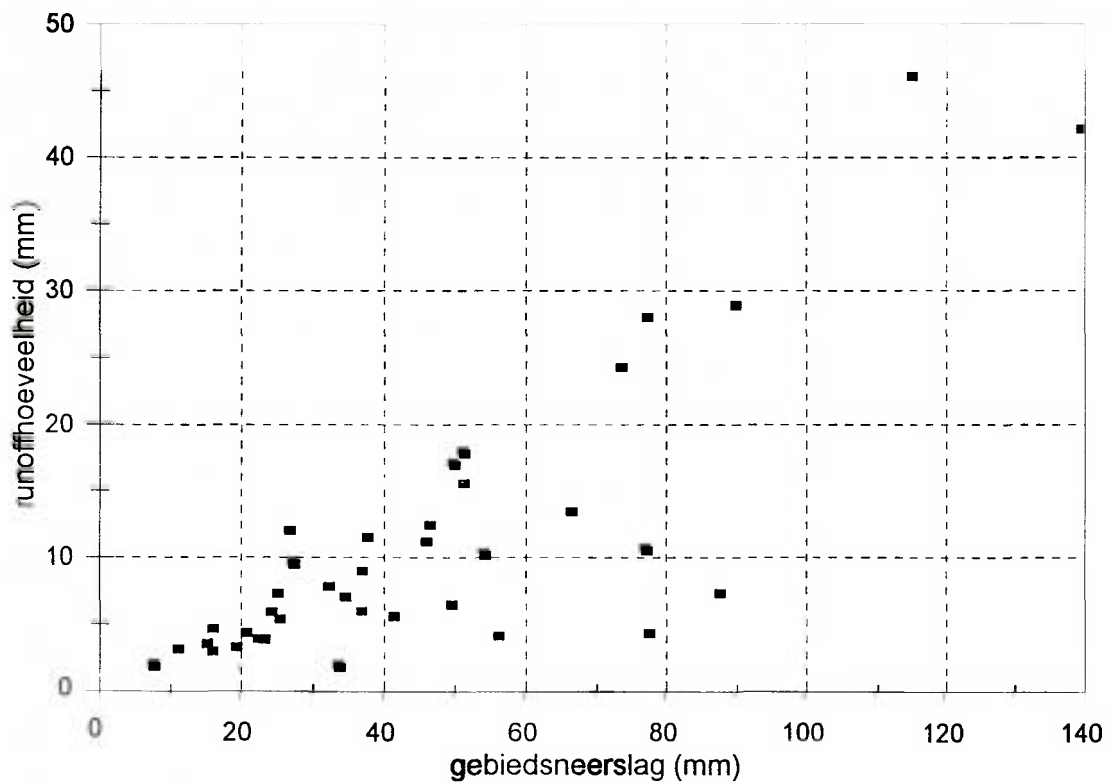
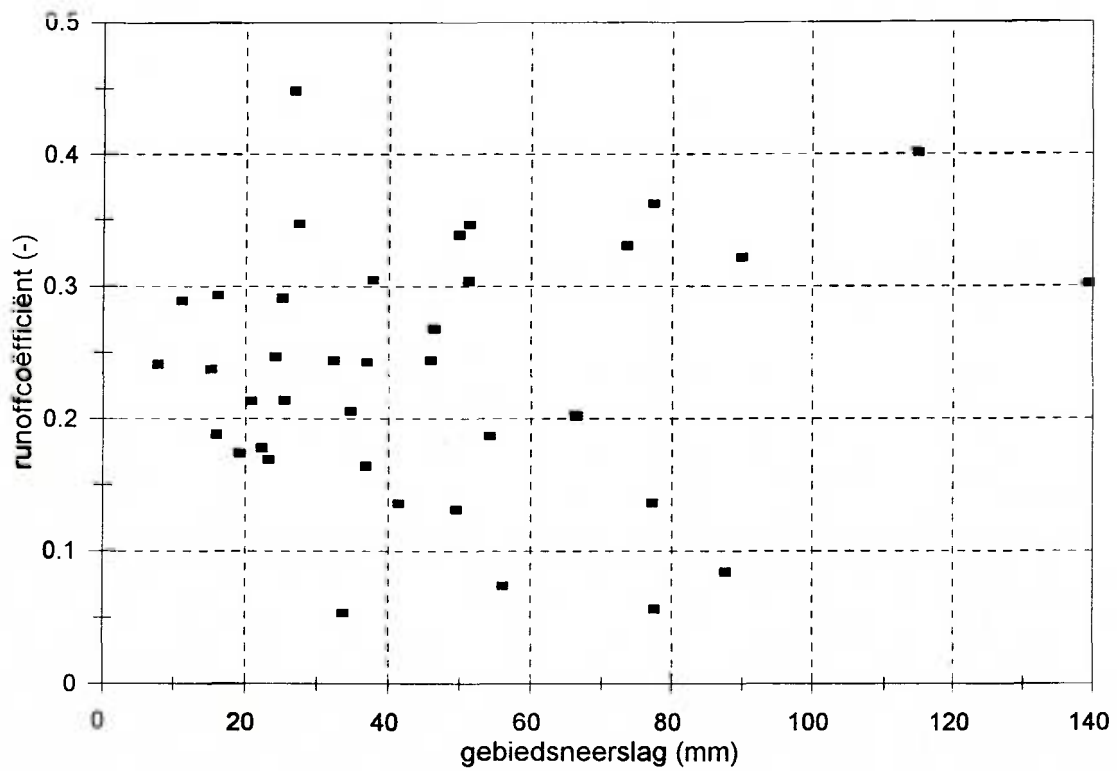


— doorlopend gemiddelde

⊠ Jaarmaxima

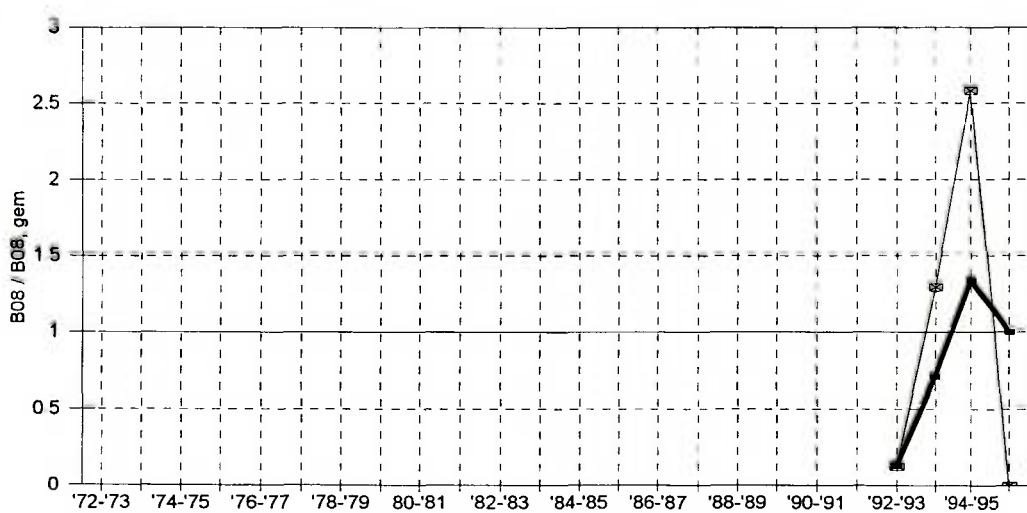
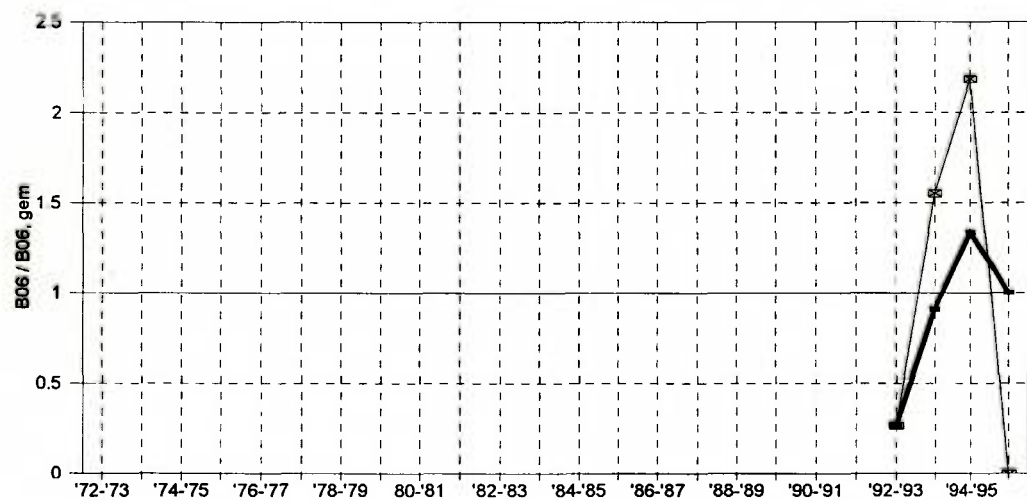
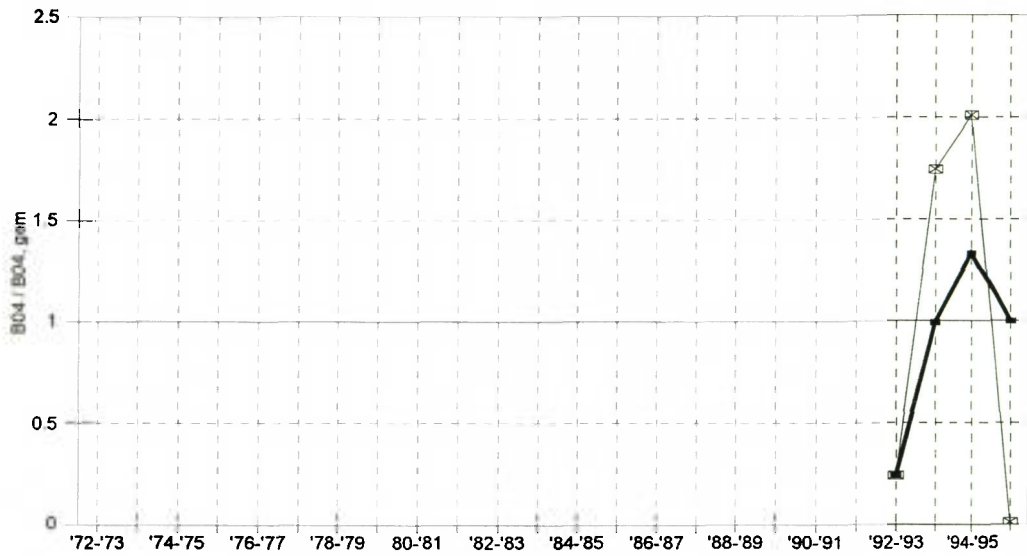
■ 5-jaargemiddelde

Station 047 : Mark / Hoogstraten



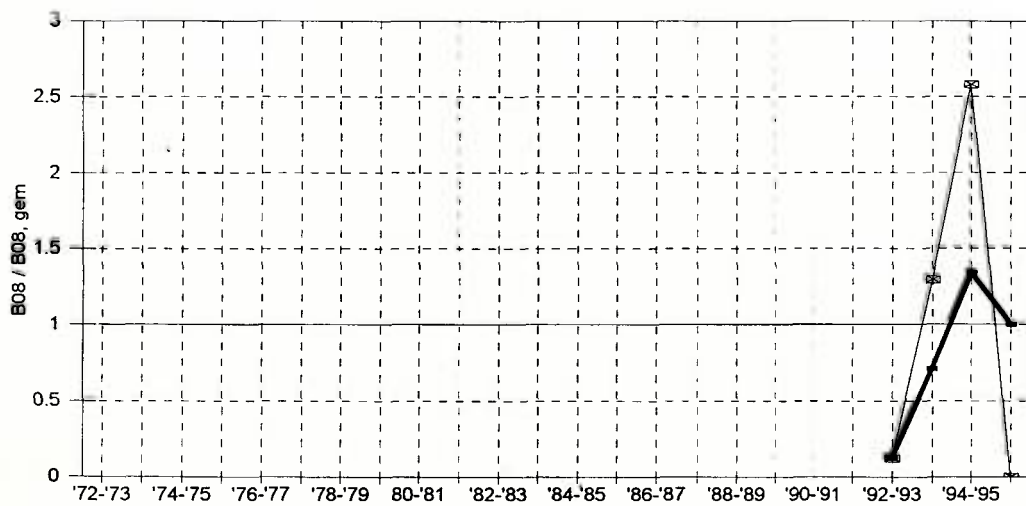
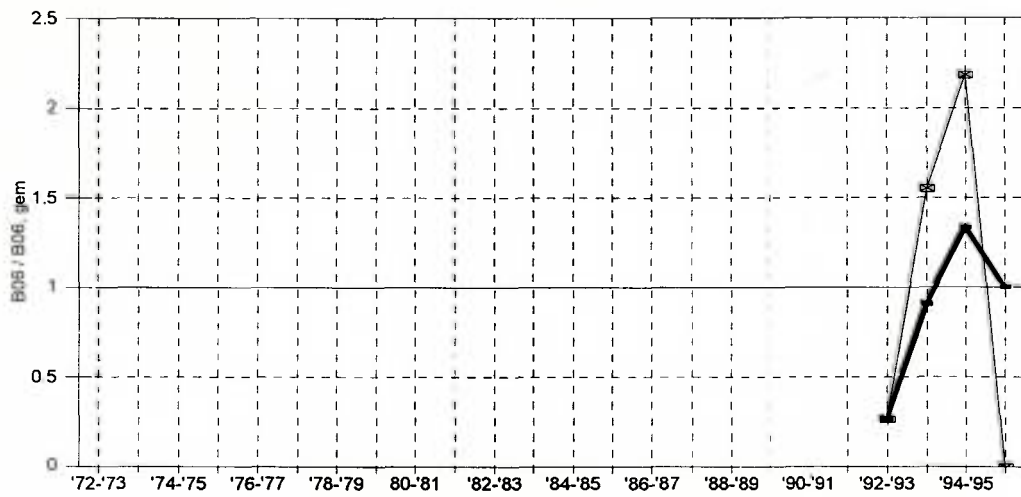
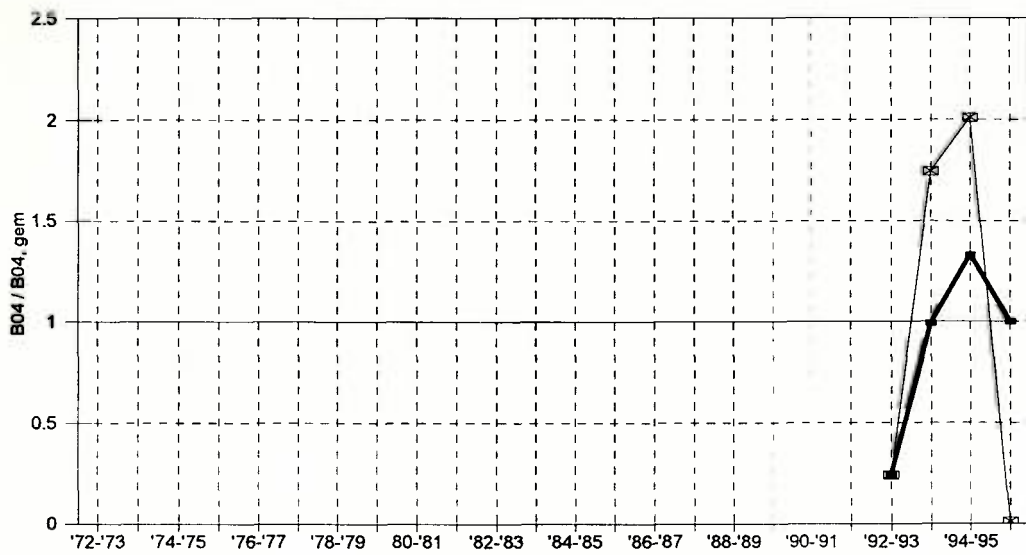
Jaarmaxima van bergingen					
Station 047 : Mark / Hoogstraeten			Gemidd. jaarmax. : 5.942m³/s		
Waterjaar	piekdebiet		berging		
	(m³/s)	datum	(mm)	(uur)	datum
Bergingen boven 0,3 Qgem					
'92 -'93	4.978	18/11/92	12.87	1231	14/12/92
'93 -'94	7.300	31/12/93	59.52	4243	01/02/94
'94 -'95	7.675	30/01/95	80.61	3720	09/03/95
'95 -'96	3.367	08/06/96	0.54	29	09/06/96
Bergingen boven 0,4 Qgem					
'92 -'93	5.427	12/01/93	5.63	226	14/01/93
'93 -'94	7.300	31/12/93	41.01	1847	08/01/94
'94 -'95	7.675	30/01/95	47.21	2592	27/02/95
'95 -'96	3.367	08/06/96	0.23	19	09/06/96
Bergingen boven 0,5 Qgem					
'92 -'93	5.427	12/01/93	3.83	154	13/01/93
'93 -'94	7.300	31/12/93	27.25	1355	07/01/94
'94 -'95	7.675	30/01/95	25.61	1336	22/02/95
'95 -'96	3.367	08/06/96	0.02	2	08/06/96
Bergingen boven 0,6 Qgem					
'92 -'93	5.427	12/01/93	2.40	103	13/01/93
'93 -'94	7.300	31/12/93	14.01	826	07/01/94
'94 -'95	7.675	30/01/95	19.71	931	01/02/95
'95 -'96			0.00	0	
Bergingen boven 0,7 Qgem					
'92 -'93	5.427	12/01/93	1.27	71	13/01/93
'93 -'94	7.300	31/12/93	8.05	278	07/01/94
'94 -'95	7.675	30/01/95	14.78	409	31/01/95
'95 -'96			0.00	0	
Bergingen boven 0,8 Qgem					
'92 -'93	5.427	12/01/93	0.49	36	13/01/93
'93 -'94	7.300	31/12/93	5.01	230	04/01/94
'94 -'95	7.675	30/01/95	10.01	337	31/01/95
'95 -'96			0.00	0	

Station 047 : Mark / Minderhout



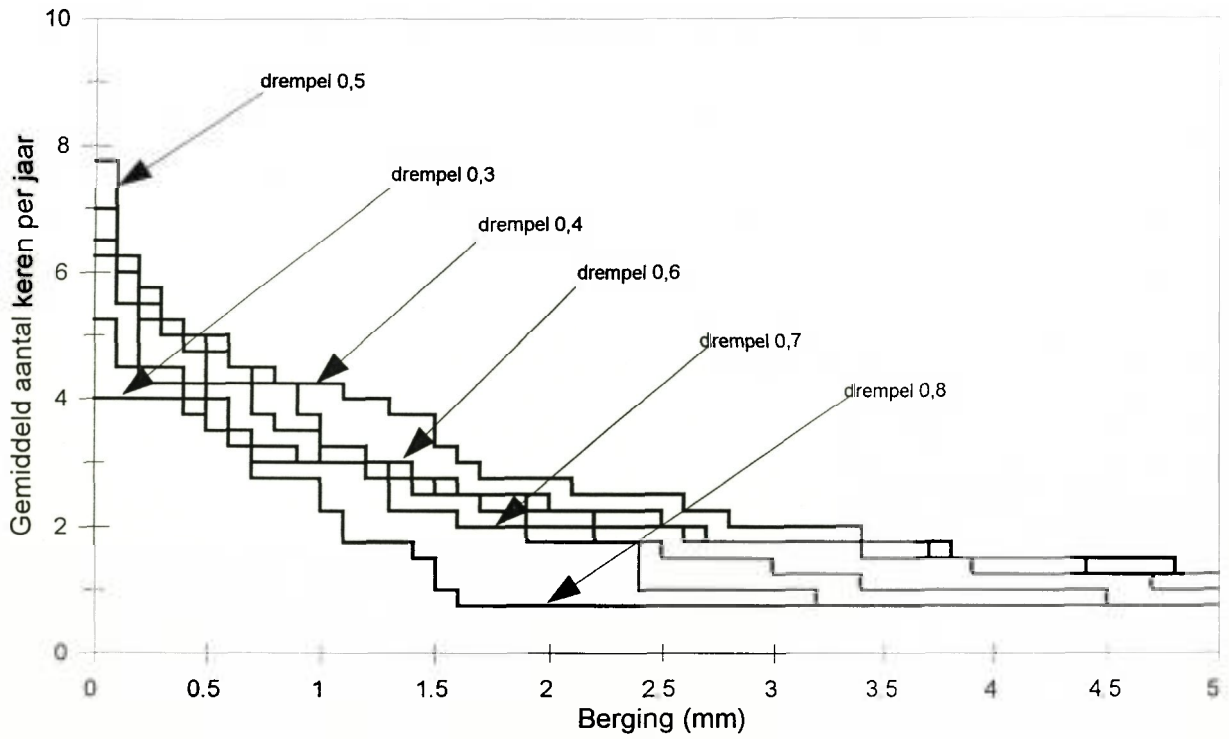
— doorlopend gemiddelde — Jaarmaxima — 5-jaargemiddelde

Station 047 : Mark / Minderhout

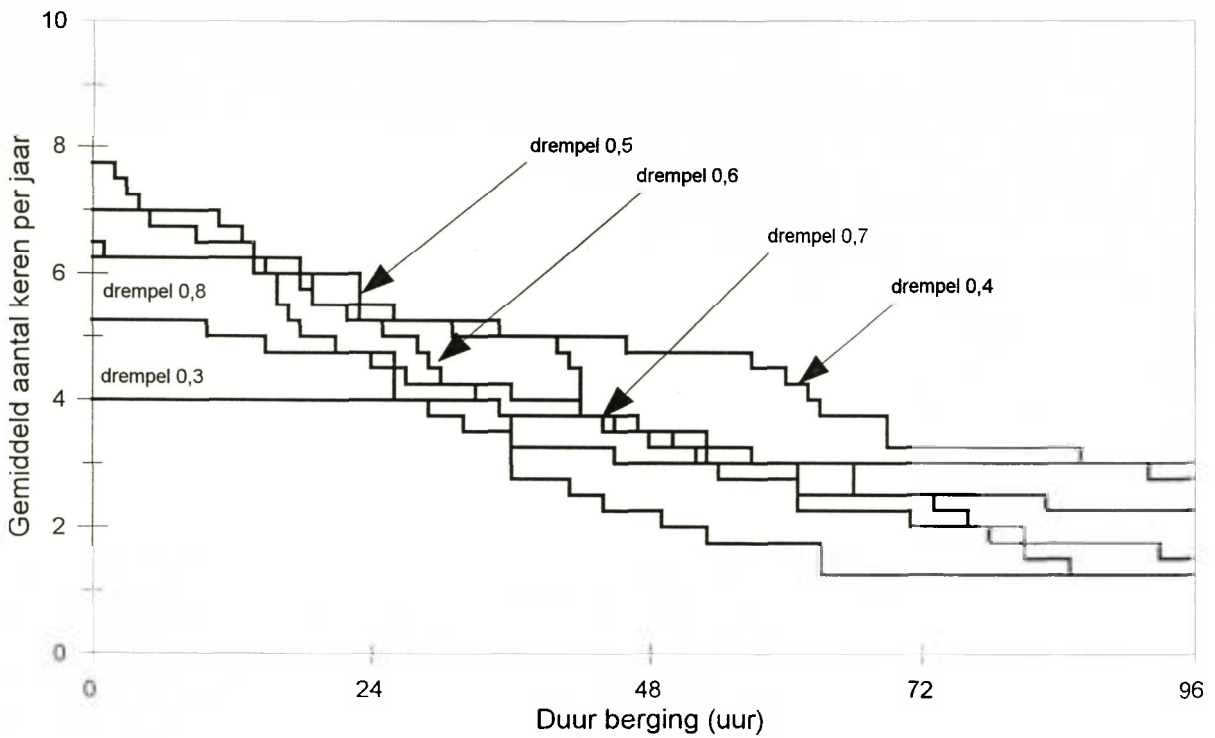


— doorlopend gemiddelde — Jaarmaxima ■ 5-jaargemiddelde

Station 047 - Mark te Hoogstraten



Station 047 - Mark te Hoogstraten

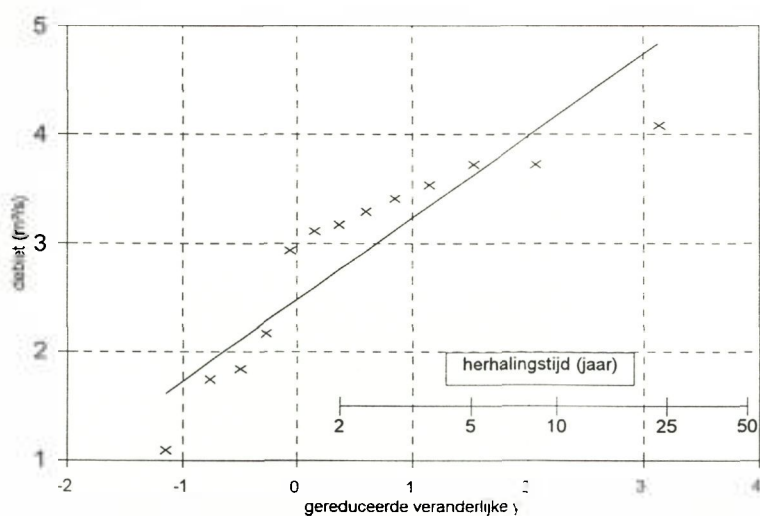


7. Station 048

**De Mark
te Merksplas**

Station nr. 048 : Mark te Merksplas

Nr.	Waterjaar	Datum	Hoogte (cm)	Debiet (m³/s)
1	'95 - '96	8/06/96	60	1.096
2	'91 - '92	22/12/91	89	1.744
3	'89 - '90	1/03/90	93	1.841
4	'90 - '91	3/01/91	106	2.168
5	'92 - '93	17/11/92	134	2.935
6	'88 - '89	8/03/89	140	3.111
7	'93 - '94	19/03/94	142	3.170
8	'86 - '87	31/12/86	146	3.291
9	'85 - '86	19/01/86	150	3.413
10	'83 - '84	7/02/84	154	3.536
11	'87 - '88	1/02/88	160	3.725
12	'84 - '85	12/04/85	160	3.725
13	'94 - '95	30/01/95	171	4.082



Herhalingstijd (jaar)	Debiet (m³/s)	Spec. afvoer (l/s.ha)
2	2.752	0.66
5	3.604	0.87
10	4.167	1.00
25	4.879	1.17
50	5.408	1.30

Station 048 : Mark te Merksplas

Runoffhoeveelheden

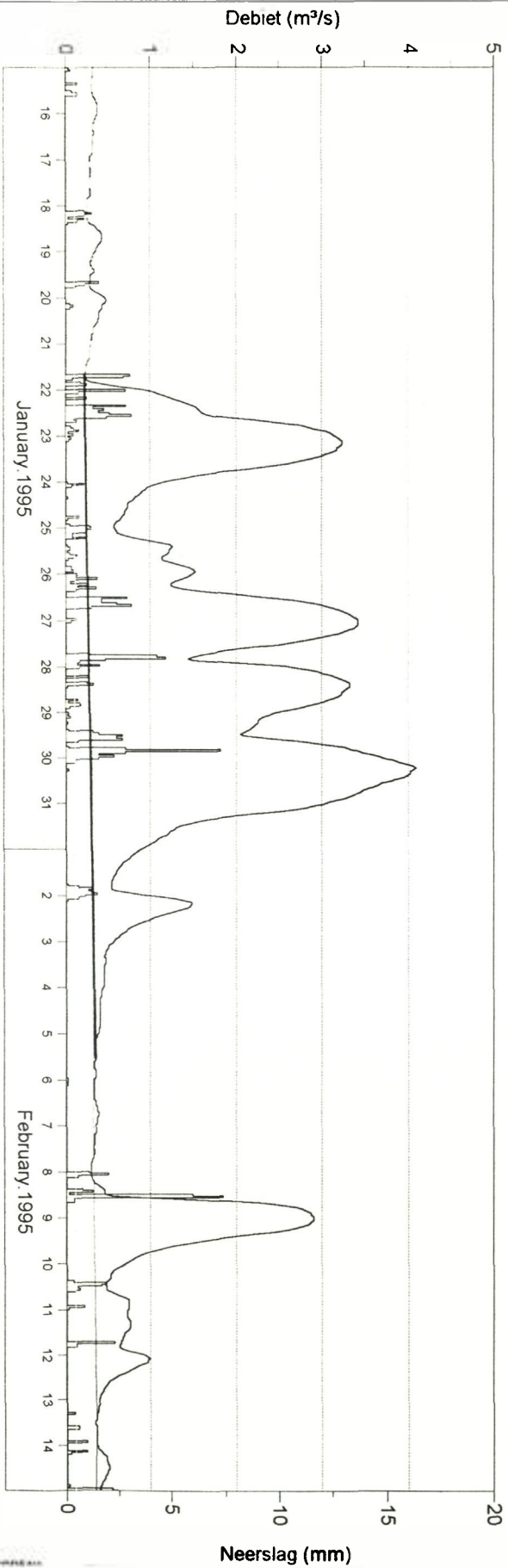
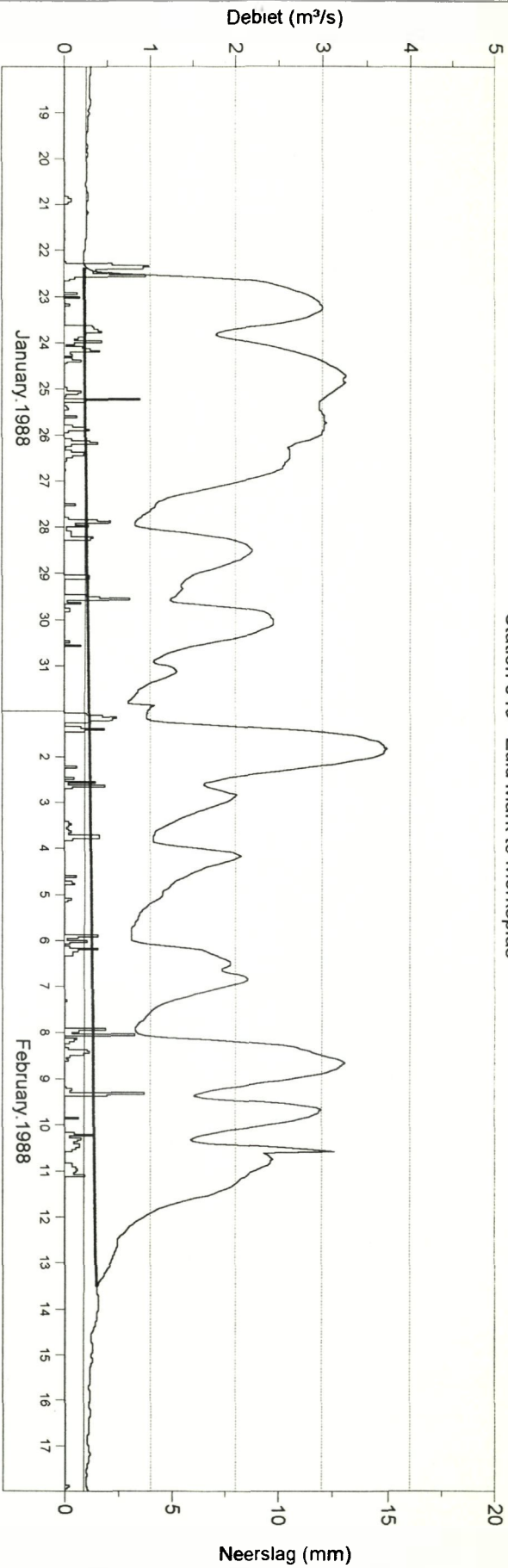
Stroomgebied = 4156 ha

Tijdreeks : 1982 - '96

Nr.	Was van (datum $Q_{\max}$)	$q_{\max}$ (l/s ha)	q_{begin} (l/s ha)	q_{eind} (l/s ha)	Neerslag som (mm)	Neerslag duur (uur)	Concentratie tijd (uur)	Runoff (mm)	Runoff- Coëff. (-)	Runoff duur (uur)
1	01/02/88	0.90	0.05	0.09	133.6	511	38	71.4	0.53	535
2	30/01/95	0.98	0.06	0.08	121.7	275	25	43.5	0.36	357
3	14/12/93	0.60	0.06	0.11	146.1	460	39	35.5	0.24	486
4	31/12/86	0.79	0.05	0.07	95.0	342	29	31.7	0.33	367
5	19/01/86	0.82	0.13	0.15	68.6	179	22	26.2	0.38	217
6	12/04/85	0.90	0.11	0.16	61.2	97	28	24.0	0.39	145
7	28/12/94	0.83	0.03	0.05	83.9	185	26	23.5	0.28	236
8	02/04/94	0.69	0.06	0.07	74.6	241	14	22.9	0.31	266
9	17/11/92	0.71	0.05	0.11	68.8	244	43	22.8	0.33	247
10	01/01/94	0.74	0.10	0.11	76.3	224	34	22.7	0.30	251
11	31/03/86	0.76	0.09	0.11	61.3	151	30	20.1	0.33	158
12	24/11/84	0.78	0.06	0.09	48.7	148	35	18.8	0.39	197
13	07/02/84	0.85	0.12	0.20	56.6	169	25	17.1	0.30	161
14	24/03/87	0.76	0.07	0.08	50.6	174	12	17.0	0.34	213
15	28/04/83	1.02	0.05	0.07	70.4	192	34	16.1	0.23	198
16	20/11/87	0.64	0.07	0.10	43.4	91	26	14.9	0.34	145
17	03/12/92	0.60	0.09	0.09	39.4	163	26	14.6	0.37	190
18	01/02/83	0.64	0.08	0.12	66.5	233	33	14.4	0.22	267
19	26/10/92	0.48	0.02	0.05	54.7	196	51	14.3	0.26	235
20	24/03/83	0.61	0.07	0.11	53.3	185	21	13.4	0.25	212
21	12/01/93	0.60	0.05	0.09	54.1	196	41	13.2	0.24	196
22	23/01/94	0.65	0.06	0.07	56.8	250	9	12.5	0.22	270
23	02/03/87	0.77	0.06	0.07	39.8	97	24	12.4	0.31	152
24	26/11/92	0.59	0.11	0.13	37.5	194	17	12.4	0.33	215
25	15/11/93	0.71	0.04	0.05	70.4	132	54	12.1	0.17	228
26	06/01/88	0.53	0.05	0.09	41.7	157	26	11.4	0.27	203
27	09/06/87	0.63	0.04	0.07	44.2	75	25	10.9	0.25	109
28	01/12/88	0.55	0.04	0.07	48.9	182	21	10.5	0.22	210
29	14/01/84	0.56	0.07	0.09	41.2	176	25	10.4	0.25	239
30	22/12/91	0.42	0.02	0.04	74.5	241	50	10.1	0.14	325

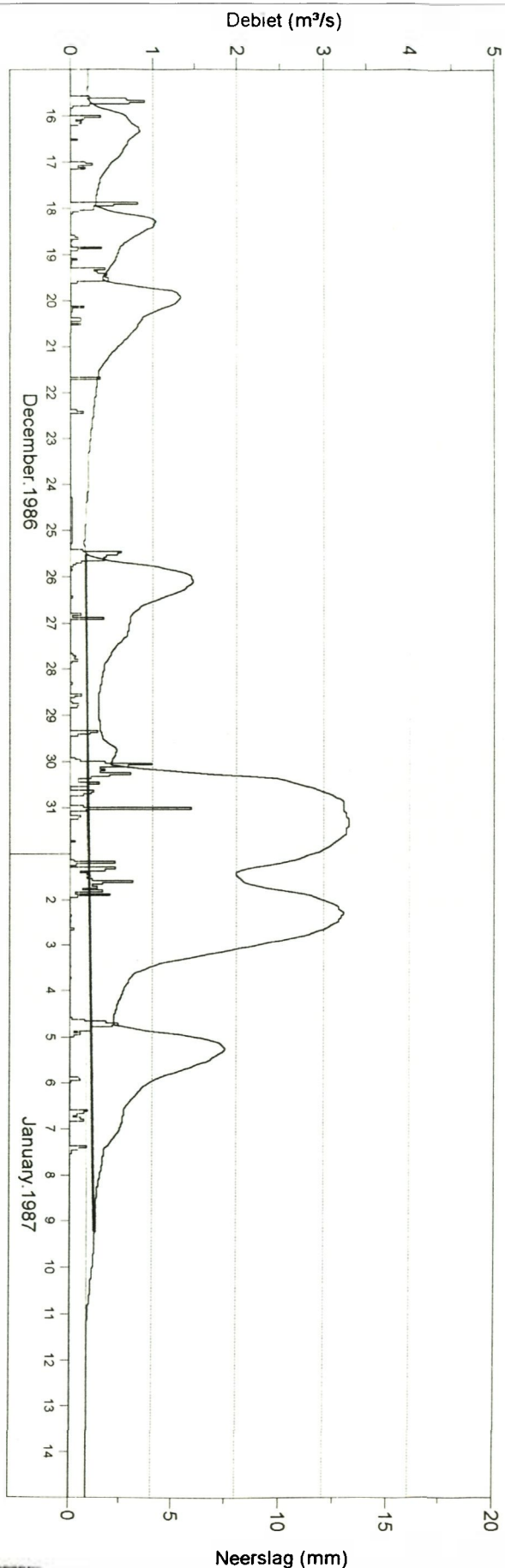
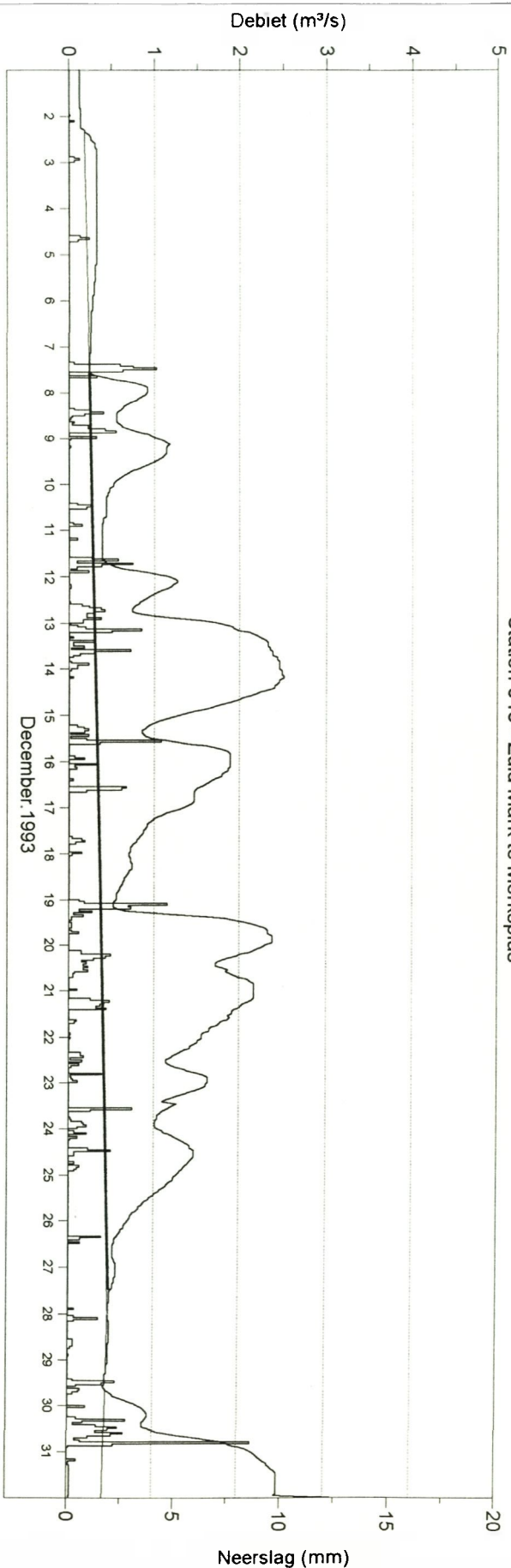
Uurwaarden van neerslag, debiet en basisafvoer

Station 048 - Zuid Mark te Merksplas



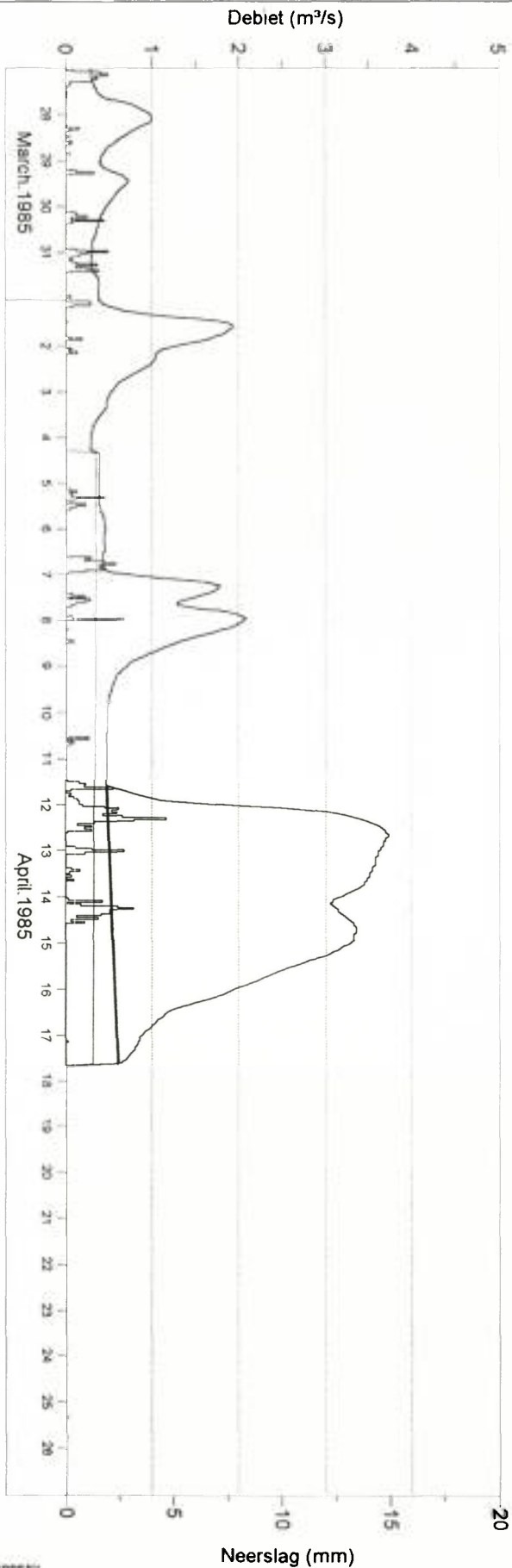
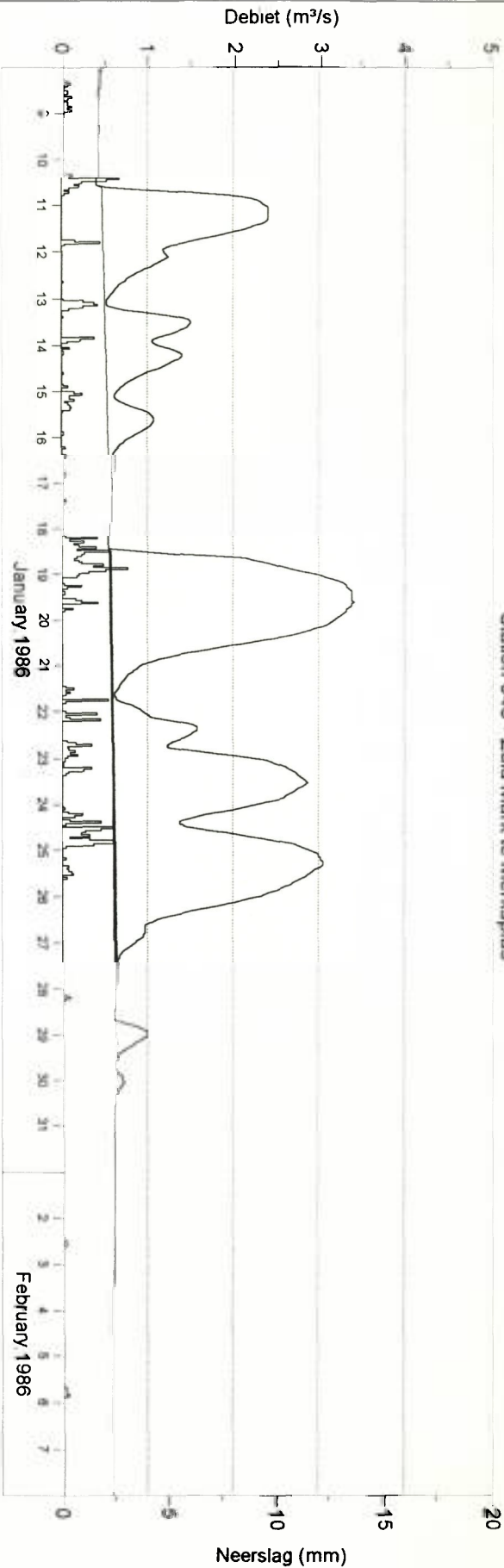
Uurwaarden van neerslag, debiet en basisafvoer

Station 048 - Zuid Mark te Merksplas



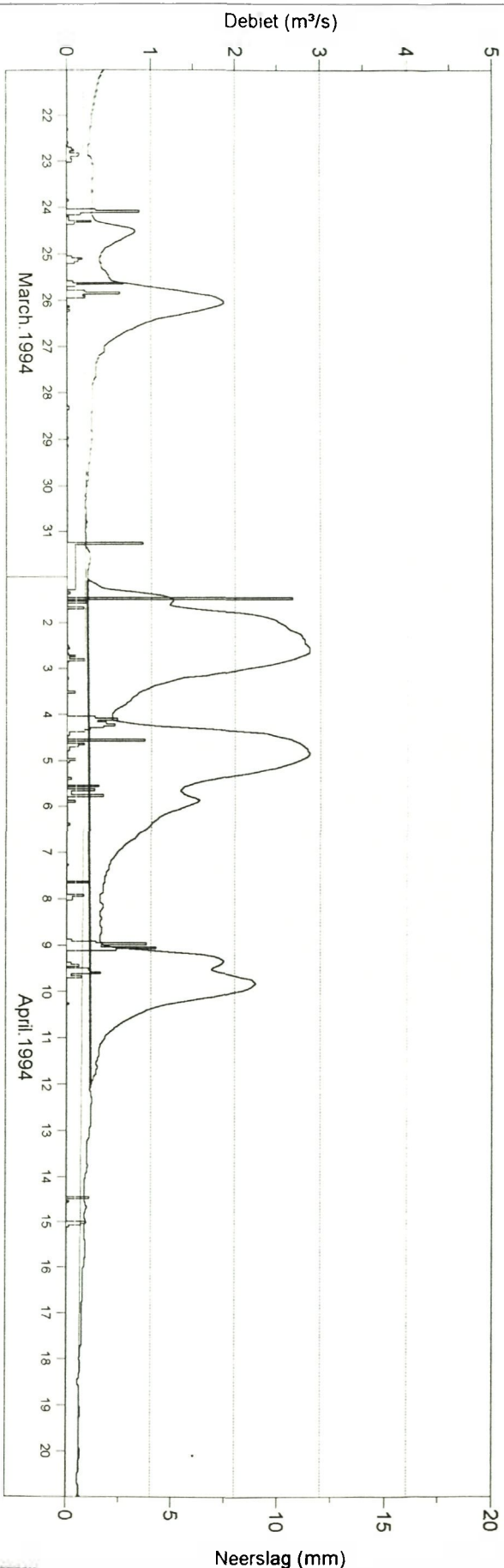
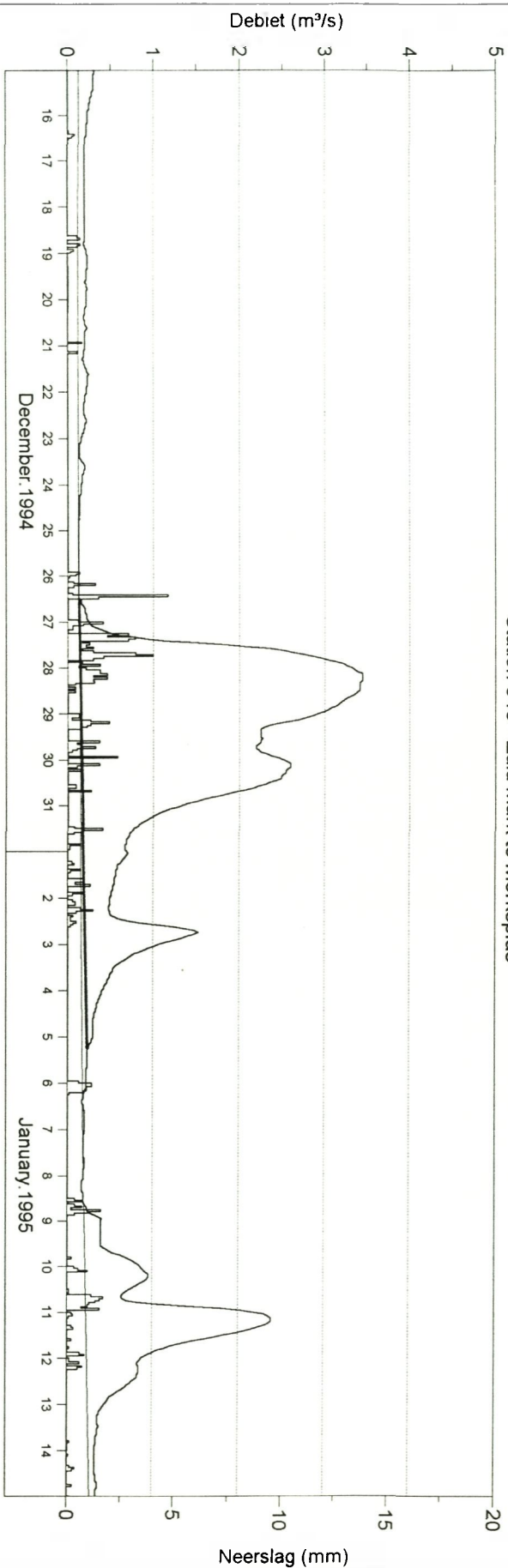
Uurwaarden van neerslag, debiet en basisafvoer

Station 048 - Zuid Mark te Merksplas



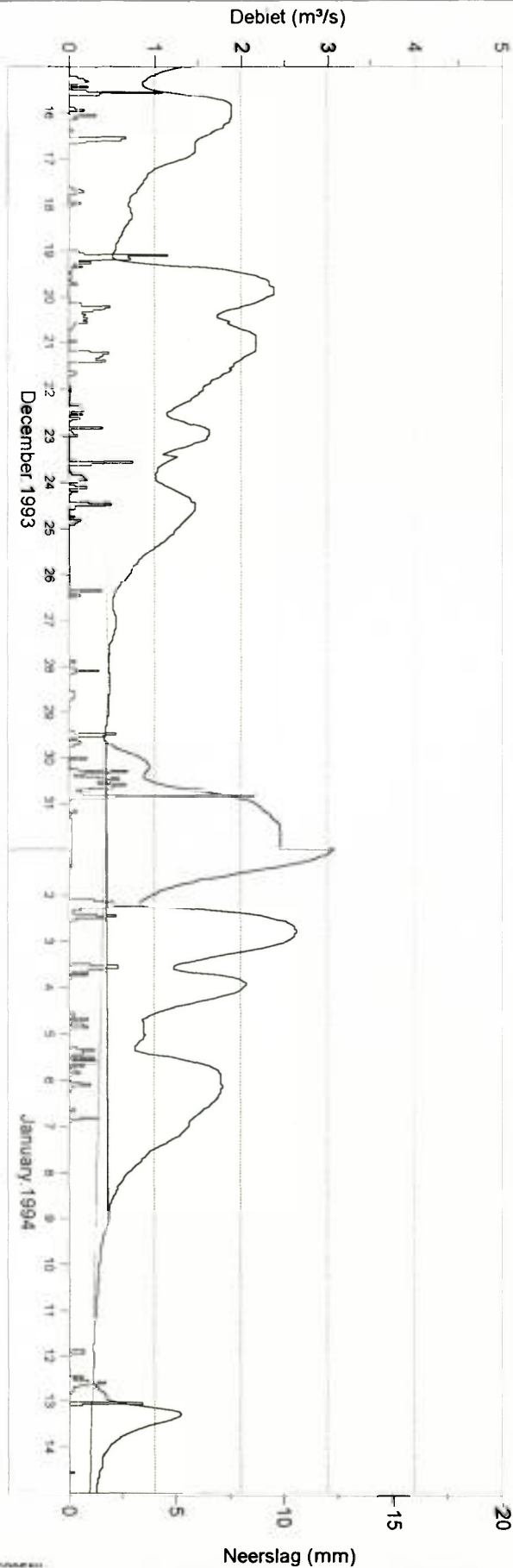
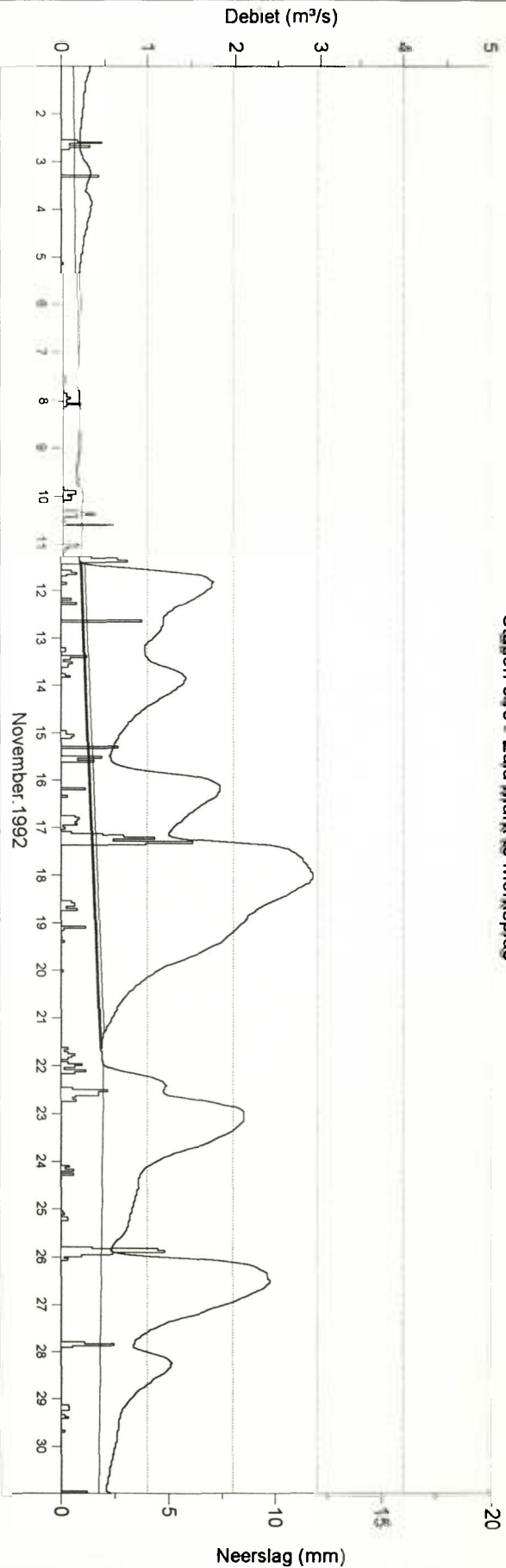
Uurwaarden van neerslag, debiet en basisafvoer

Station 048 - Zuid Mark te Merksplas



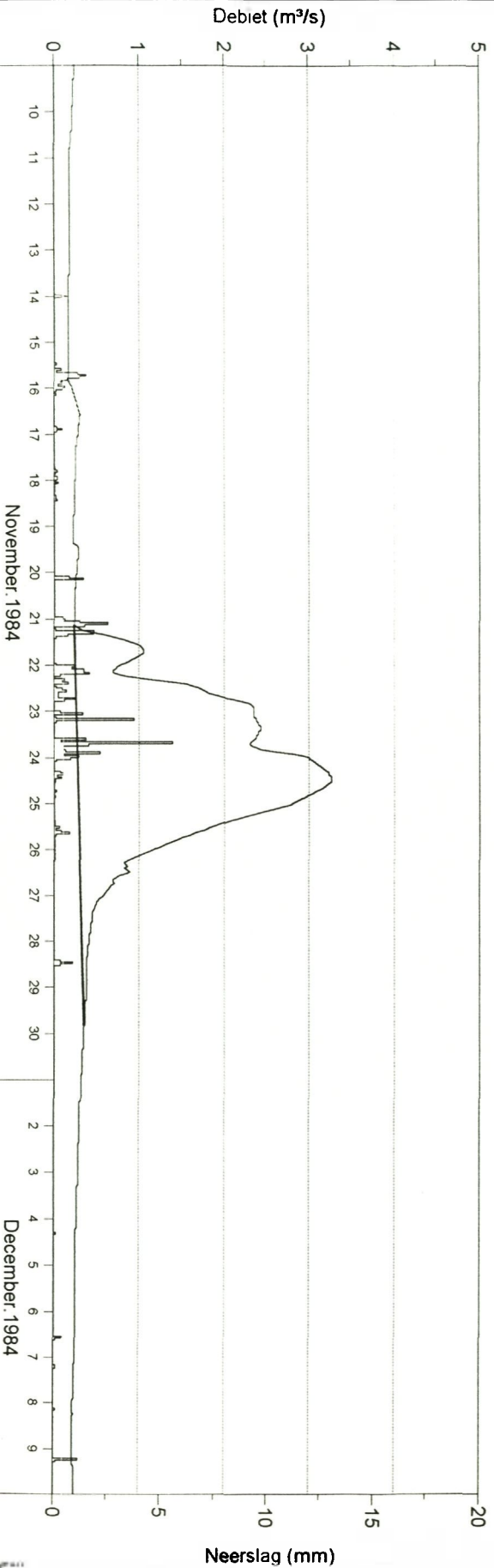
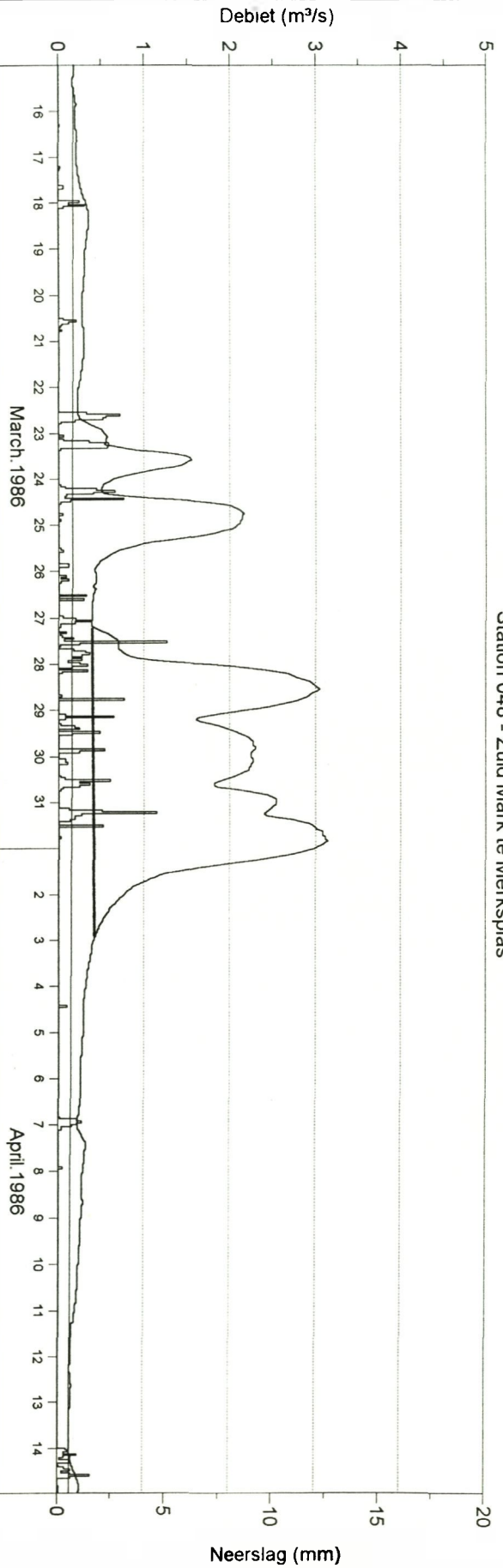
Uurwaarden van neerslag, debiet en basisafvoer

Station 048 - Zuid Mark te Merksplas



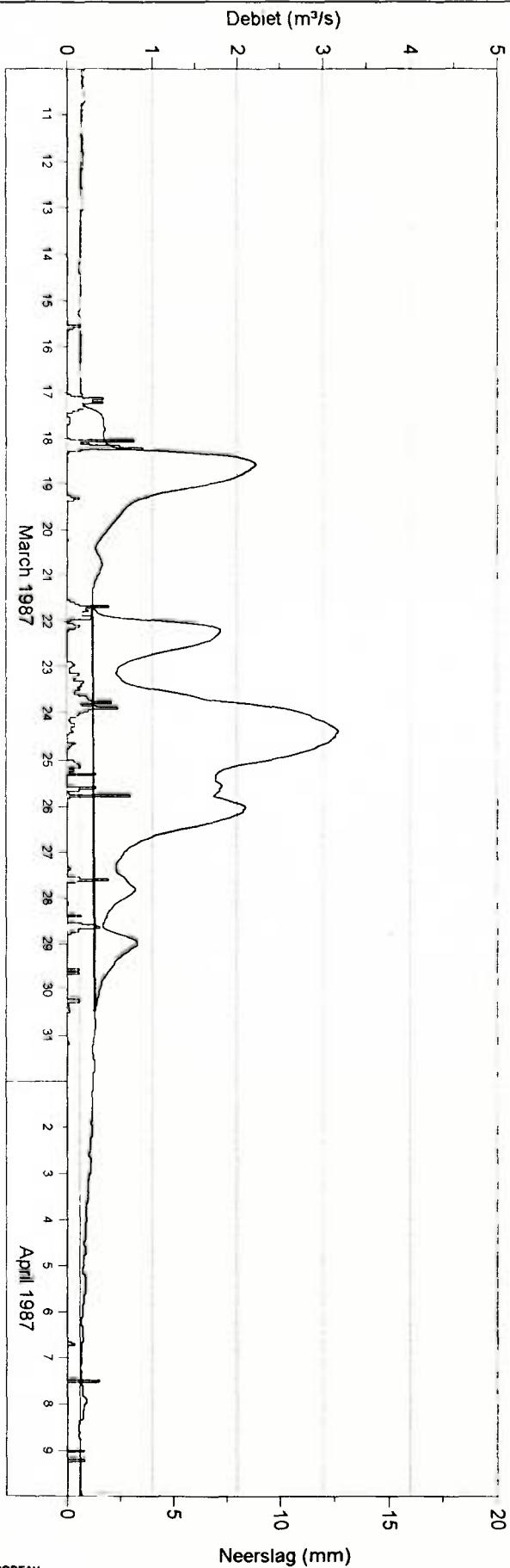
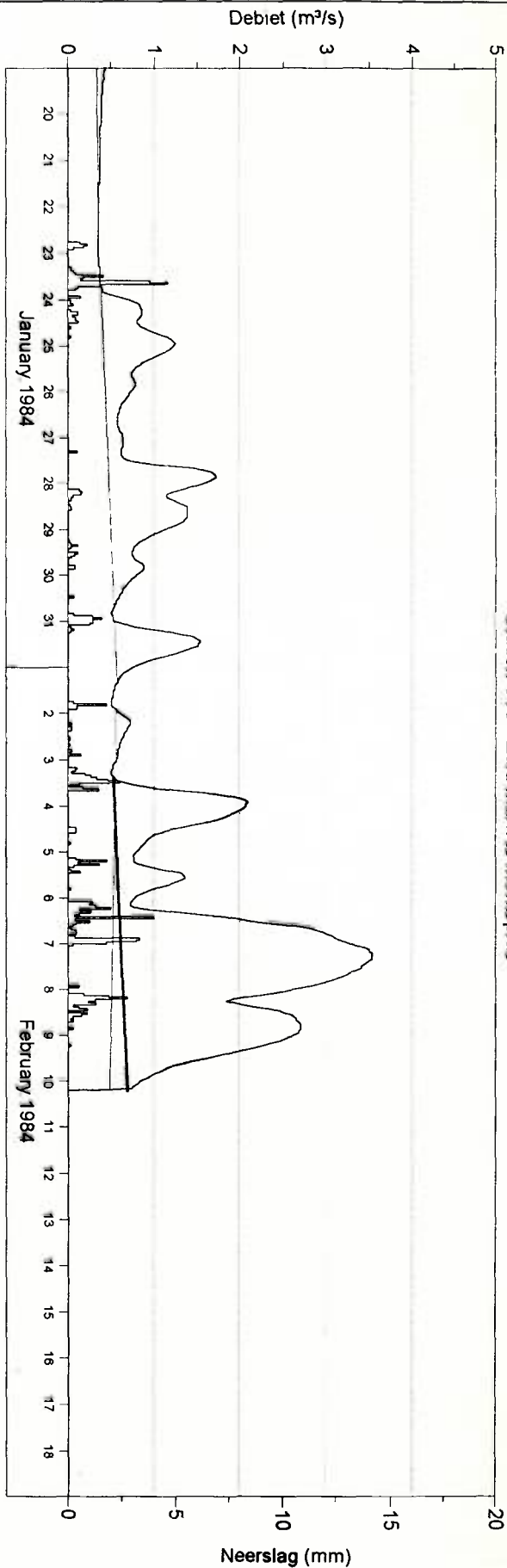
Uurwaarden van neerslag, debiet en basisafvoer

Station 048 - Zuid Mark te Merksplas



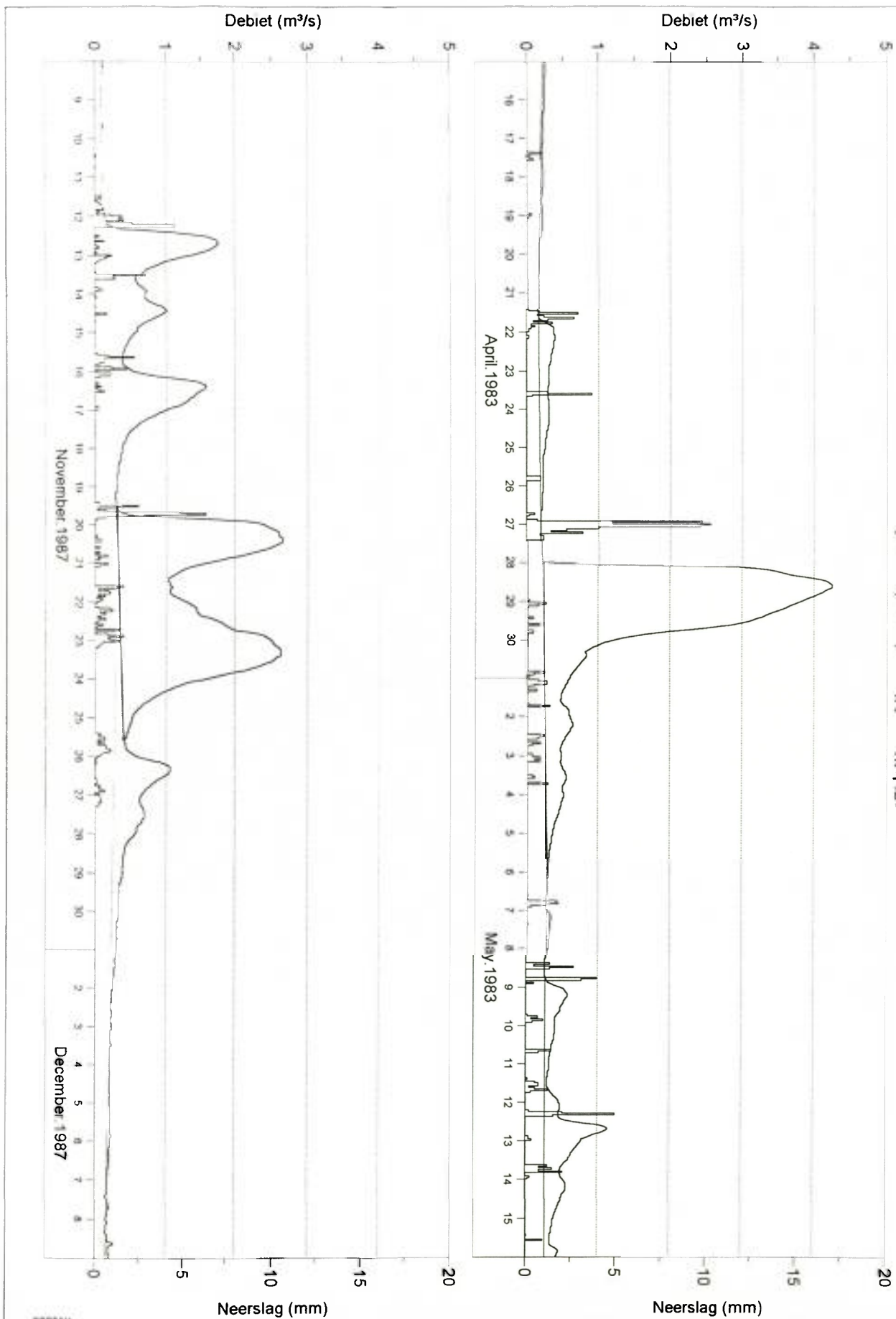
Uurwaarden van neerslag, debiet en basisafvoer

Station 048 - Zuid Mark te Merksplas

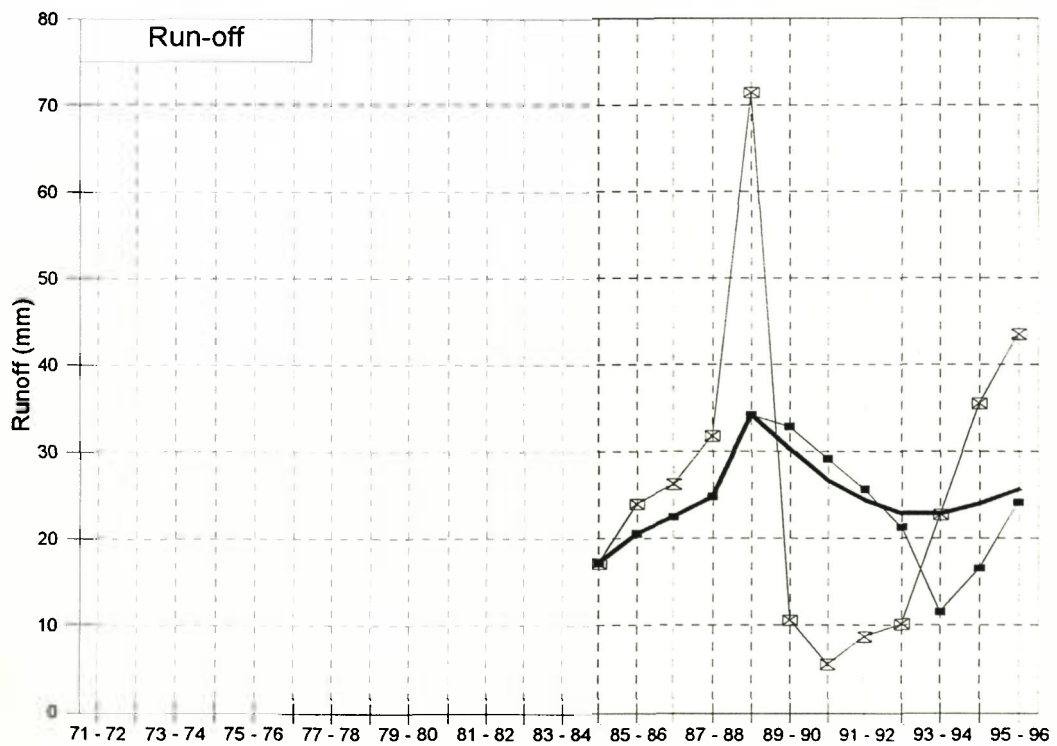
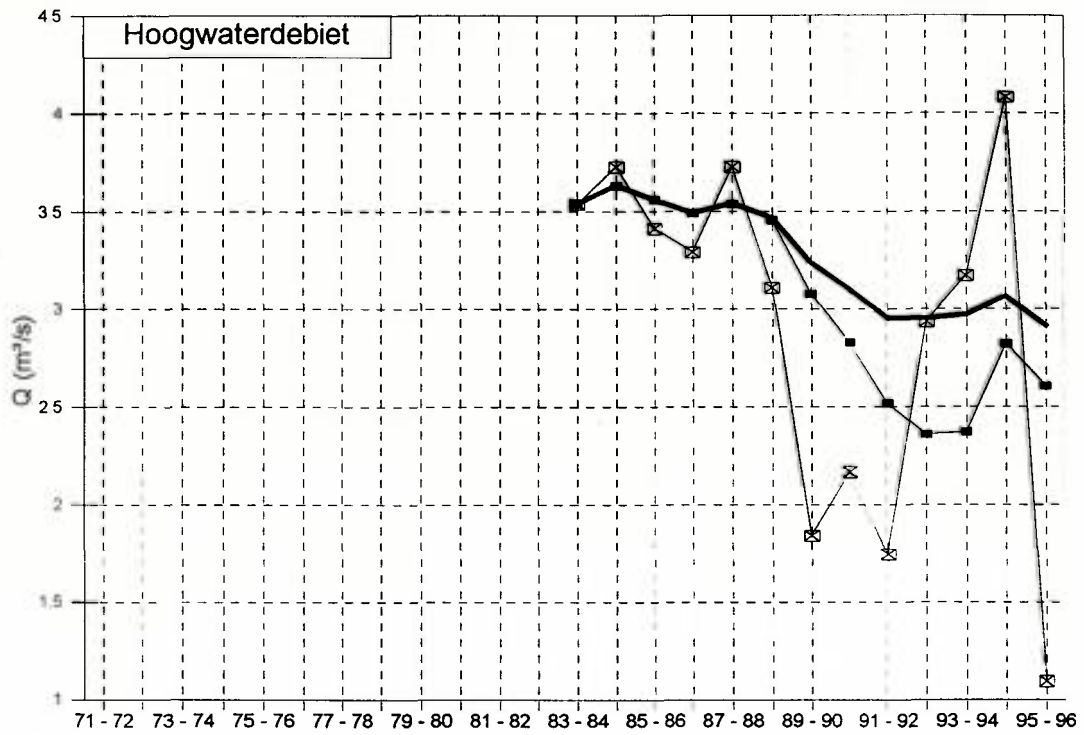


Uurwaarden van neerslag, debiet en basisafvoer

Station 048 - Zuid Mark te Merksplas



Station 048 : Mark / Merksplas

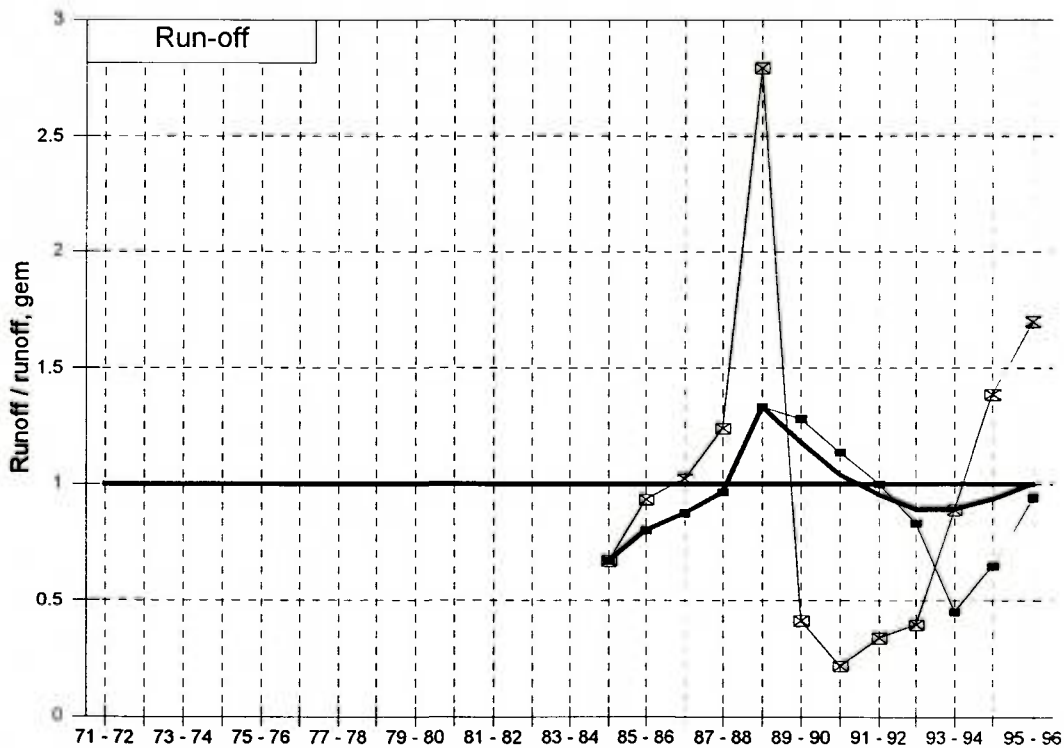
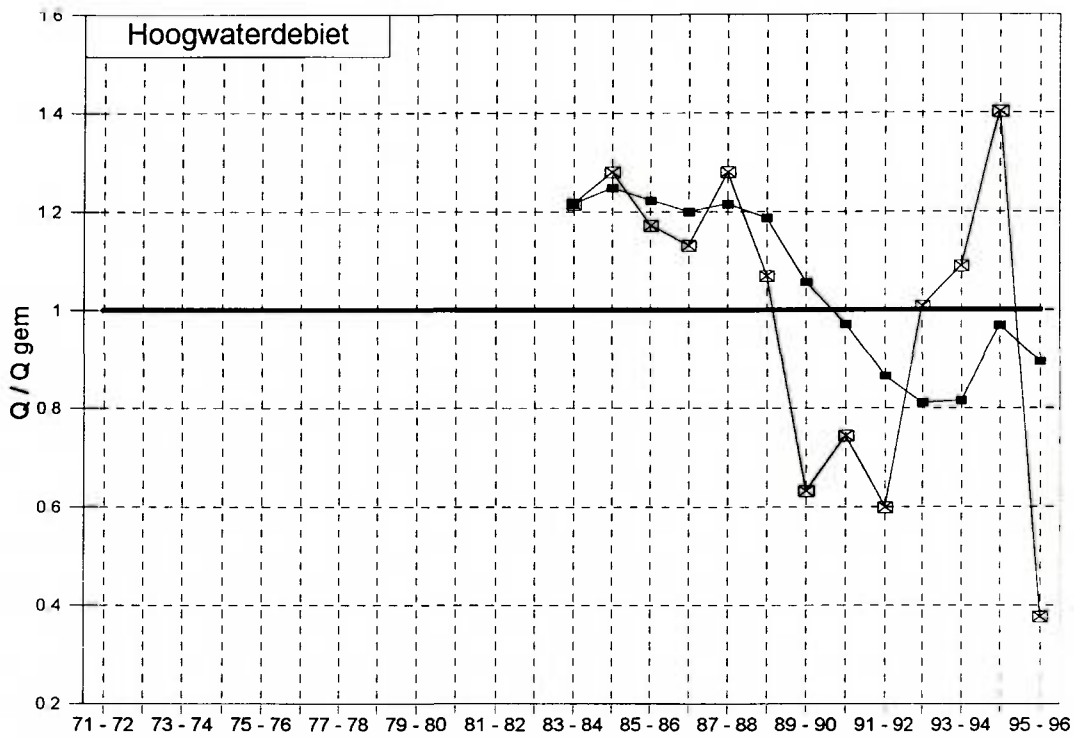


— doorlopend gemiddelde

—x— Jaarmaxima

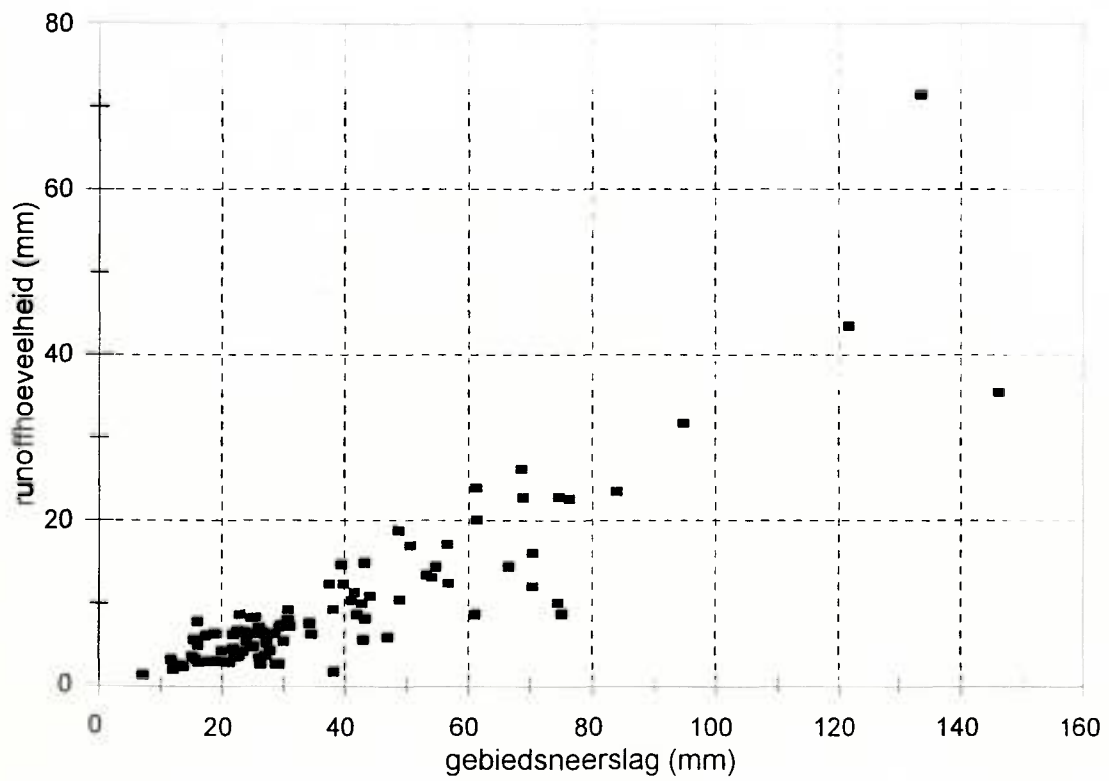
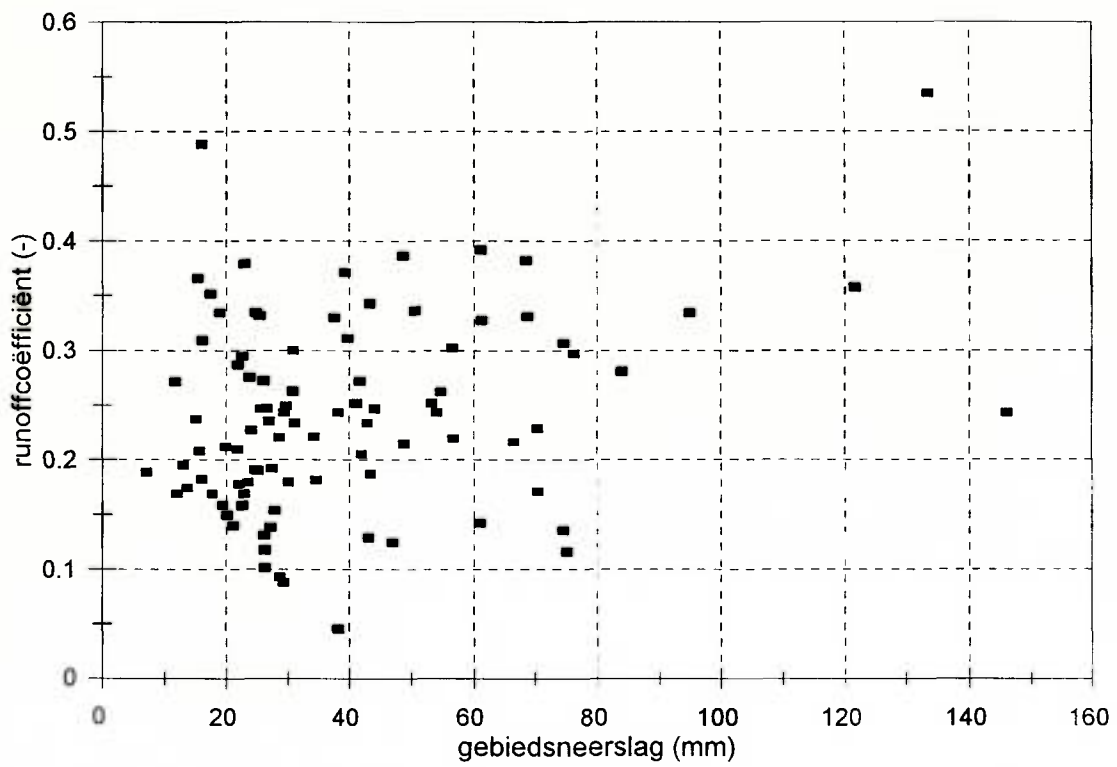
■ 5-jaargemiddelde

Station 048 : Mark / Merksplas



— doortopend gemiddelde —x— Jaarmaxima —■— 5-jaargemiddelde

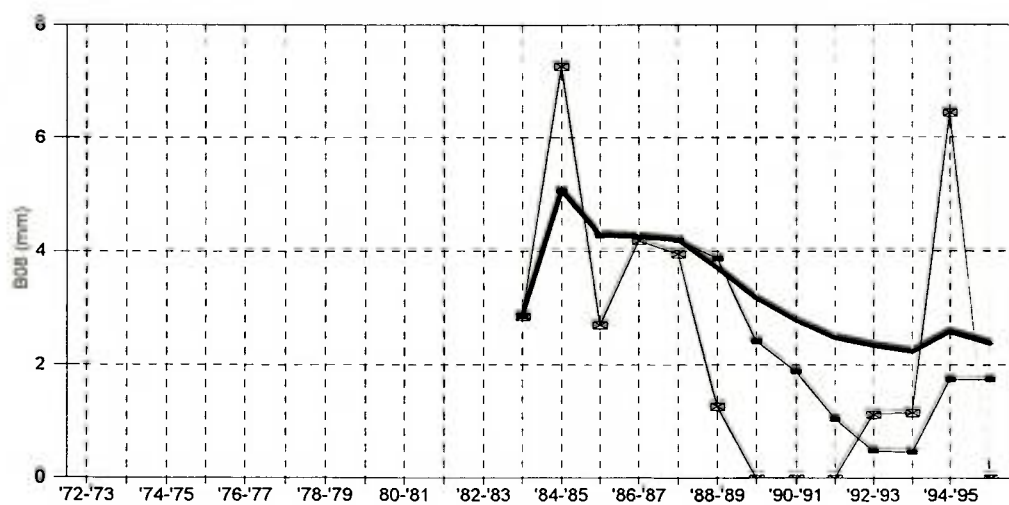
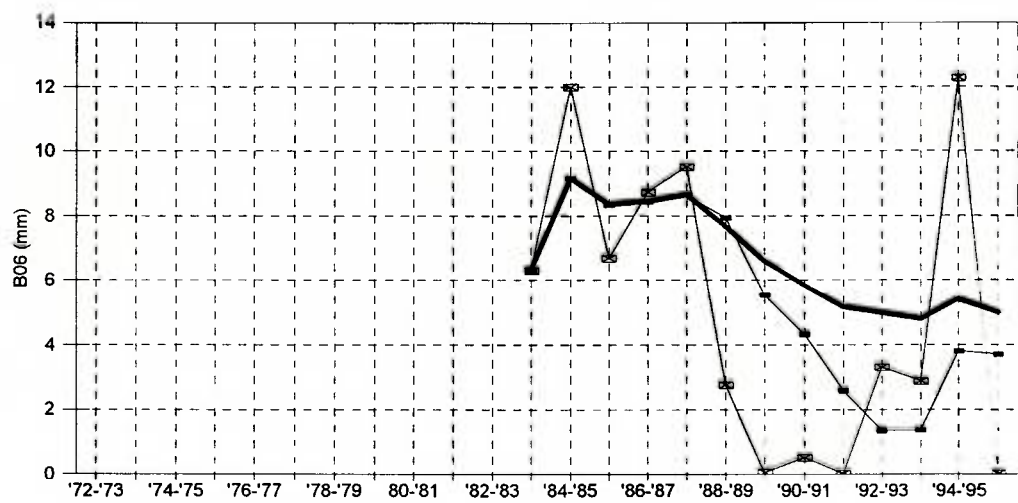
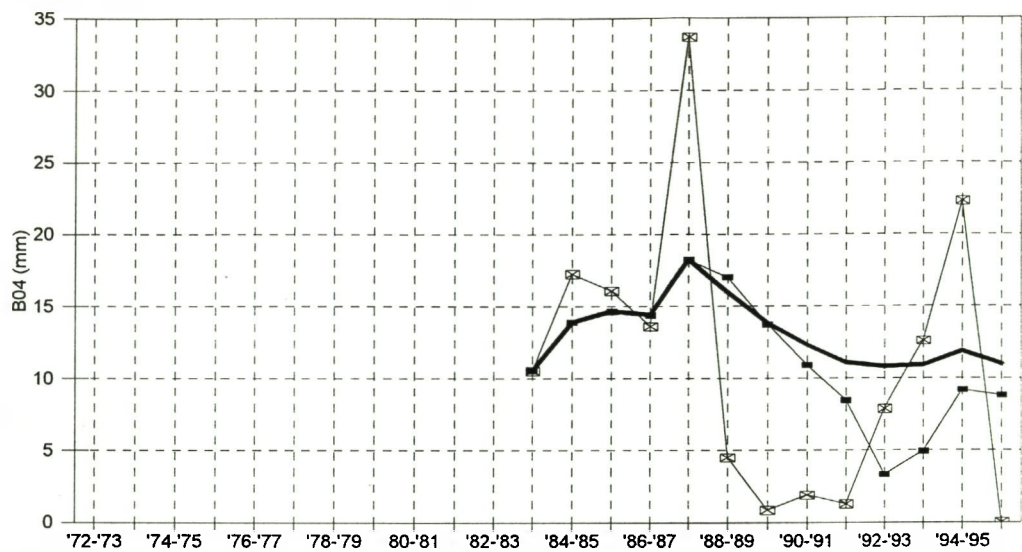
Station 048 : Mark / Merksplas



Jaarmaxima van bergingen					
Station 048 : Zuid Mark / Merksplas			Gemidd.jaarmax. : 2.911 m³/s		
Waterjaar	piekdebiet (m³/s)	datum	(mm)	berging (uur)	datum
Bergingen boven 0,3 . Qgem					
'83 -'84	3.536	07/02/84	14.29	158	09/02/84
'84 -'85	3.725	12/04/85	20.64	254	17/04/85
'85 -'86	3.413	19/01/86	23.38	1364	26/01/86
'86 -'87	3.291	31/12/86	17.11	499	06/01/87
'87 -'88	3.725	01/02/88	46.01	2230	12/02/88
'88 -'99	3.111	08/03/89	5.49	154	09/03/89
'89 -'90	1.841	01/03/90	1.43	69	01/03/90
'90 -'91	2.168	03/01/91	4.47	329	11/01/91
'91 -'92	1.744	22/12/91	2.23	99	23/12/91
'92 -'93	2.935	18/11/92	23.82	1348	14/12/92
'93 -'94	3.081	01/01/94	28.36	1504	07/01/94
'94 -'95	4.082	30/01/95	28.25	1444	02/02/95
'95 -'96	1.096	08/06/96	0.06	5	08/06/96
Bergingen boven 0,4 . Qgem					
'83 -'84	3.536	07/02/84	10.53	156	09/02/84
'84 -'85	3.725	12/04/85	17.27	136	16/04/85
'85 -'86	3.413	19/01/86	16.07	531	26/01/86
'86 -'87	3.291	31/12/86	13.62	345	03/01/87
'87 -'88	3.725	01/02/88	33.68	1056	11/02/88
'88 -'99	3.111	08/03/89	4.50	104	09/03/89
'89 -'90	1.841	01/03/90	0.85	39	01/03/90
'90 -'91	2.168	03/01/91	1.87	112	04/01/91
'91 -'92	1.744	22/12/91	1.26	62	23/12/91
'92 -'93	2.935	18/11/92	7.90	758	27/11/92
'93 -'94	3.081	01/01/94	12.62	818	07/01/94
'94 -'95	4.082	30/01/95	22.28	907	31/01/95
'95 -'96			0.00	0	
Bergingen boven 0,5 . Qgem					
'83 -'84	3.536	07/02/84	8.20	91	09/02/84
'84 -'85	3.725	12/04/85	14.57	135	16/04/85
'85 -'86	3.413	19/01/86	11.33	353	26/01/86
'86 -'87	3.291	31/12/86	11.13	263	03/01/87
'87 -'88	3.725	01/02/88	21.49	708	11/02/88
'88 -'99	3.111	08/03/89	3.61	78	09/03/89
'89 -'90	1.841	01/03/90	0.37	25	01/03/90
'90 -'91	2.168	03/01/91	1.06	49	04/01/91
'91 -'92	1.744	22/12/91	0.46	40	22/12/91
'92 -'93	2.935	18/11/92	5.05	231	19/11/92
'93 -'94	3.081	01/01/94	5.56	245	04/01/94
'94 -'95	4.082	30/01/95	16.62	489	31/01/95
'95 -'96			0.00	0	

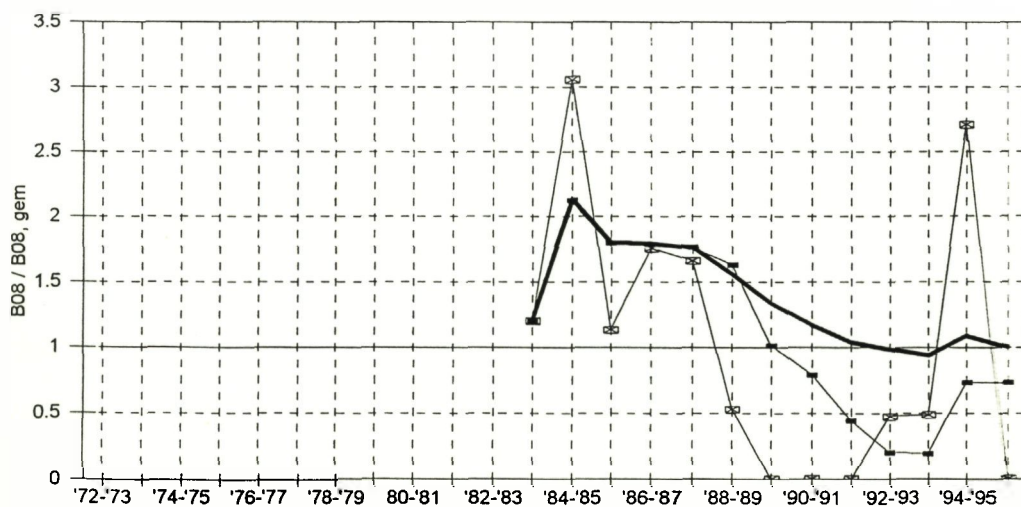
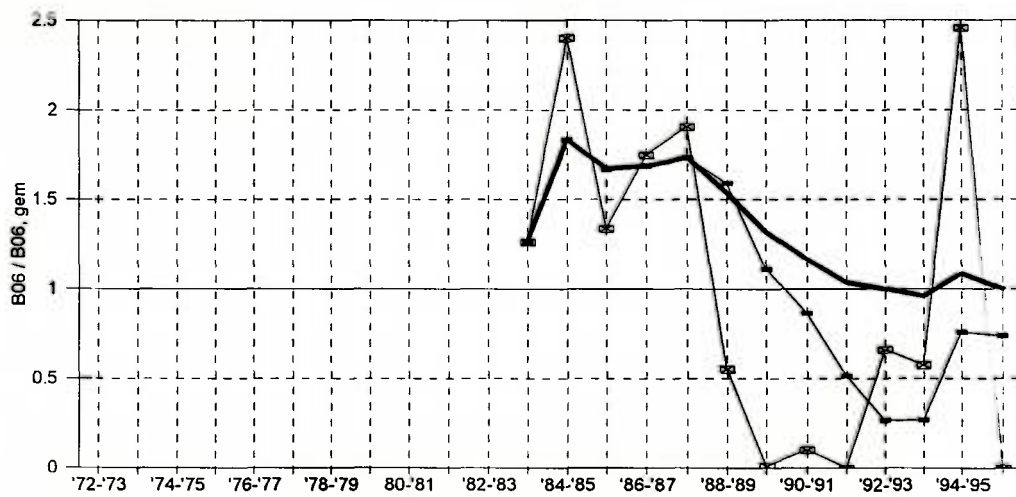
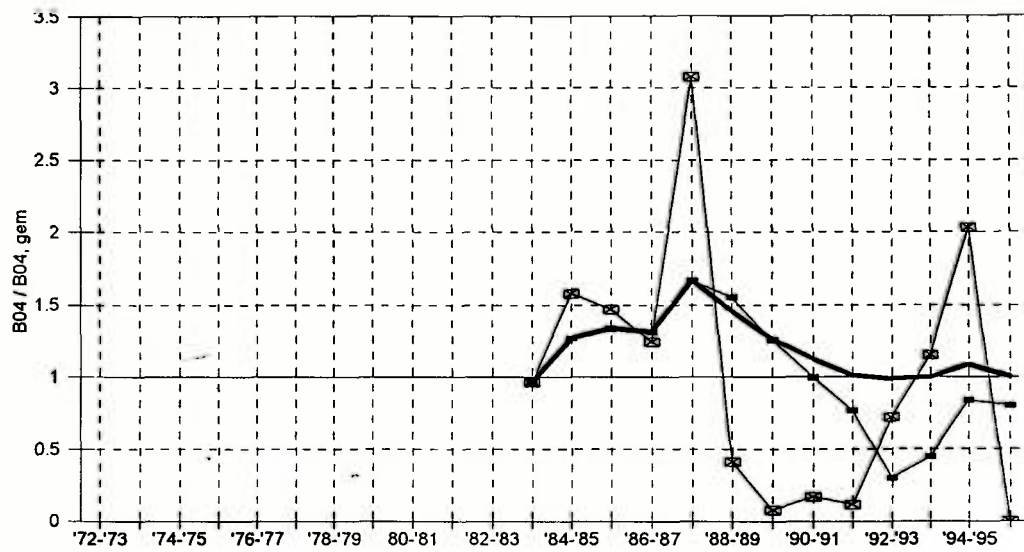
Jaarmaxima van bergingen					
Station 048 : Zuid Mark / Merksplas			Gemidd. jaarmax : 2 911 m³/s		
Waterjaar	piekdebiet (m³/s)	datum	(mm)	berging (uur)	datum
Bergingen boven 0,6 · Qgem					
'83 -'84	3 536	07/02/84	6 31	90	09/02/84
'84 -'85	3 725	12/04/85	11 99	134	16/04/85
'85 -'86	3 413	19/01/86	6 68	262	26/01/86
'86 -'87	3 291	31/12/86	8 73	208	03/01/87
'87 -'88	3 725	01/02/88	9 52	568	03/02/88
'88 -'99	3 111	08/03/89	2 76	61	09/03/89
'89 -'90	1 841	01/03/90	0 04	10	01/03/90
'90 -'91	2 168	03/01/91	0 50	33	03/01/91
'91 -'92			0 00	0	
'92 -'93	2 935	18/11/92	3 30	98	19/11/92
'93 -'94	3 081	01/01/94	2 87	182	03/01/94
'94 -'95	4 082	30/01/95	12 27	249	31/01/95
'95 -'96			0 00	0	
Bergingen boven 0,7 · Qgem					
'83 -'84	3 536	07/02/84	4 52	88	09/02/84
'84 -'85	3 725	12/04/85	9 55	134	15/04/85
'85 -'86	3 413	19/01/86	3 81	86	20/01/86
'86 -'87	3 291	31/12/86	6 41	166	03/01/87
'87 -'88	3 725	01/02/88	6 55	321	27/01/88
'88 -'99	3 111	08/03/89	1 98	50	09/03/89
'89 -'90			0 00	0	
'90 -'91	2 168	03/01/91	0 10	17	03/01/91
'91 -'92			0 00	0	
'92 -'93	2 935	18/11/92	2 06	77	19/11/92
'93 -'94	3 170	19/03/94	1 77	42	20/03/94
'94 -'95	4 082	30/01/95	9 32	204	31/01/95
'95 -'96			0 00	0	
Bergingen boven 0,8 · Qgem					
'83 -'84	3 536	07/02/84	2 86	86	09/02/84
'84 -'85	3 725	12/04/85	7 26	133	15/04/85
'85 -'86	3 413	19/01/86	2 70	66	20/01/86
'86 -'87	3 291	31/12/86	4 18	122	02/01/87
'87 -'88	3 260	24/01/88	3 95	158	26/01/88
'88 -'99	3 111	08/03/89	1 26	39	09/03/89
'89 -'90			0 00	0	
'90 -'91			0 00	0	
'91 -'92			0 00	0	
'92 -'93	2 935	18/11/92	1 13	60	18/11/92
'93 -'94	3 170	19/03/94	1 16	34	20/03/94
'94 -'95	4 082	30/01/95	6 44	169	31/01/95
'95 -'96			0 00	0	

Station 048 : Mark / Merksplas



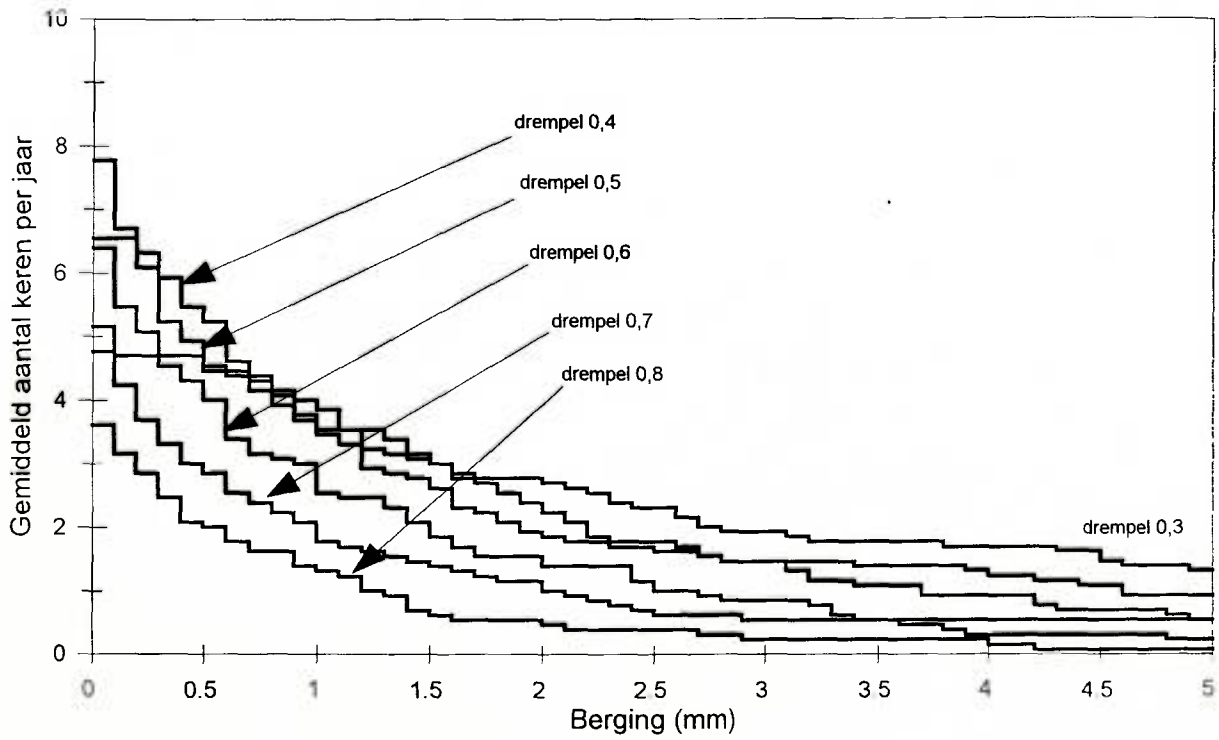
— doorlopend gemiddelde —■— Jaarmaxima —■— 5-jaargemiddelde

Station 048 : Mark / Merksplas

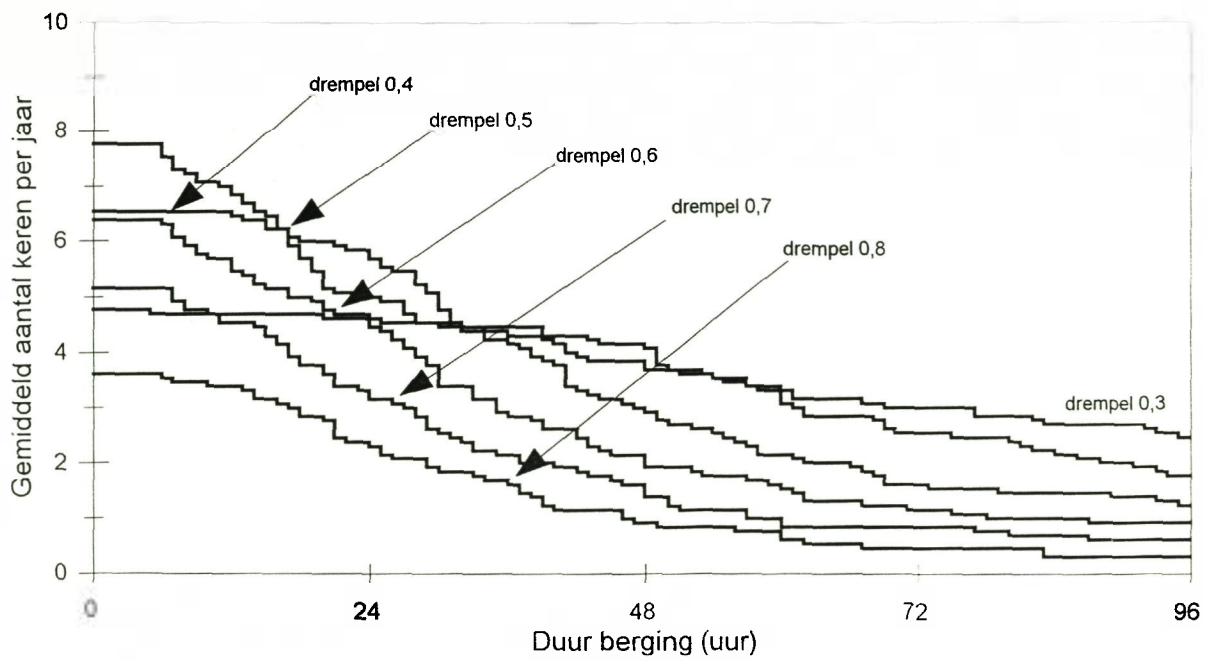


— doorlopend gemiddelde —■— Jaarmaxima —■— 5-jaargemiddelde

Station 048 - Mark te Merksplas



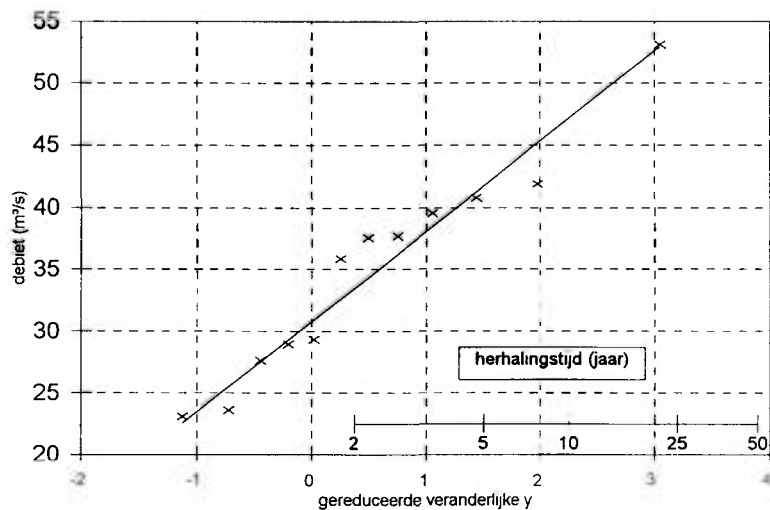
Station 048 - Mark te Merksplas



8. Station 052
**De Kleine Nete
te Grobbendonk**

Station nr. 052 : Kleine Nete te Grobbendonk

Nr.	Waterjaar	Datum	Hoogte (cm)	Debiet (m ³ /s)
1	'90 - '91	3/01/91	-	23.110
2	'89 - '90	1/03/90	-	23.590
3	'91 - '92	22/12/91	-	27.631
4	'88 - '89	8/03/89	-	28.962
5	'92 - '93	12/01/93	-	29.349
6	'87 - '88	27/01/88	-	35.866
7	'85 - '86	1/04/86	-	37.520
8	'93 - '94	31/12/93	-	37.701
9	'83 - '84	7/02/84	-	39.541
10	'86 - '87	2/01/87	-	40.764
11	'84 - '85	15/04/85	-	41.881
12	'94 - '95	30/01/95	-	53.158



Herhalingstijd (jaar)	Debiet (m ³ /s)	Spec. afvoer (l/s.ha)
2	33.388	0.57
5	41.646	0.72
10	47.114	0.81
25	54.023	0.93
50	59.149	1.02

Station 052 : Kleine Nete te Grobbendonk

Runoffhoeveelheden

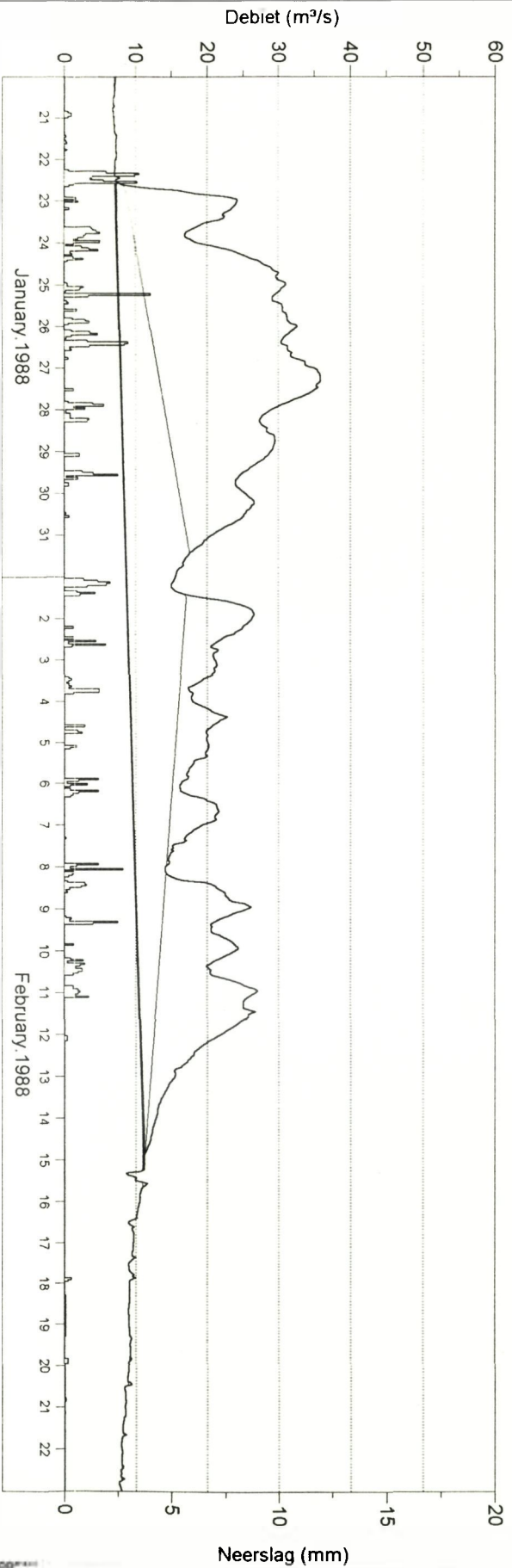
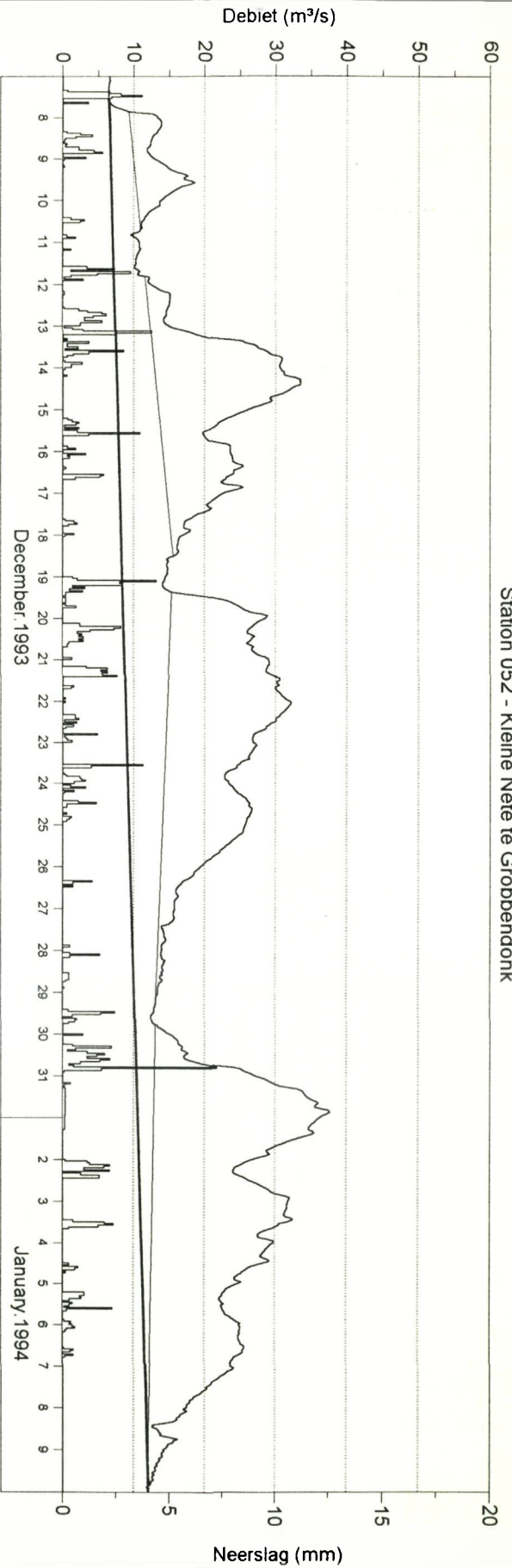
Stroomgebied = 58127 ha

Tijdreeks : 1983 - '96

Nr	Was van (datum Q _{max})	q _{max} (l/s ha)	q _{begin} (l/s ha)	q _{eind} (l/s ha)	Neerslag som (mm)	Neerslag duur (uur)	Concentratie tijd (uur)	Runoff (mm)	Runoff- Coeff. (-)	Runoff duur (uur)
1	31/12/93	0.65	0.11	0.20	222.6	732	71	60.3	0.27	799
2	27/01/88	0.62	0.12	0.19	133.0	562	40	45.1	0.34	570
3	30/01/95	0.91	0.18	0.22	123.2	273	62	41.5	0.34	397
4	02/01/87	0.70	0.12	0.14	87.4	315	66	33.3	0.38	413
5	01/04/86	0.65	0.11	0.12	95.9	417	71	31.4	0.33	475
6	15/04/85	0.72	0.13	0.14	97.8	266	64	29.2	0.30	359
7	20/01/86	0.64	0.18	0.18	63.8	242	55	25.3	0.40	418
8	25/03/87	0.65	0.11	0.16	81.0	375	54	25.2	0.31	416
9	10/09/84	0.55	0.04	0.12	148.2	305	52	25.2	0.17	335
10	28/12/94	0.59	0.10	0.13	76.8	185	54	20.8	0.27	271
11	24/11/84	0.60	0.12	0.13	48.8	203	64	20.4	0.42	281
12	27/01/85	0.60	0.09	0.15	40.8	293	20	20.3	0.50	338
13	02/02/83	0.72	0.16	0.16	63.0	233	49	19.0	0.30	284
14	07/02/84	0.68	0.19	0.20	61.4	196	46	17.0	0.28	238
15	03/01/91	0.40	0.10	0.12	114.2	440	82	16.6	0.15	503
16	13/11/91	0.32	0.04	0.11	137.7	466	79	16.2	0.12	516
17	24/03/83	0.58	0.12	0.17	76.7	361	38	16.0	0.21	421
18	28/01/94	0.48	0.16	0.17	60.1	331	42	15.9	0.26	379
19	07/01/86	0.45	0.12	0.18	61.2	369	25	15.9	0.26	374
20	27/04/83	0.75	0.12	0.14	65.0	192	36	15.7	0.24	223
21	20/10/84	0.49	0.13	0.15	66.1	259	41	15.2	0.23	308
22	18/11/92	0.43	0.09	0.15	98.0	476	56	14.5	0.15	505
23	22/12/91	0.48	0.06	0.12	74.1	237	66	14.3	0.19	303
24	20/02/95	0.57	0.23	0.23	69.5	314	29	14.1	0.20	335
25	19/03/94	0.46	0.11	0.15	64.8	325	38	14.1	0.22	359
26	25/06/85	0.49	0.10	0.12	83.0	297	64	13.8	0.17	325
27	03/03/87	0.66	0.13	0.14	41.8	97	43	13.6	0.32	237
28	11/01/88	0.38	0.11	0.13	54.2	353	51	13.2	0.24	385
29	12/01/93	0.50	0.09	0.14	52.7	291	50	12.8	0.24	319
30	26/03/88	0.51	0.17	0.21	61.0	302	29	12.6	0.21	300

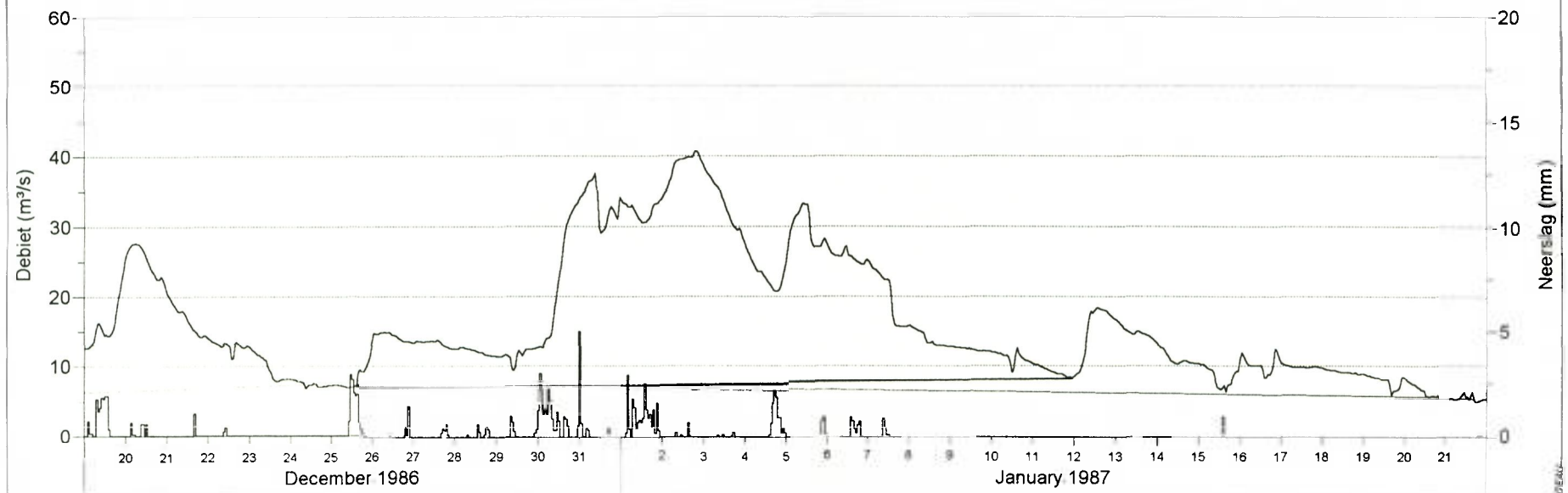
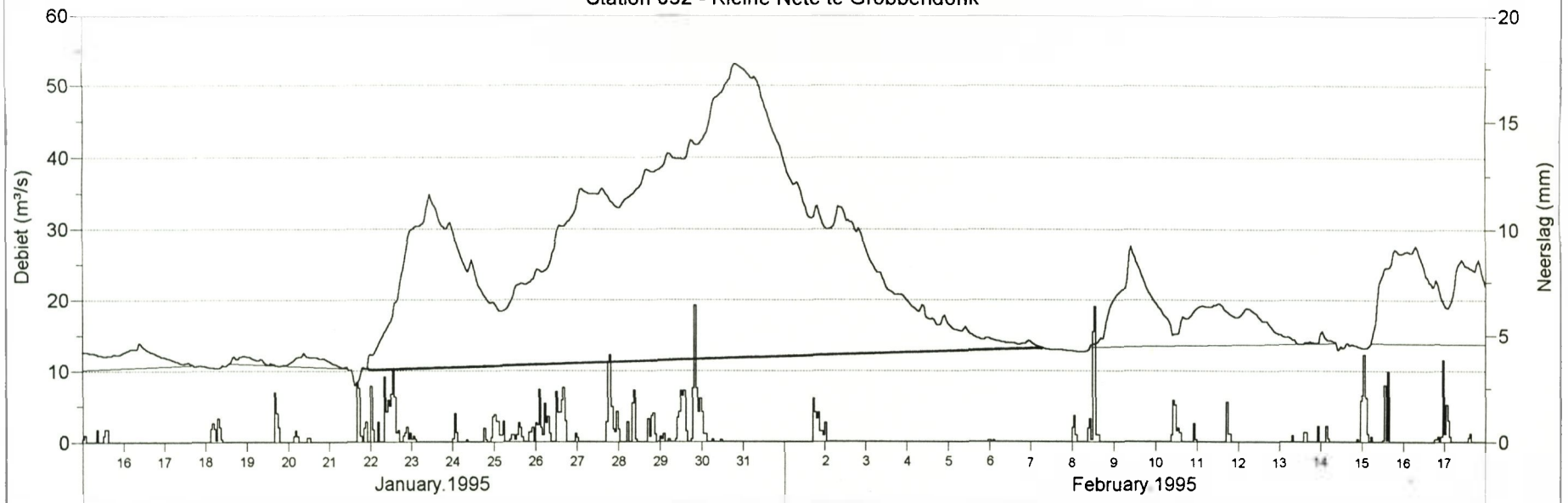
Uurwaarden van neerslag, debiet en basisafvoer

Station 052 - Kleine Nete te Grobbendonk



Uurwaarden van neerslag, debiet en basisafvoer

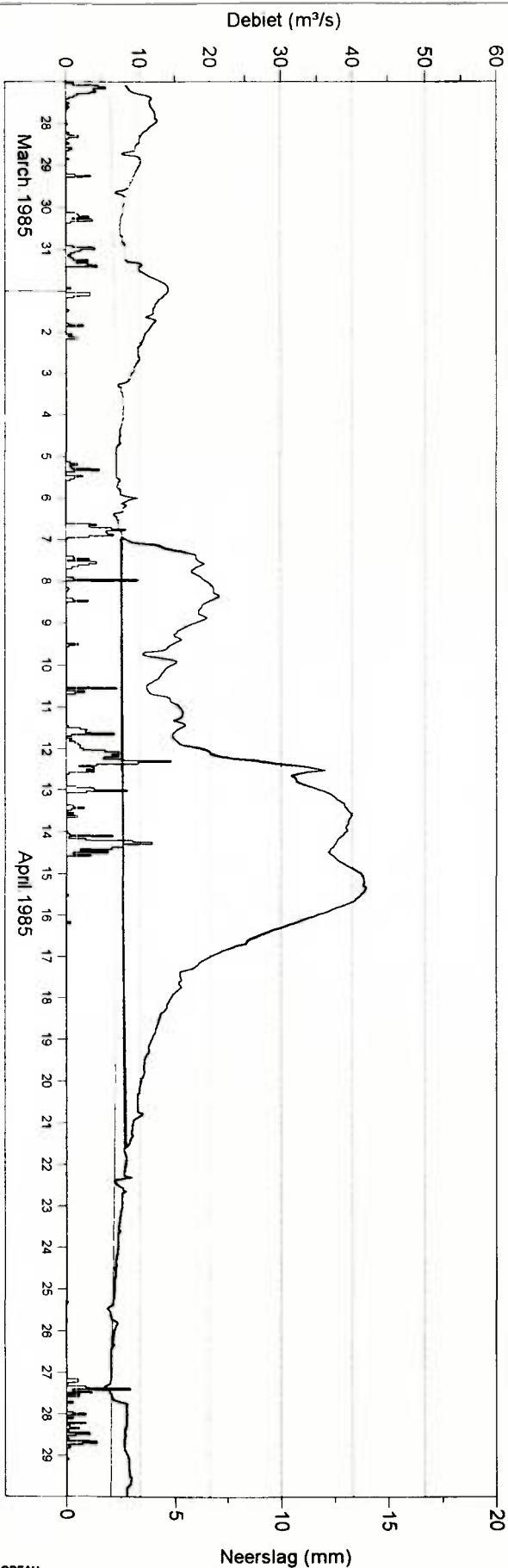
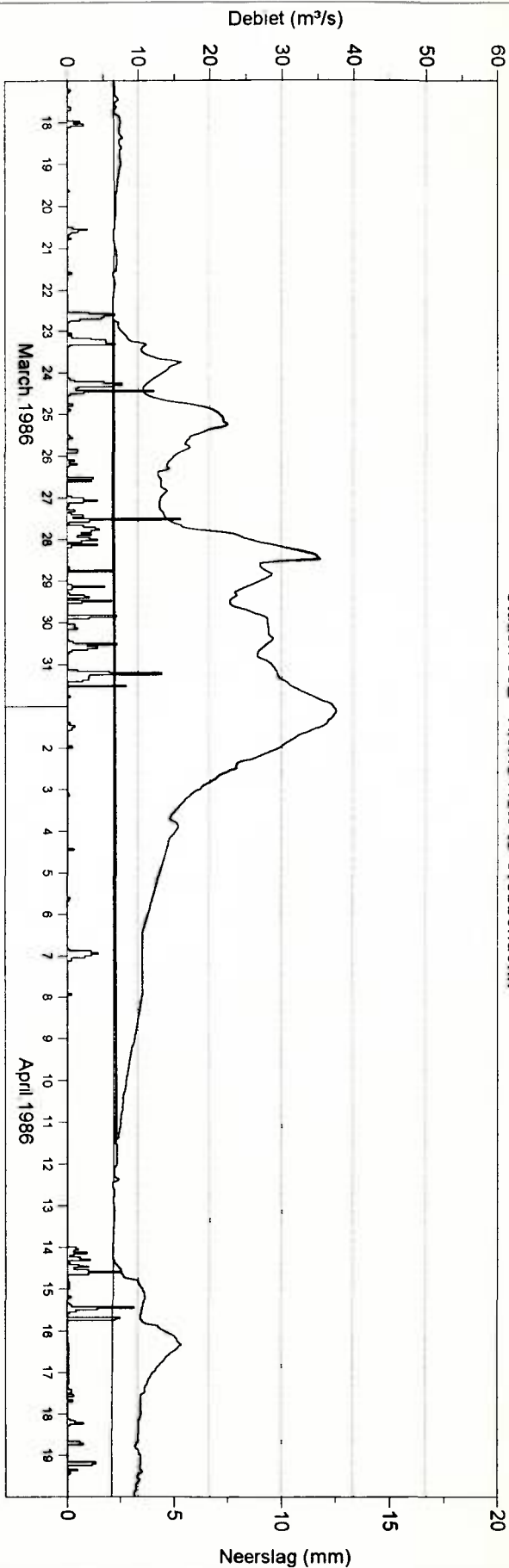
Station 052 - Kleine Nete te Grobbendonk



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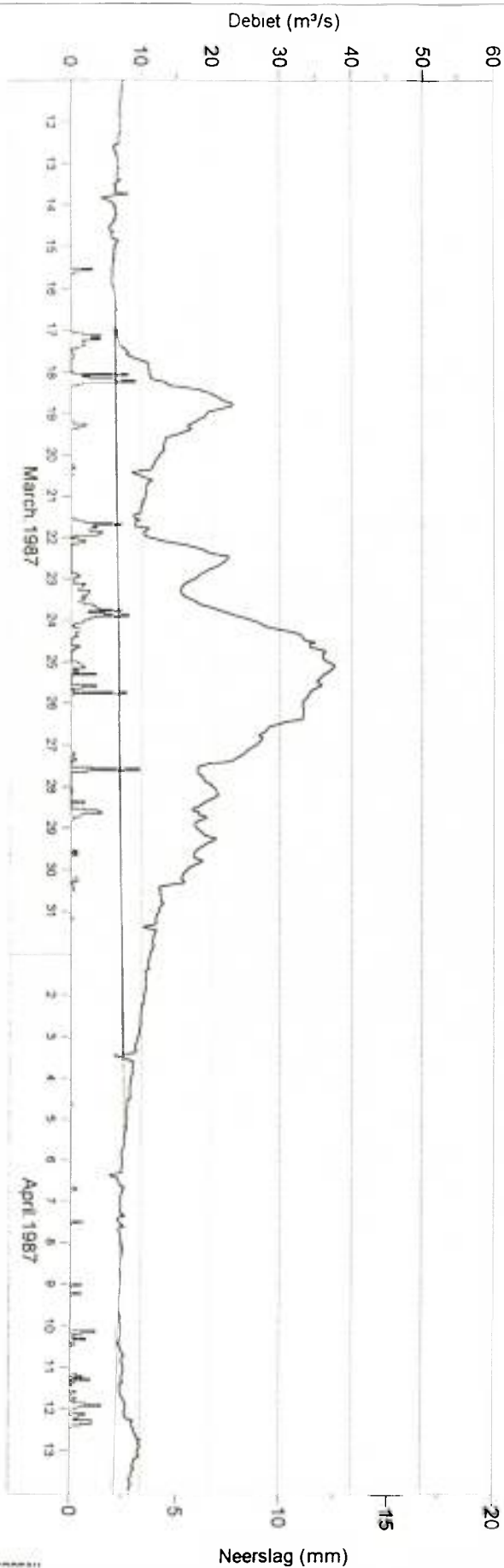
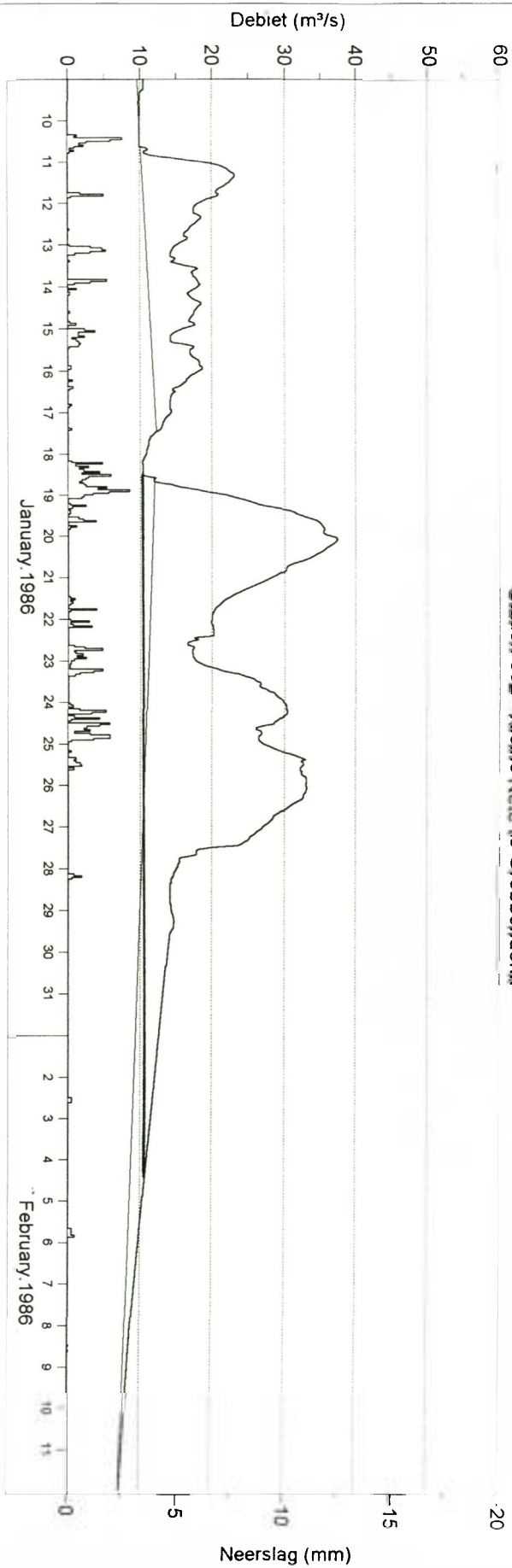
Uurwaarden van neerslag, debiet en basisafvoer

Station 052 - Kleine Nete te Grobbendonk



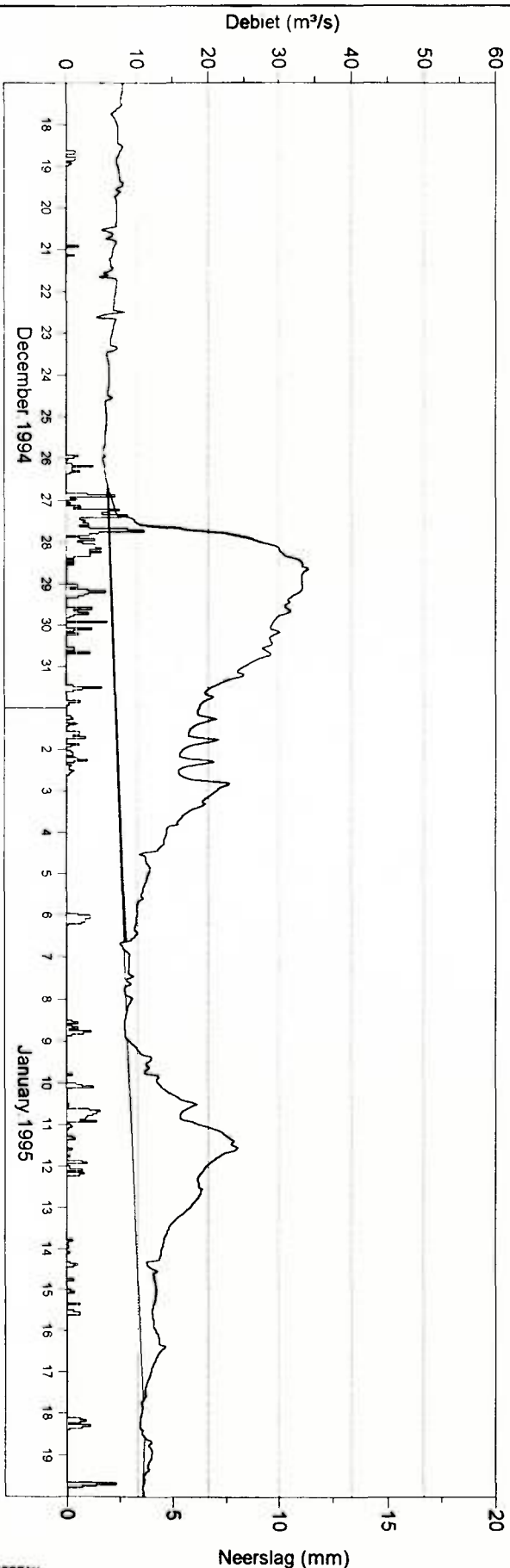
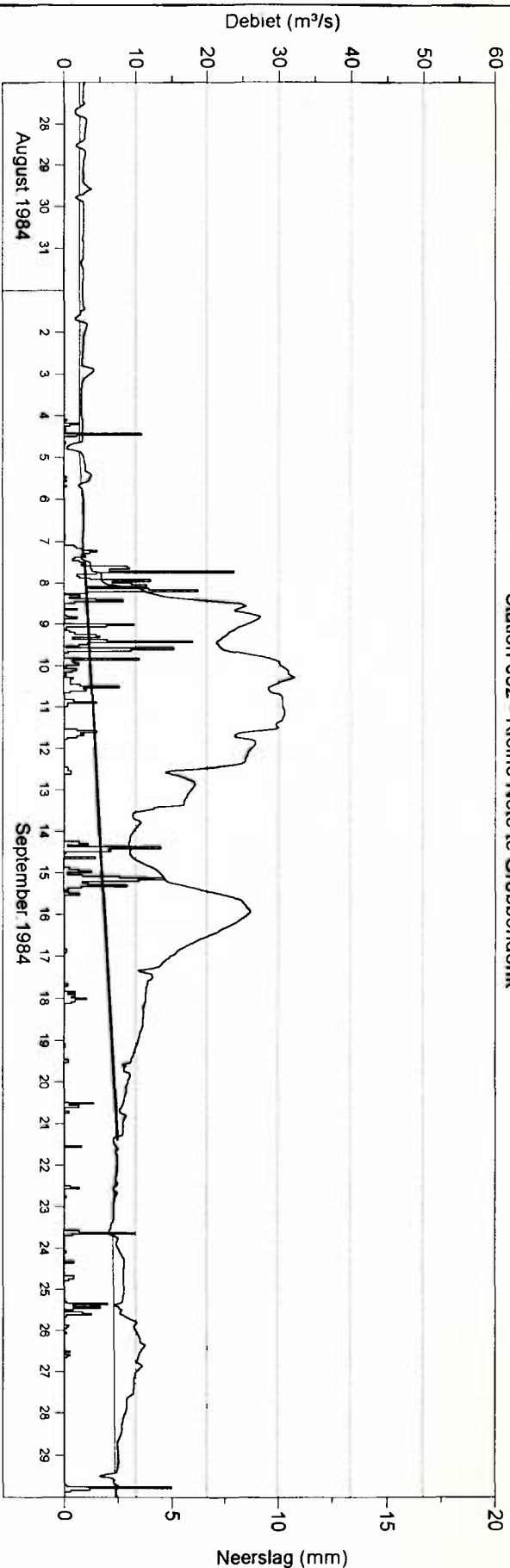
Uurwaarden van neerslag, debiet en basisafvoer

Station 052 - Kleine Nete te Grobbendonk



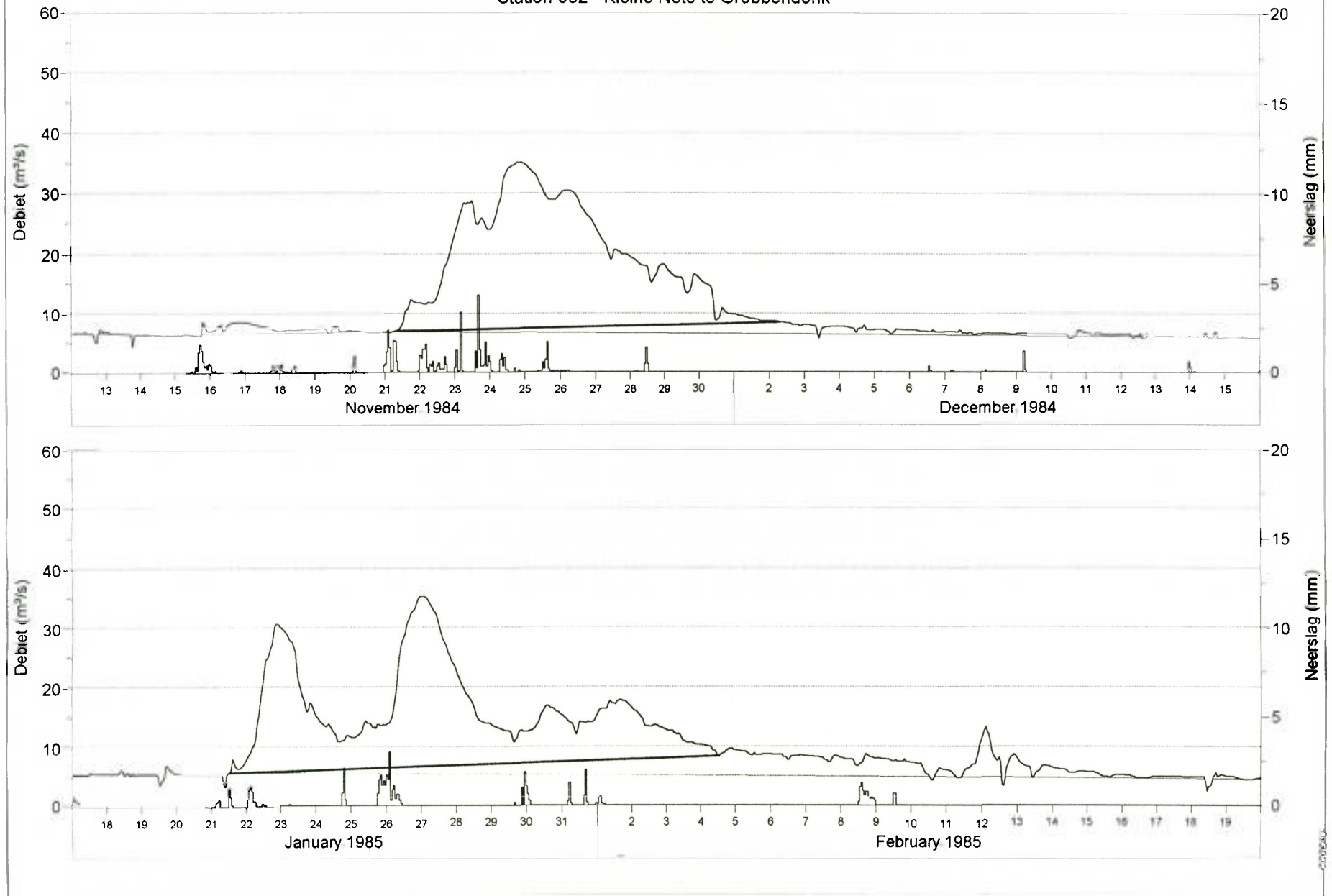
Uurwaarden van neerslag, debiet en basisafvoer

Station 052 - Kleine Nete te Grobbendonk



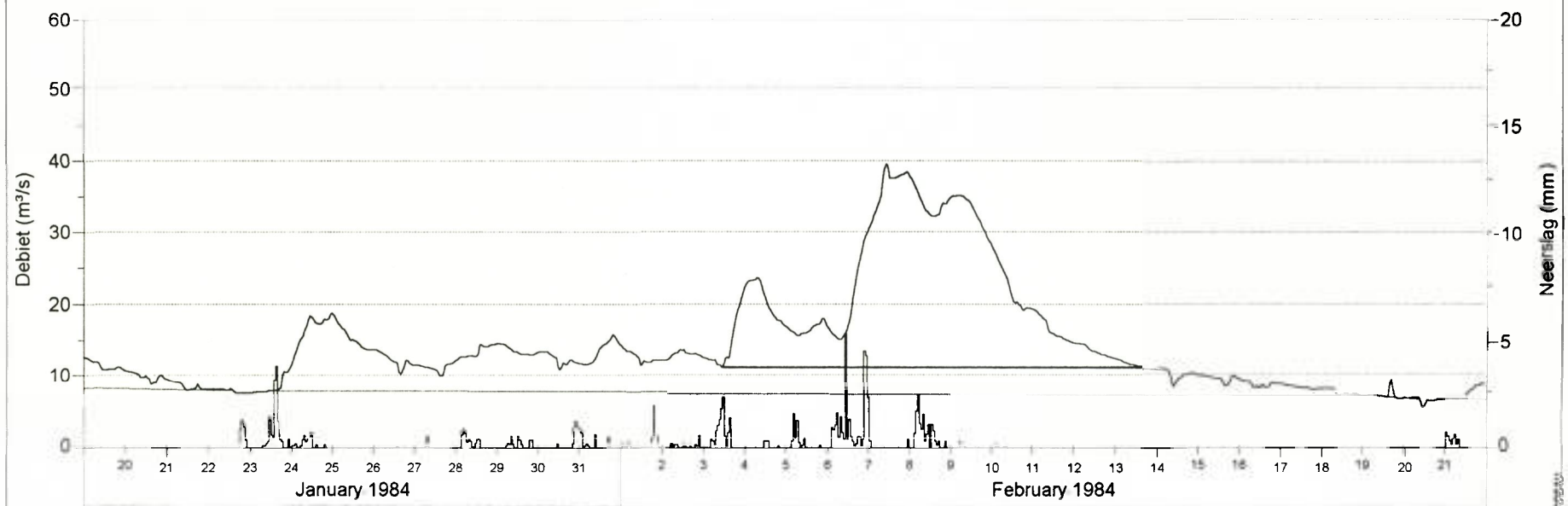
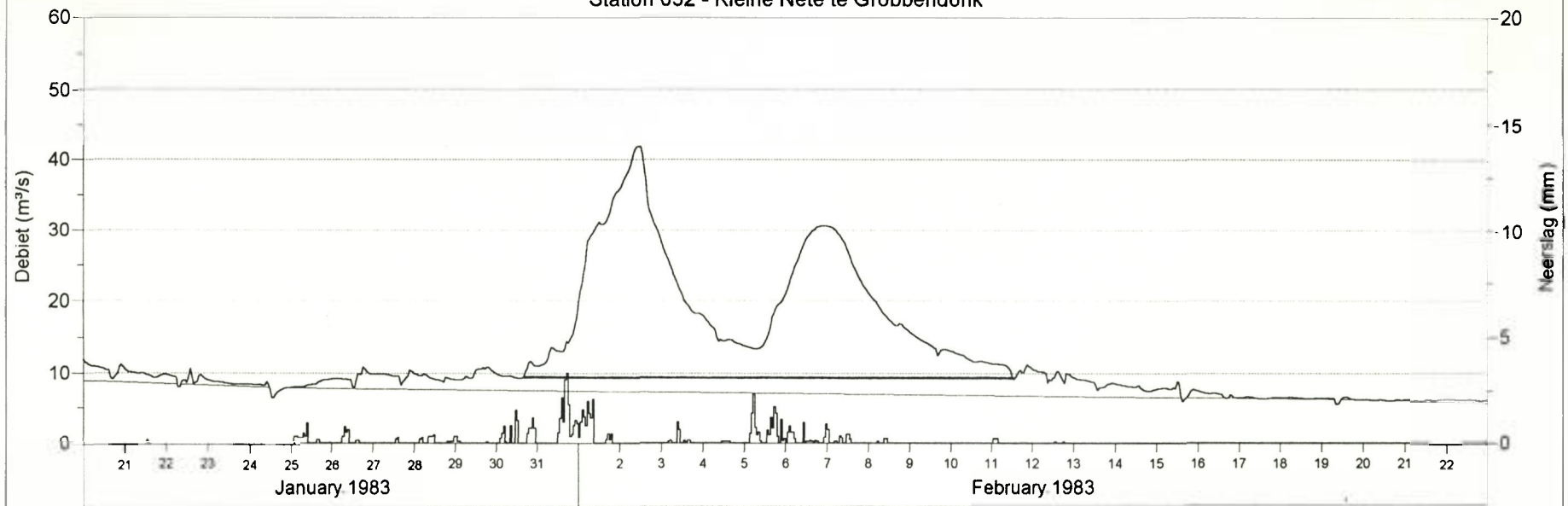
Uurwaarden van neerslag, debiet en basisafvoer

Station 052 - Kleine Nete te Grobbendonk



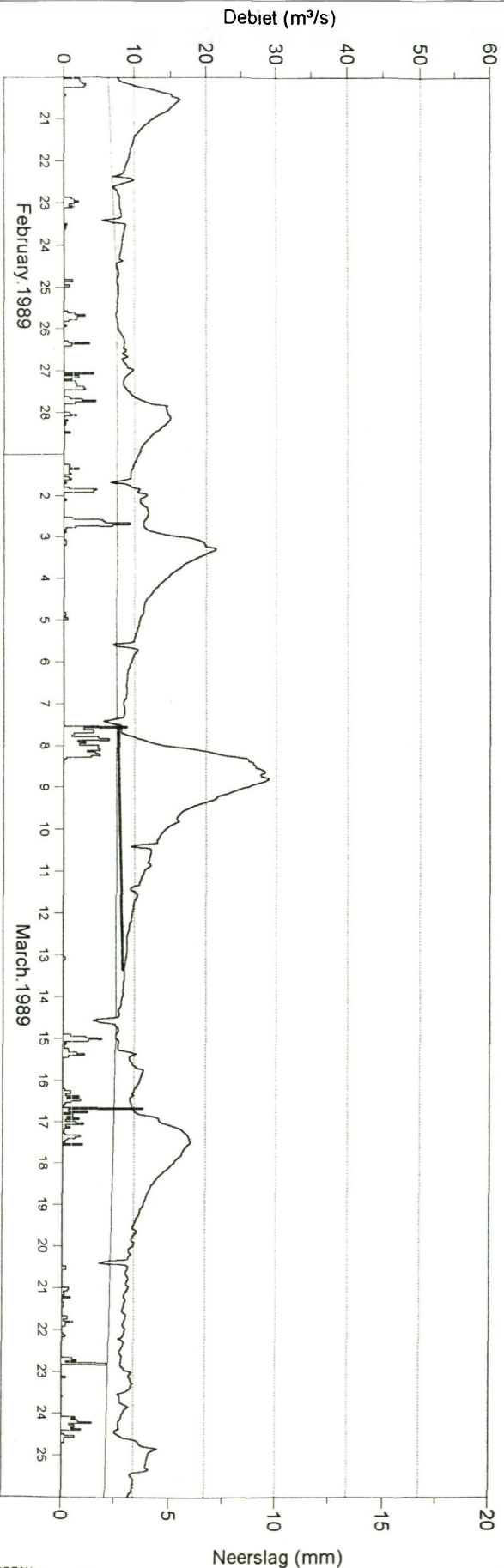
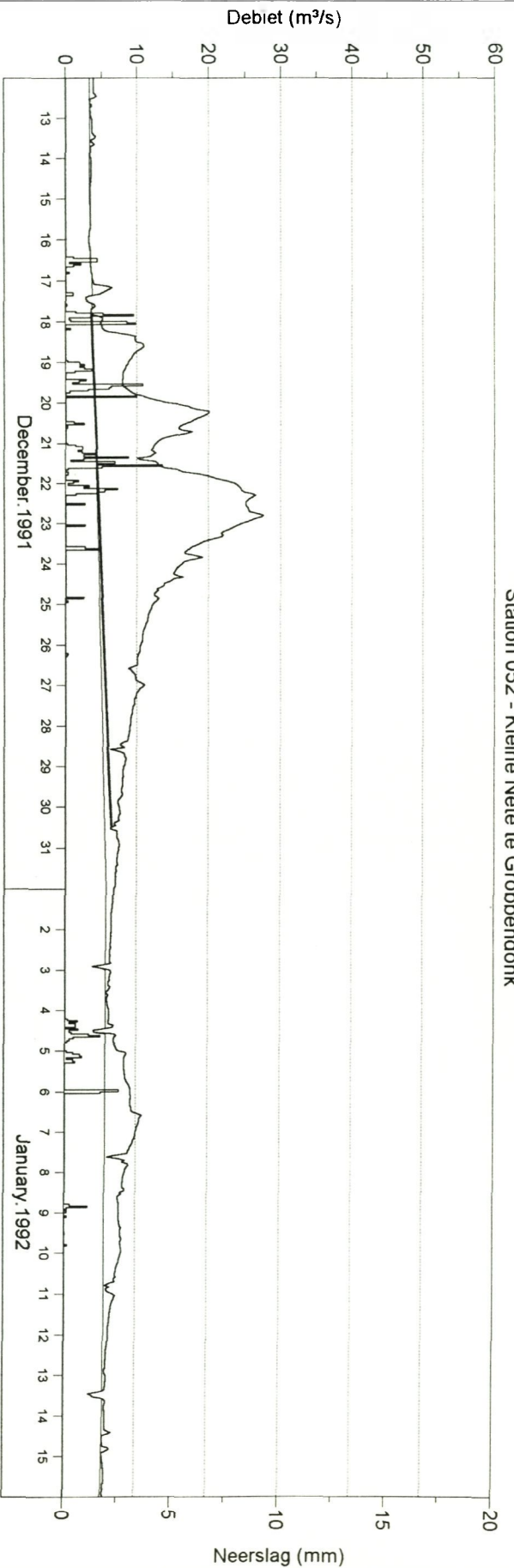
Uurwaarden van neerslag, debiet en basisafvoer

Station 052 - Kleine Nete te Grobbendonk

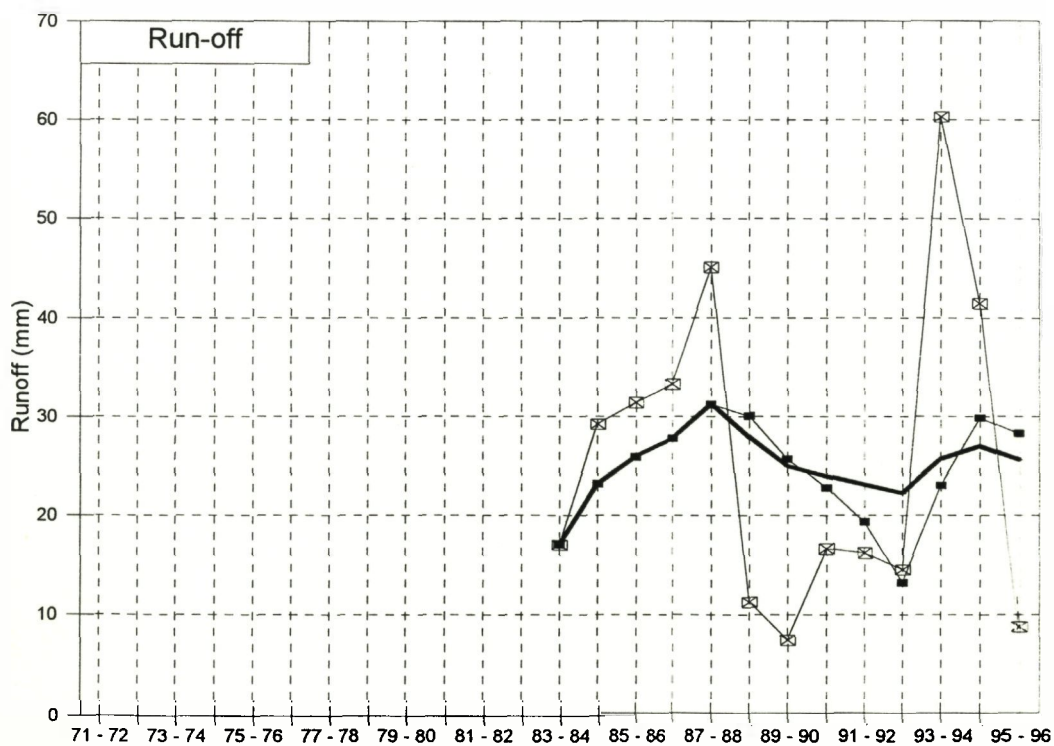
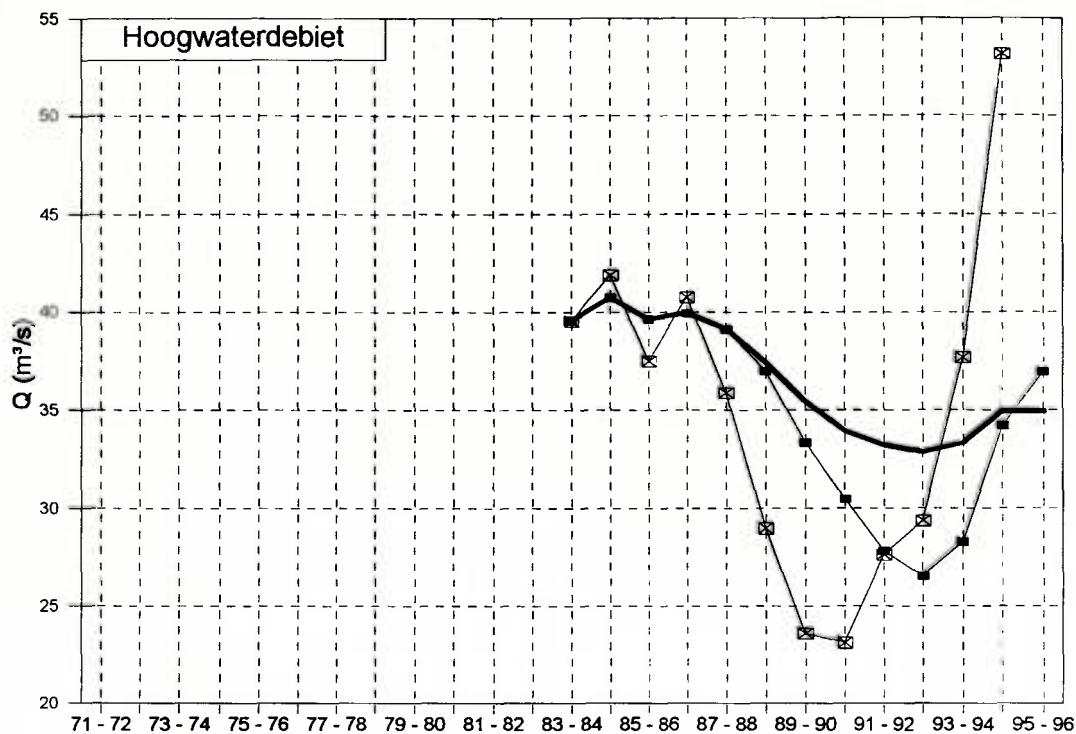


Uurwaarden van neerslag, debiet en basisafvoer

Station 052 - Kleine Nete te Grobbendonk

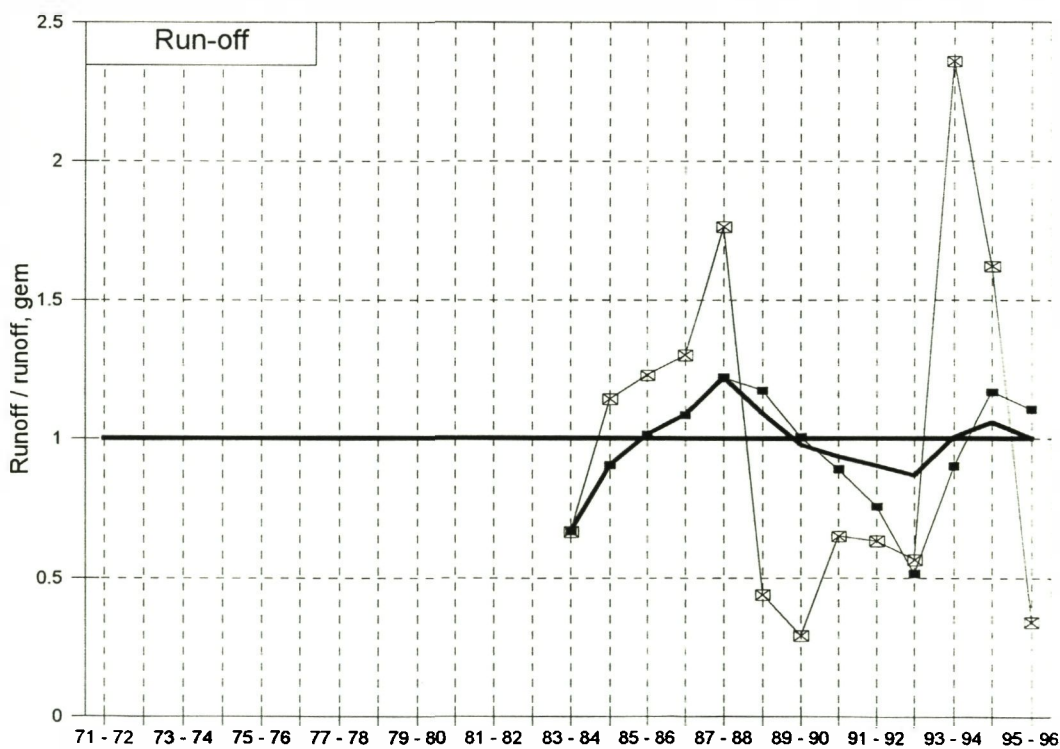
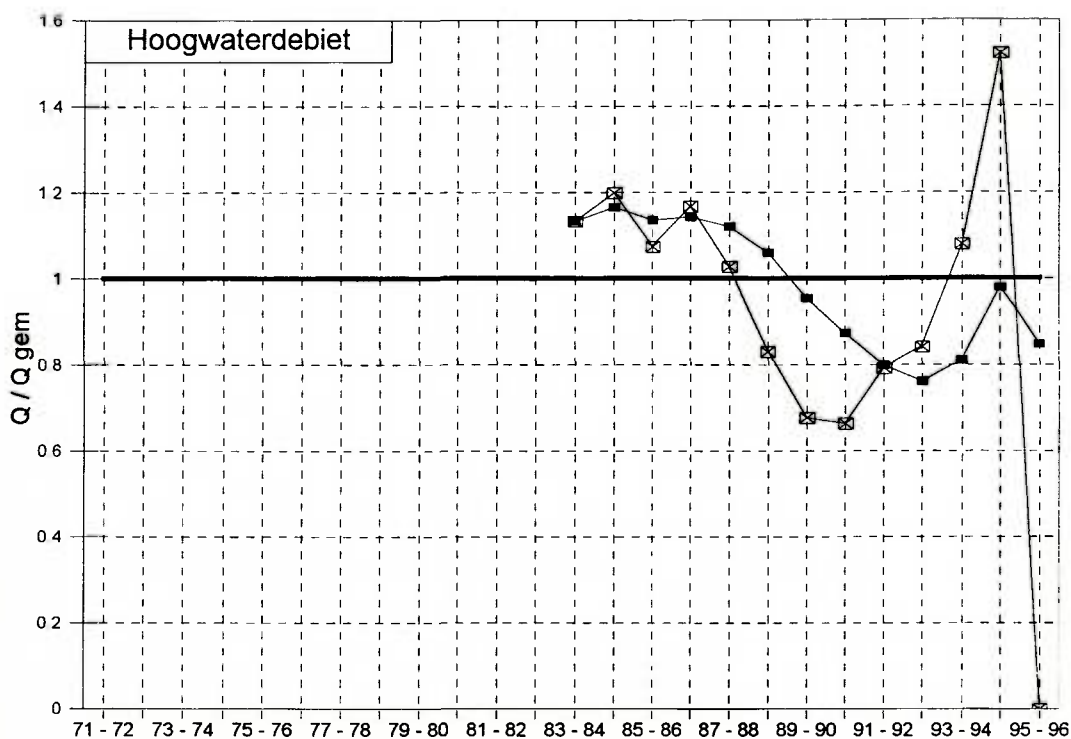


Station 052 : Kleine Nete/Grobbendonk



— doorlopend gemiddelde —x— Jaarmaxima —■— 5-jaargemiddelde

Station 052 : Kleine Nete/Grobbendonk

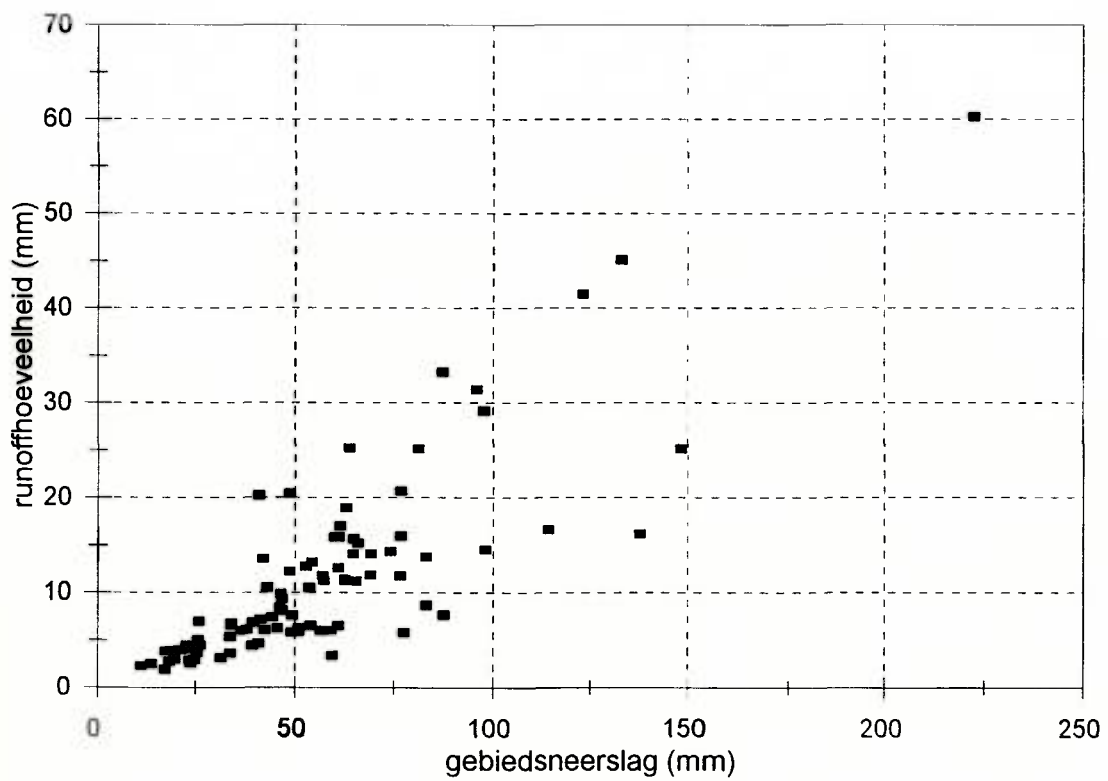
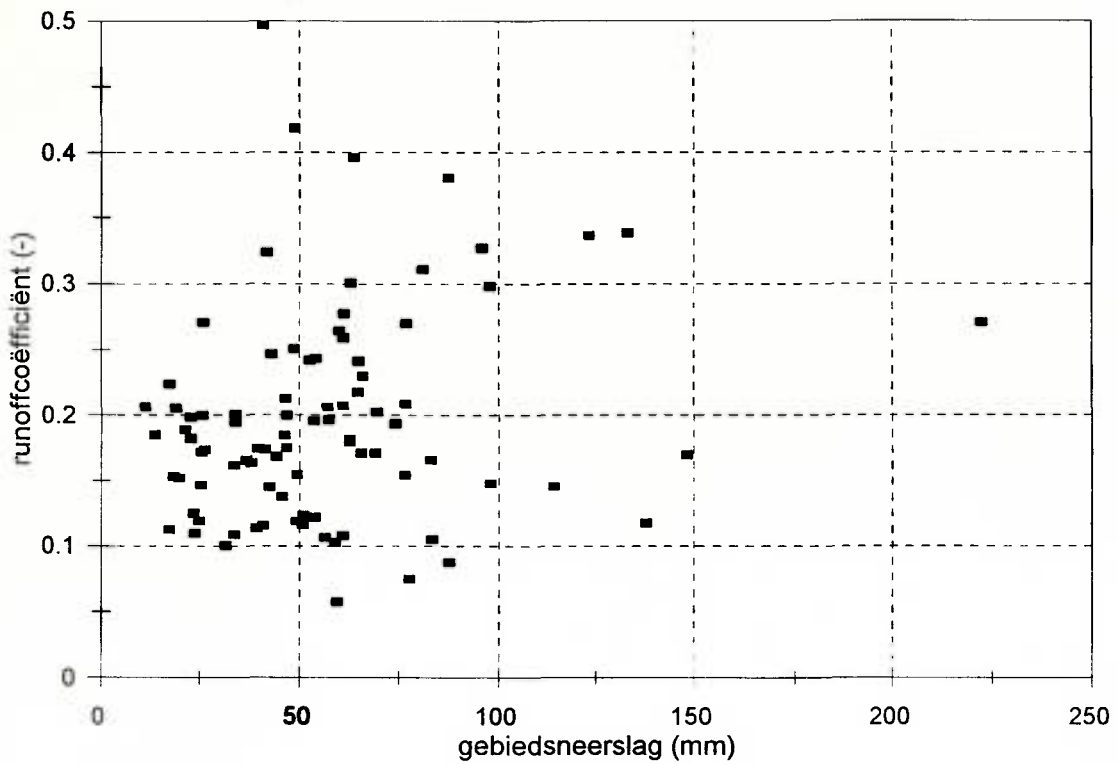


— doorlopend gemiddelde

—x— Jaarmaxima

—■— 5-jaargemiddelde

Station 052 : Kleine Neet /Grobbendonk

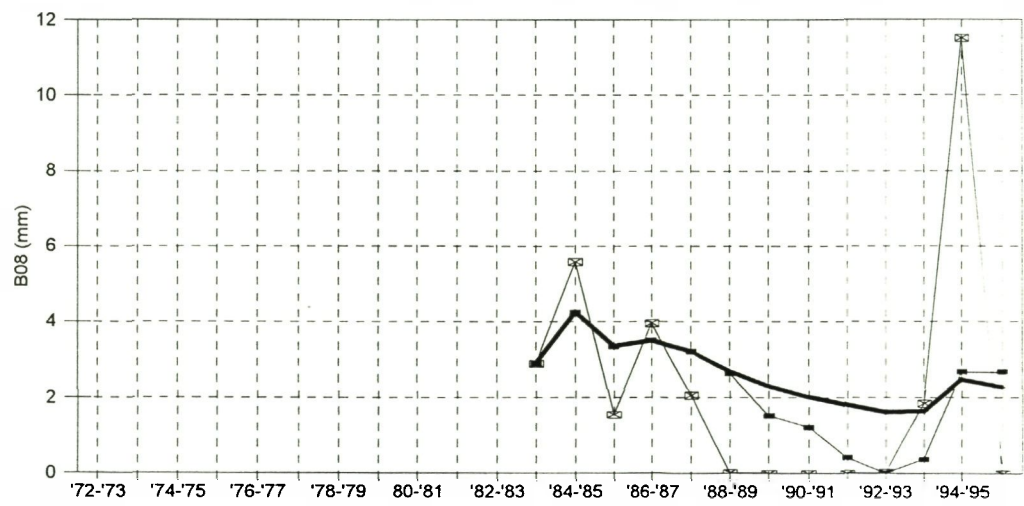
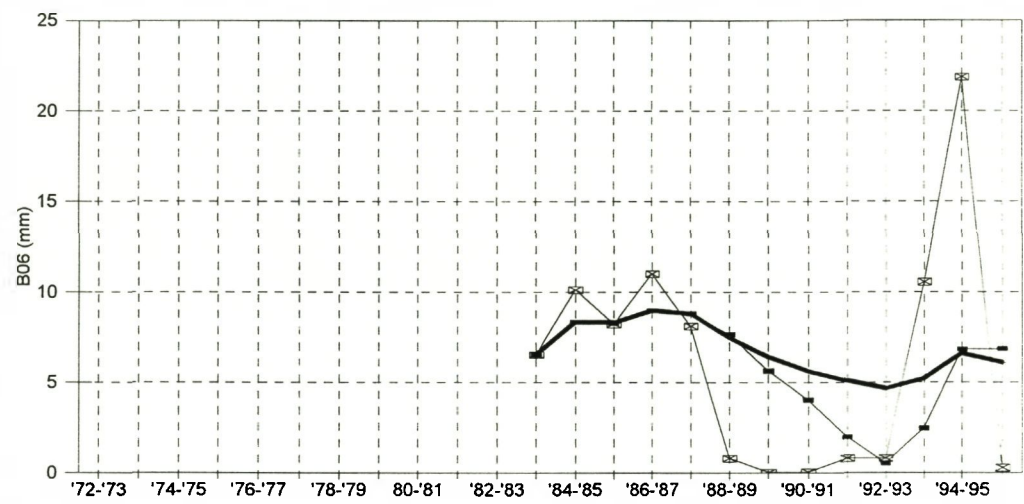
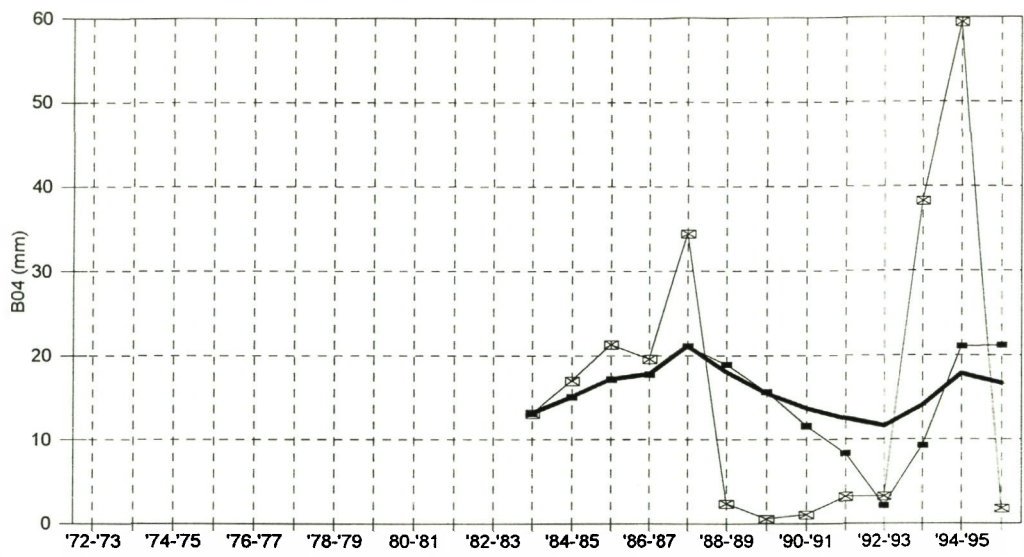


Jaarmaxima van bergingen					
Station 052 : Kleine Nete /Grobendonk			Gemidd. jaarmax : 34.92 m ³ /s		
Waterjaar	piekdebiet		berging		
	(m ³ /s)	datum	(mm)	(uur)	datum
Bergingen boven 0,3 Qgem					
'83 -'84	39.541	07/02/84	29.92	2600	14/02/84
'84 -'85	36.252	01/10/84	33.48	4474	30/11/84
'85 -'86	37.520	01/04/86	38.96	3985	04/02/86
'86 -'87	40.764	02/01/87	41.06	3946	02/04/87
'87 -'88	35.866	27/01/88	73.43	4439	03/04/88
'88 -'89	28.962	08/03/89	5.24	814	19/03/89
'89 -'90	23.590	01/03/90	2.78	319	04/03/90
'90 -'91	23.110	03/01/91	6.03	644	13/01/91
'91 -'92	27.631	22/12/91	5.83	517	26/12/91
'92 -'93	29.349	12/01/93	9.75	2194	15/12/92
'93 -'94	37.701	31/12/93	77.82	5332	12/04/94
'94 -'95	53.158	30/01/95	97.46	5378	03/04/95
'95 -'96	24.800	29/08/96	3.02	184	31/08/96
Bergingen boven 0,4 Qgem					
'83 -'84	39.541	07/02/84	13.10	588	12/02/84
'84 -'85	41.881	15/04/85	17.00	723	18/04/85
'85 -'86	37.442	20/01/86	21.32	1219	29/01/86
'86 -'87	40.764	02/01/87	19.57	820	08/01/87
'87 -'88	35.866	27/01/88	34.39	2437	01/04/88
'88 -'89	28.962	08/03/89	2.36	146	10/03/89
'89 -'90	23.590	01/03/90	0.56	81	02/03/90
'90 -'91	23.110	03/01/91	1.06	264	06/01/91
'91 -'92	27.631	22/12/91	3.19	234	24/12/91
'92 -'93	29.349	12/01/93	3.22	221	14/01/93
'93 -'94	37.701	31/12/93	38.21	3251	02/02/94
'94 -'95	53.158	30/01/95	59.38	3323	09/03/95
'95 -'96	24.800	29/08/96	1.77	107	31/08/96
Bergingen boven 0,5 Qgem					
'83 -'84	39.541	07/02/84	9.04	381	11/02/84
'84 -'85	41.881	15/04/85	12.70	370	17/04/85
'85 -'86	37.442	20/01/86	12.61	540	27/01/86
'86 -'87	40.764	02/01/87	15.17	548	07/01/87
'87 -'88	35.866	27/01/88	17.47	865	12/02/88
'88 -'89	28.962	08/03/89	1.46	83	09/03/89
'89 -'90	23.590	01/03/90	0.15	22	01/03/90
'90 -'91	23.110	03/01/91	0.30	43	03/01/91
'91 -'92	27.631	22/12/91	1.66	107	23/12/91
'92 -'93	29.349	12/01/93	1.70	114	13/01/93
'93 -'94	37.701	31/12/93	23.55	1521	07/01/94
'94 -'95	53.158	30/01/95	32.51	1790	27/02/95
'95 -'96	24.800	29/08/96	0.85	67	30/08/96

Jaarmaxima van bergingen**Station 052 : Kleine Nete /Grobbendonk****Gemidd. jaarmax. : 34.92 m³/s**

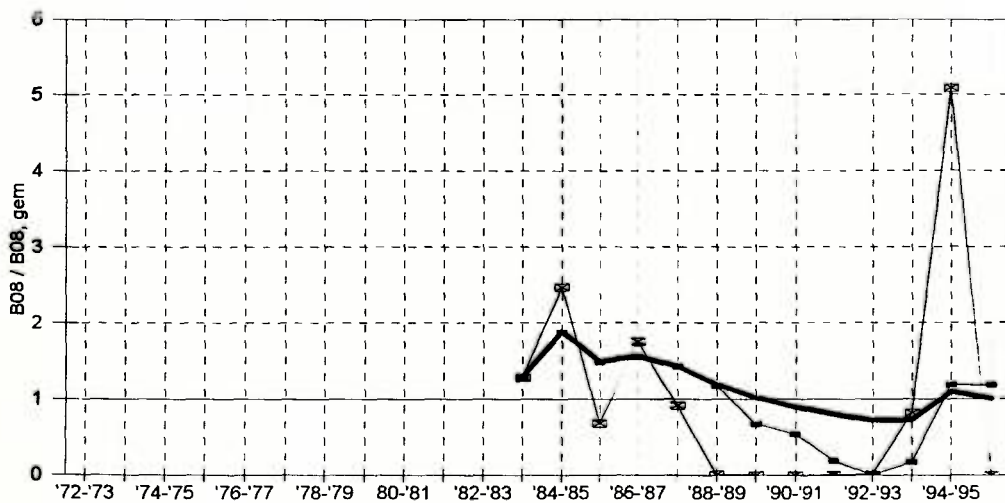
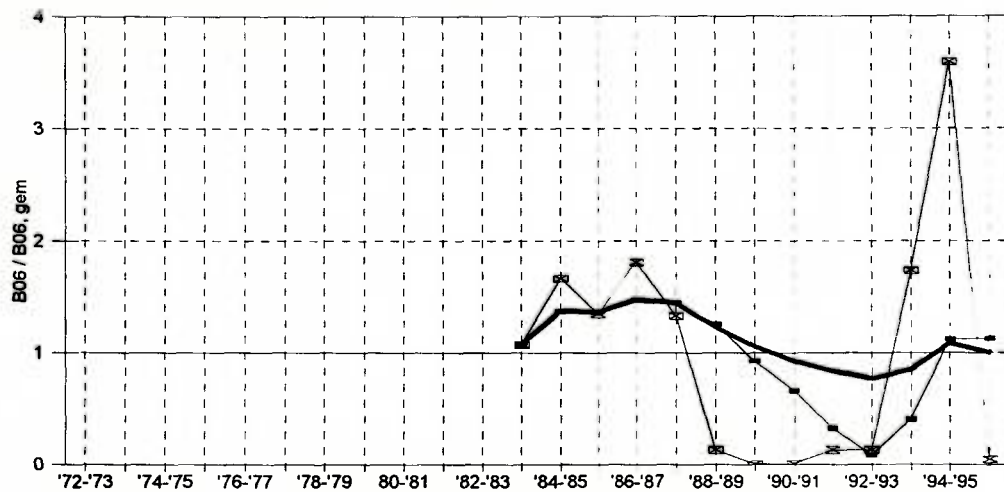
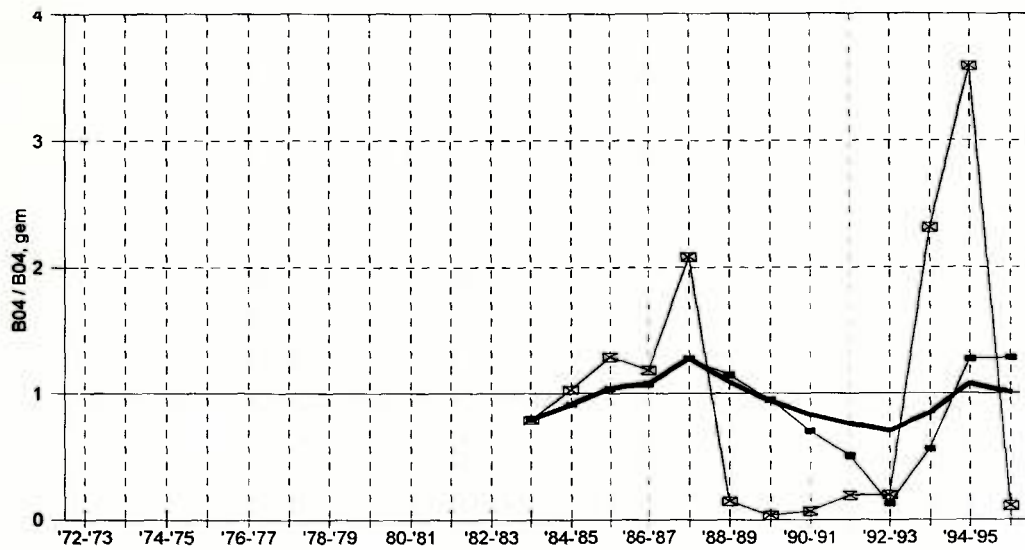
Waterjaar	piekdebiet		berging		
	(m³/s)	datum	(mm)	(uur)	datum
Bergingen boven 0,6 Qgem					
'83 -'84	39 541	07/02/84	6.53	224	10/02/84
'84 -'85	41 881	15/04/85	10.12	275	16/04/85
'85 -'86	37 442	20/01/86	8.21	376	27/01/86
'86 -'87	40 764	02/01/87	11.00	399	07/01/87
'87 -'88	35 866	27/01/88	8.10	588	30/01/88
'88 -'89	28 962	08/03/89	0.80	51	09/03/89
'89 -'90	23 590	01/03/90	0.04	5	01/03/90
'90 -'91	23 110	03/01/91	0.05	10	03/01/91
'91 -'92	27 631	22/12/91	0.79	64	23/12/91
'92 -'93	29 349	12/01/93	0.80	66	13/01/93
'93 -'94	37 701	31/12/93	10.54	820	07/01/94
'94 -'95	53 158	30/01/95	21.84	1193	03/02/95
'95 -'96	24 800	29/08/96	0.28	37	30/08/96
Bergingen boven 0,7 Qgem					
'83 -'84	39 541	07/02/84	4.61	168	10/02/84
'84 -'85	41 881	15/04/85	7.77	215	16/04/85
'85 -'86	37 520	01/04/86	4.02	205	02/04/86
'86 -'87	40 764	02/01/87	6.98	285	07/01/87
'87 -'88	35 866	27/01/88	4.72	319	30/01/88
'88 -'89	28 962	08/03/89	0.31	30	09/03/89
'89 -'90			0.00	0	
'90 -'91			0.00	0	
'91 -'92	27 631	22/12/91	0.17	31	23/12/91
'92 -'93	29 349	12/01/93	0.22	27	13/01/93
'93 -'94	37 701	31/12/93	4.25	250	05/01/94
'94 -'95	53 158	30/01/95	15.86	750	03/02/95
'95 -'96	24 800	29/08/96	0.01	6	29/08/96
Bergingen boven 0,8 Qgem					
'83 -'84	39 541	07/02/84	2.89	127	10/02/84
'84 -'85	41 881	15/04/85	5.58	171	16/04/85
'85 -'86	37 520	01/04/86	1.55	85	02/04/86
'86 -'87	40 764	02/01/87	3.95	223	03/01/87
'87 -'88	35 866	27/01/88	2.06	174	29/01/88
'88 -'89	28 962	08/03/89	0.02	8	08/03/89
'89 -'90			0.00	0	
'90 -'91			0.00	0	
'91 -'92			0.00	0	
'92 -'93	29 349	12/01/93	0.02	4	12/01/93
'93 -'94	37 701	31/12/93	1.84	179	04/01/94
'94 -'95	53 158	30/01/95	11.50	355	02/02/95
'95 -'96			0.00	0	

Station 052 : Kleine Nete /Grobbendonk



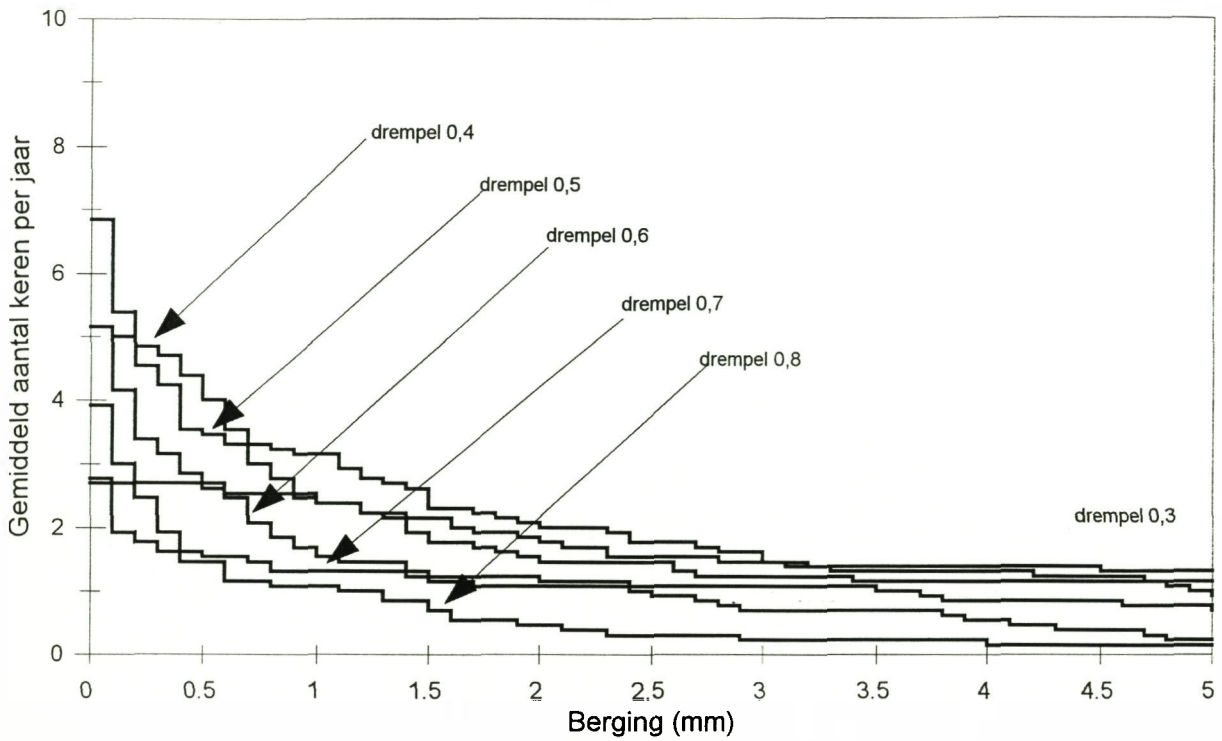
— doorlopend gemiddelde —□— Jaarmaxima —■— 5-jaargemiddelde

Station 052 : Kleine Nete /Grobbendonk

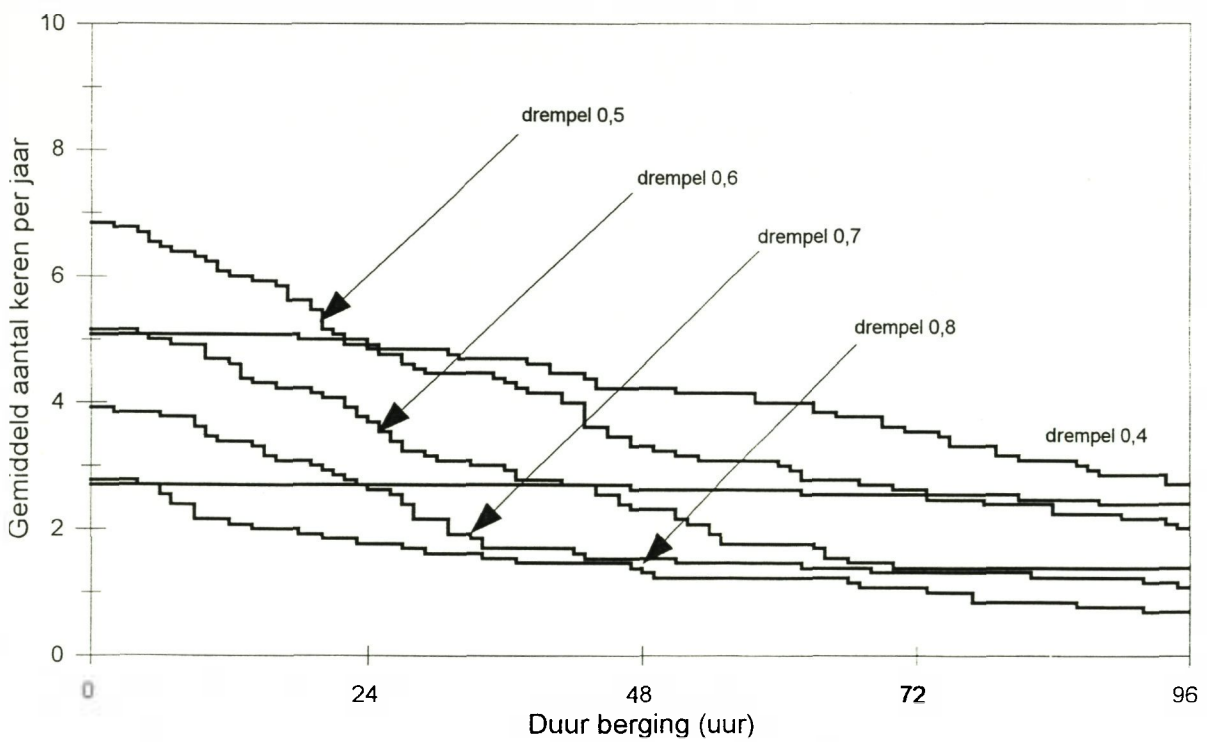


— doorlopend gemiddelde —□— Jaarmaxima —■— 5-jaargemiddelde

Station 052-Kleine Nete te Grobbendonk



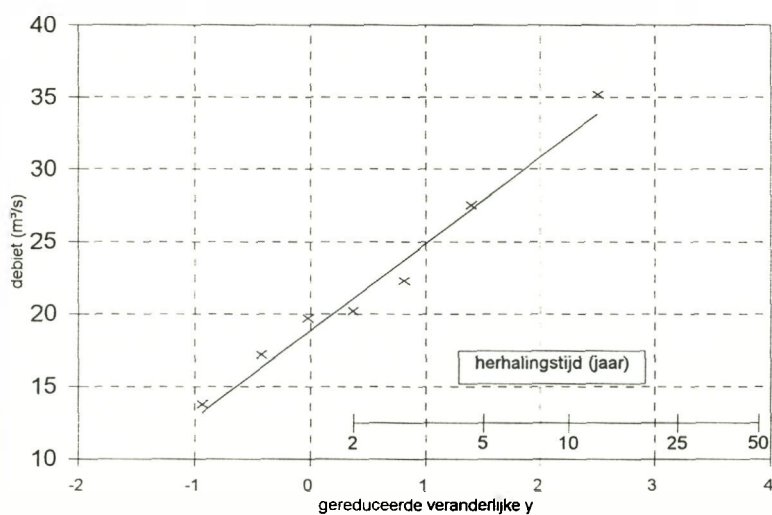
Station 052-Kleine Nete te Grobbendonk



9. Station 054
**De Kleine Nete
te Herentals**

Station nr. 054 : Kleine Nete te Herentals

Nr.	Waterjaar	Datum	Hoogte (cm)	Debiet (m³/s)
1	'89 - '90	24/01/90	-	13 790
2	'90 - '91	3/01/91	-	17 204
3	'91 - '92	9/06/92	-	19 711
4	'92 - '93	12/01/93	-	20 216
5	'88 - '89	8/03/89	-	22 323
6	'93 - '94	31/12/93	-	27 519
7	'94 - '95	30/01/95	-	35.197



Herhalingstijd (jaar)	Debiet (m³/s)	Spec. afvoer (l/s.ha)
2	21.014	0.63
5	27.824	0.84
10	32.334	0.97
25	38.031	1.15
50	42.257	1.27

Station 054 : Kleine Nete te Herentals - stuw

Runoffhoeveelheden

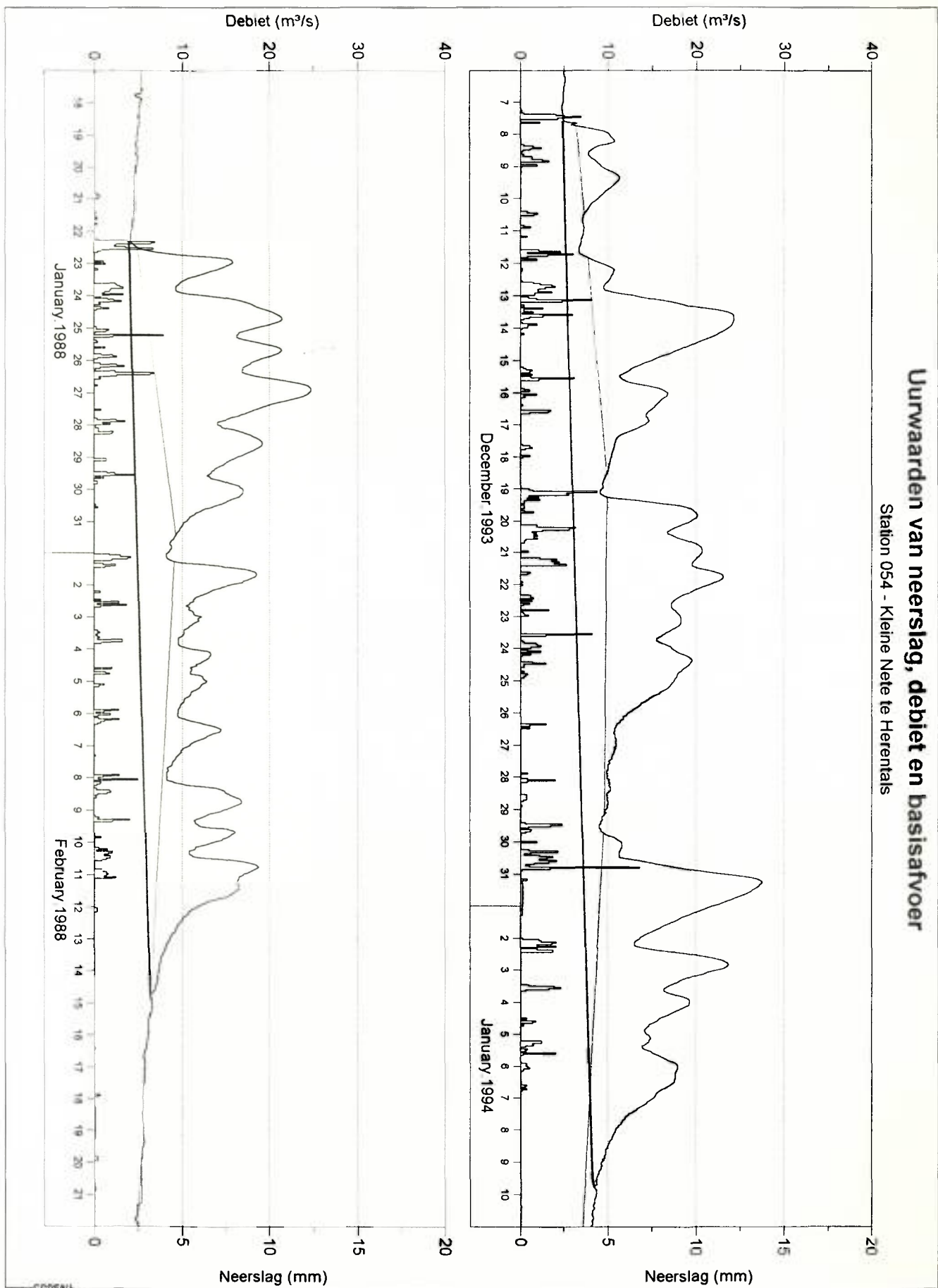
Stroomgebied = 33176 ha

Tijdreeks : 1988 - '96

Nr	Was van (datum Q_{max})	q_{max} (l/s ha)	q_{begin} (l/s ha)	q_{eind} (l/s ha)	Neerslag som (mm)	Neerslag duur (uur)	Concentratie tijd (uur)	Runoff (mm)	Runoff- Coëff. (-)	Runoff duur (uur)
1	31/12/93	0.83	0.15	0.25	217.9	734	64	65.6	0.30	796
2	26/01/88	0.74	0.13	0.19	131.3	536	43	48.6	0.37	563
3	30/01/95	1.06	0.20	0.26	121.9	273	46	43.7	0.36	356
4	03/01/91	0.52	0.09	0.15	112.9	440	70	24.7	0.22	525
5	28/12/94	0.83	0.14	0.17	79.6	272	31	22.6	0.28	302
6	22/12/91	0.59	0.09	0.18	74.7	261	61	16.7	0.22	286
7	20/12/89	0.38	0.07	0.14	98.3	385	79	15.2	0.15	400
8	14/03/88	0.62	0.19	0.21	44.1	149	34	12.7	0.29	176
9	12/01/93	0.61	0.11	0.18	50.2	235	45	12.6	0.25	263
10	13/11/91	0.37	0.05	0.14	115.4	345	68	12.4	0.11	347
11	23/01/94	0.64	0.19	0.23	50.0	253	31	12.3	0.25	274
12	25/03/88	0.70	0.21	0.22	62.2	302	32	12.0	0.19	292
13	20/02/95	0.74	0.26	0.30	53.7	203	30	11.8	0.22	216
14	11/01/88	0.44	0.14	0.19	49.1	233	42	10.5	0.21	316
15	04/12/96	0.59	0.18	0.18	48.5	176	39	10.1	0.21	225
16	07/03/88	0.60	0.15	0.20	46.3	220	29	10.0	0.22	250
17	04/04/94	0.54	0.19	0.21	54.4	216	33	9.9	0.18	264
18	11/06/95	0.40	0.14	0.15	54.9	216	41	9.8	0.18	284
19	24/07/88	0.51	0.12	0.14	58.7	176	20	9.6	0.16	205
20	15/11/93	0.61	0.12	0.13	45.2	62	46	9.4	0.21	192
21	05/09/92	0.32	0.10	0.12	84.1	255	67	9.4	0.11	320
22	29/08/96	0.51	0.07	0.12	87.1	103	37	8.4	0.10	167
23	11/01/95	0.53	0.16	0.21	25.5	172	25	8.1	0.32	225
24	14/02/90	0.40	0.16	0.17	47.8	211	50	8.0	0.17	283
25	23/12/95	0.38	0.07	0.10	56.5	155	57	8.0	0.14	221
26	31/10/94	0.46	0.13	0.16	40.6	68	53	7.9	0.19	195
27	01/03/90	0.41	0.14	0.14	44.1	191	48	7.9	0.18	266
28	23/01/93	0.60	0.16	0.18	42.6	233	21	7.9	0.18	259
29	09/06/92	0.59	0.10	0.12	51.3	32	35	7.7	0.15	128
30	19/03/94	0.71	0.15	0.22	40.0	102	33	7.7	0.19	168

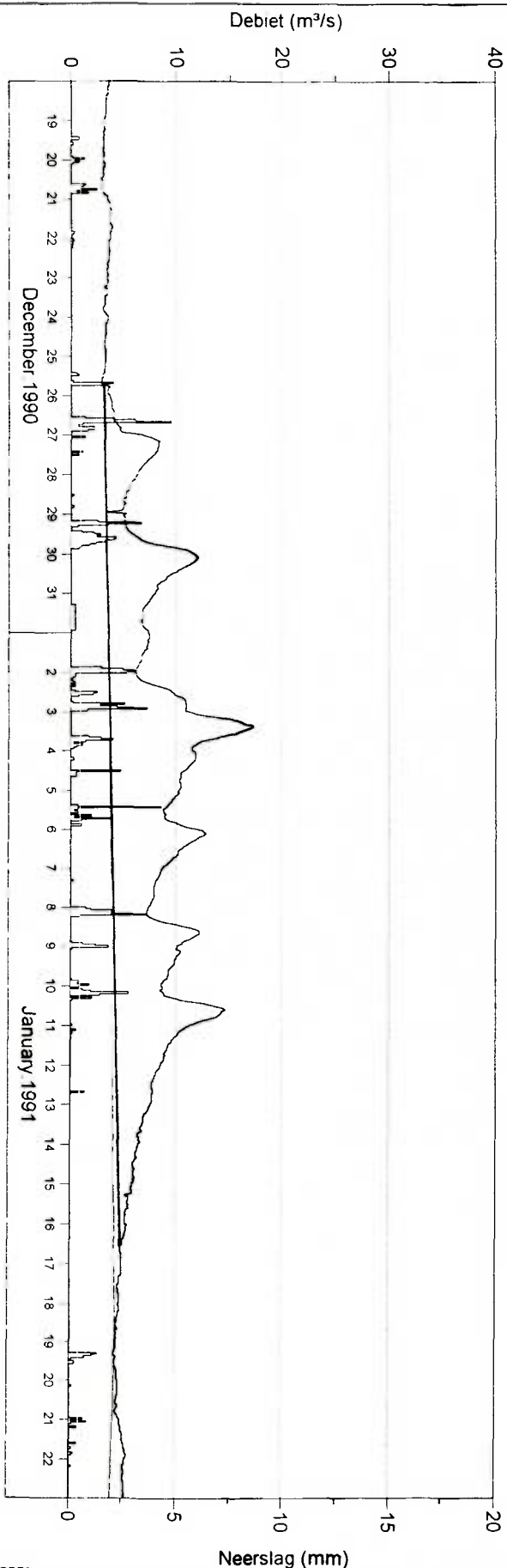
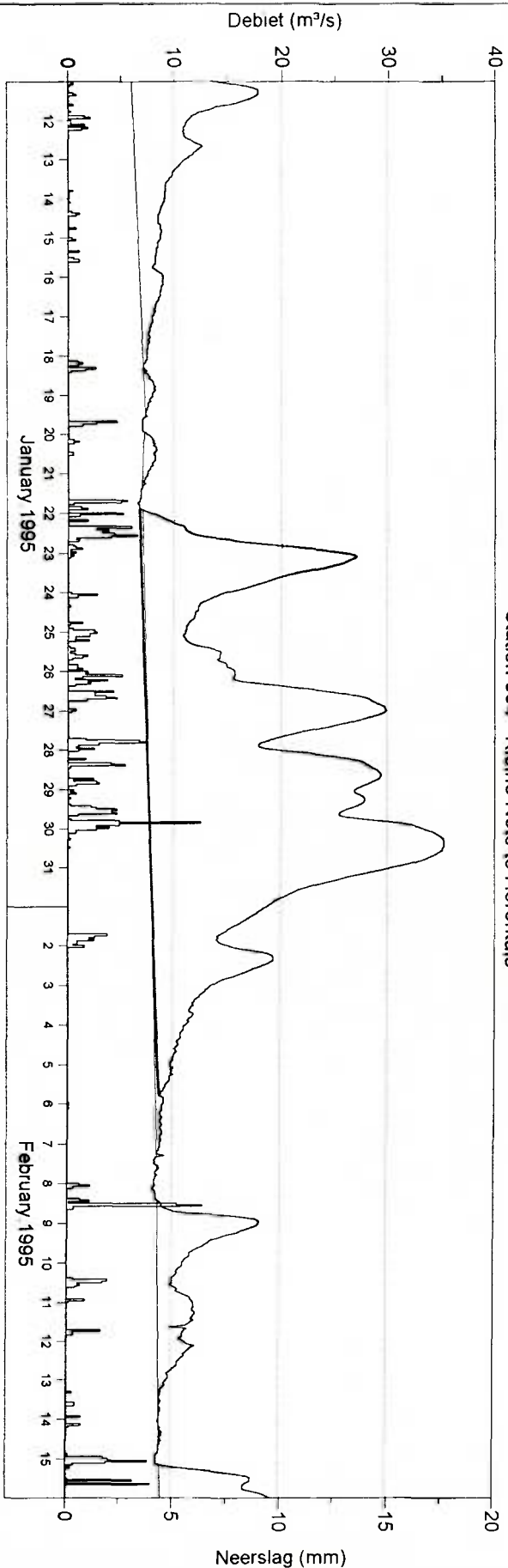
Uurwaarden van neerslag, debiet en basisafvoer

Station 054 - Kleine Nete te Herentals



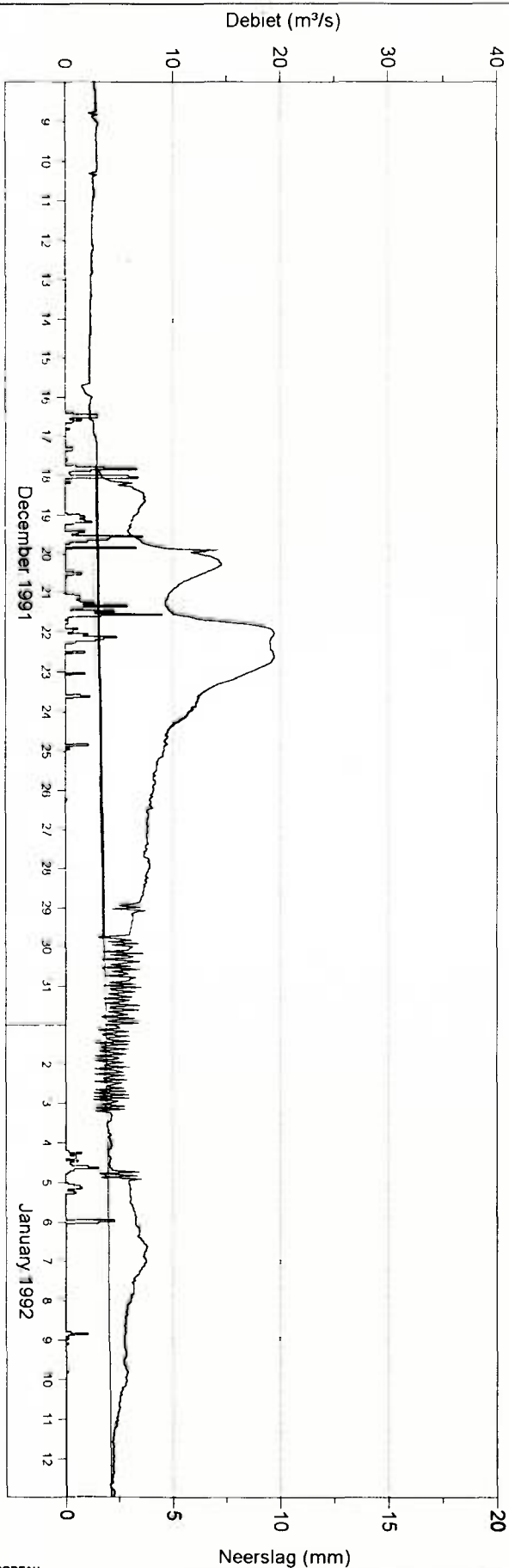
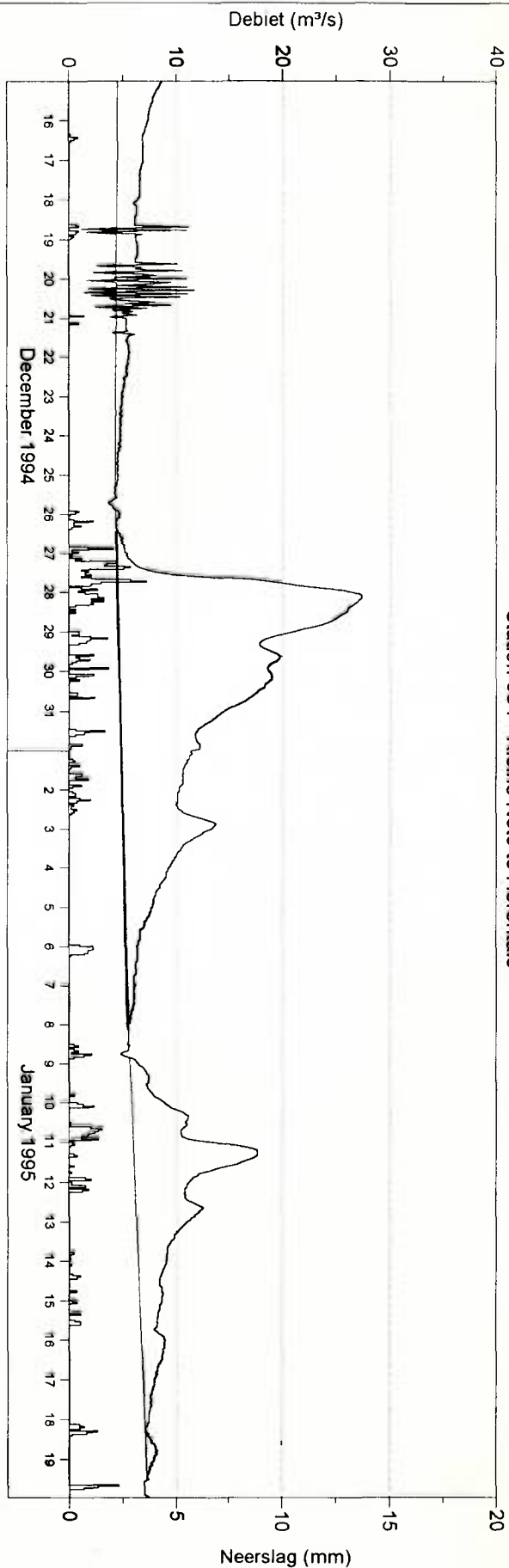
Uurwaarden van neerslag, debiet en basisafvoer

Station 054 - Kleine Nete te Herentals



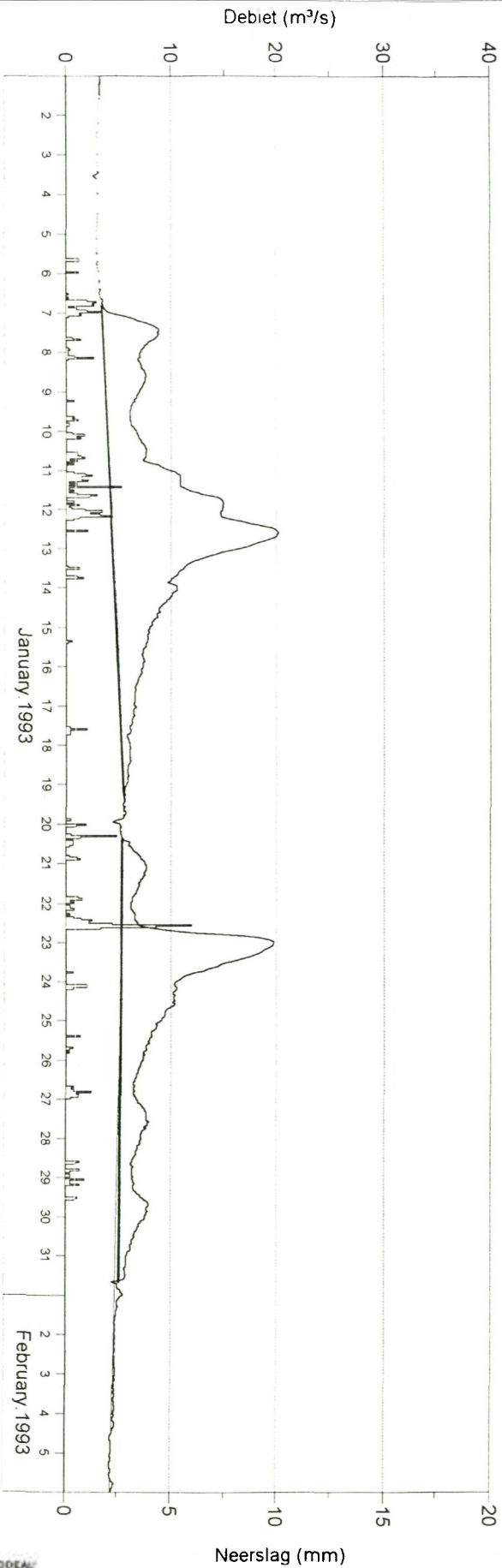
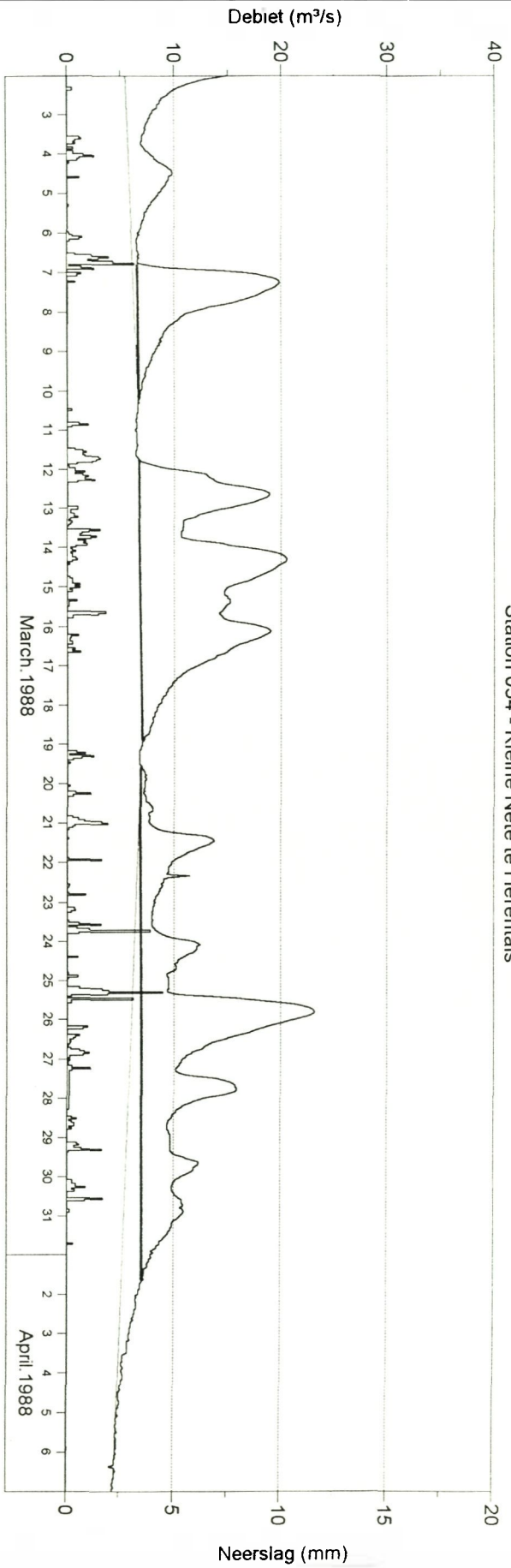
Uurwaarden van neerslag, debiet en basisafvoer

Station 054 - Kleine Nete te Herentals



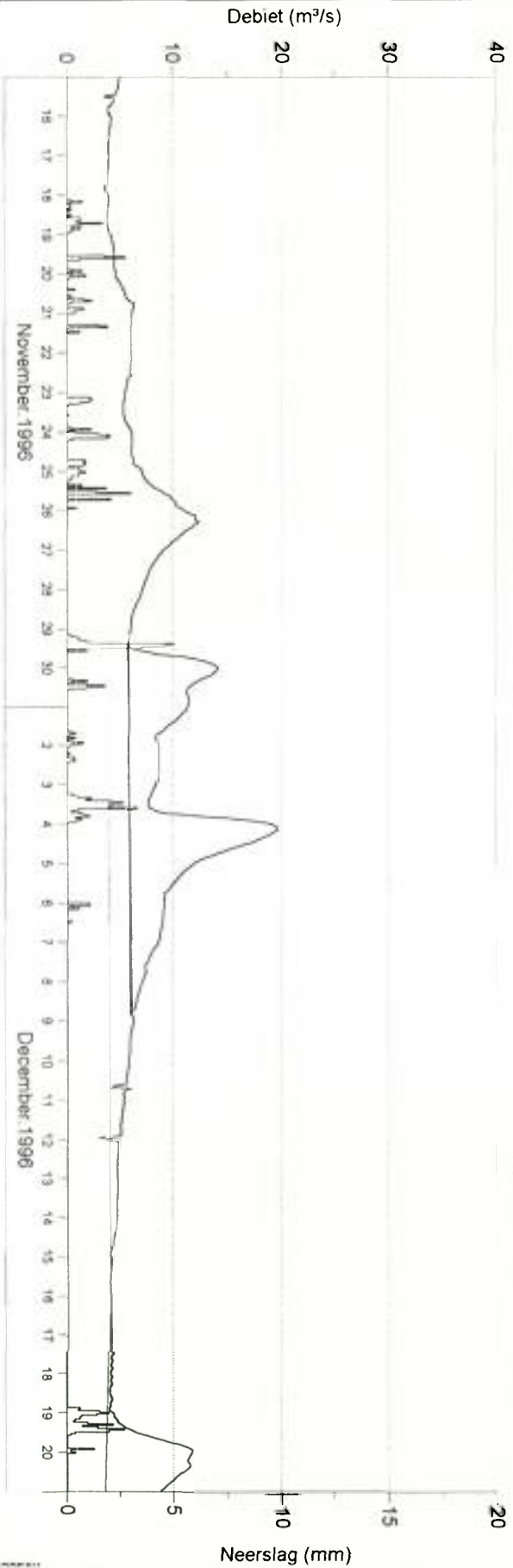
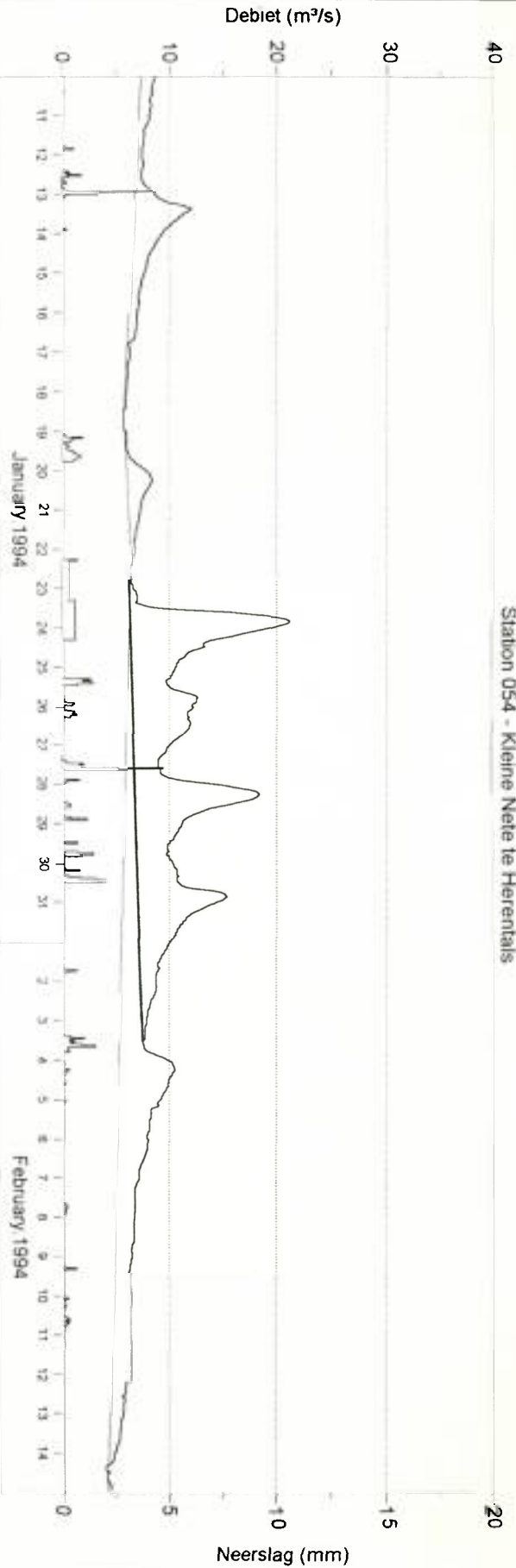
Uurwaarden van neerslag, debiet en basisafvoer

Station 054 - Kleine Nete te Herentals

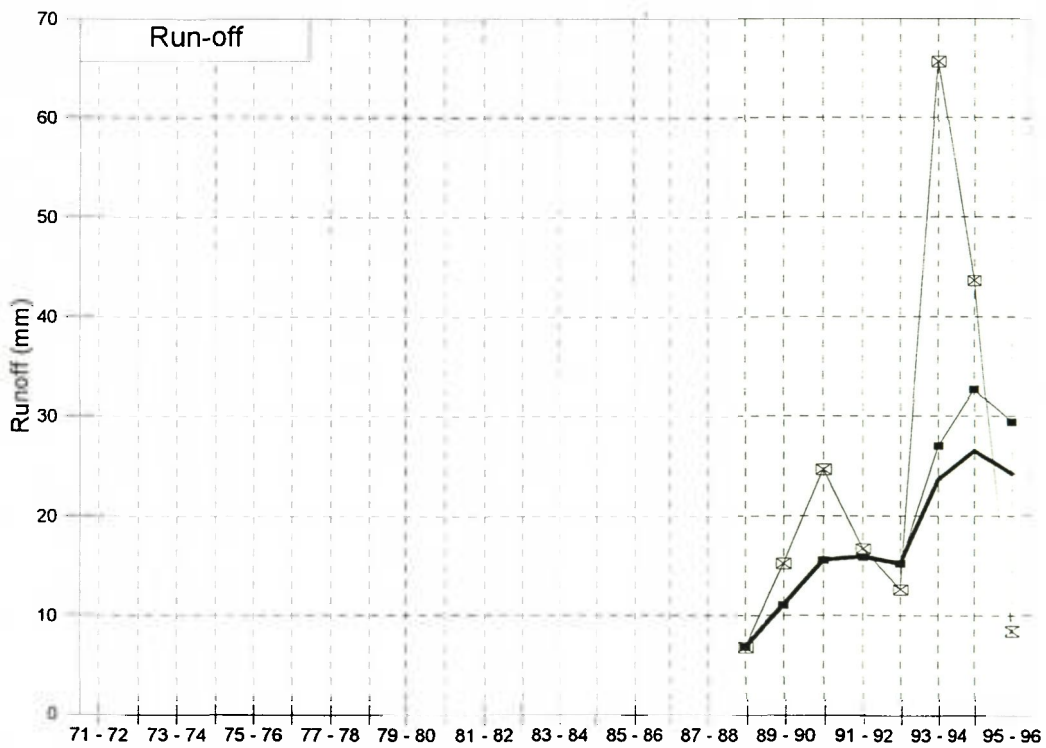
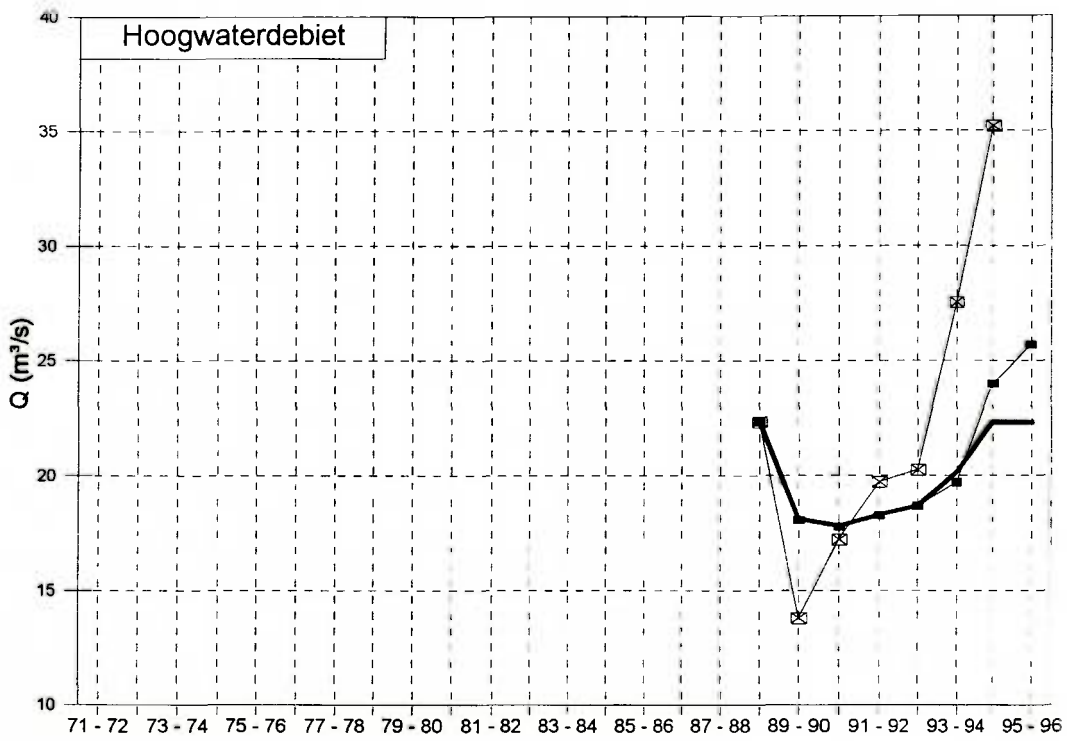


Uurwaarden van neerslag, debiet en basisafvoer

Station 054 - Kleine Nete te Herentals



Station 054 : Kleine Nete / Herentals

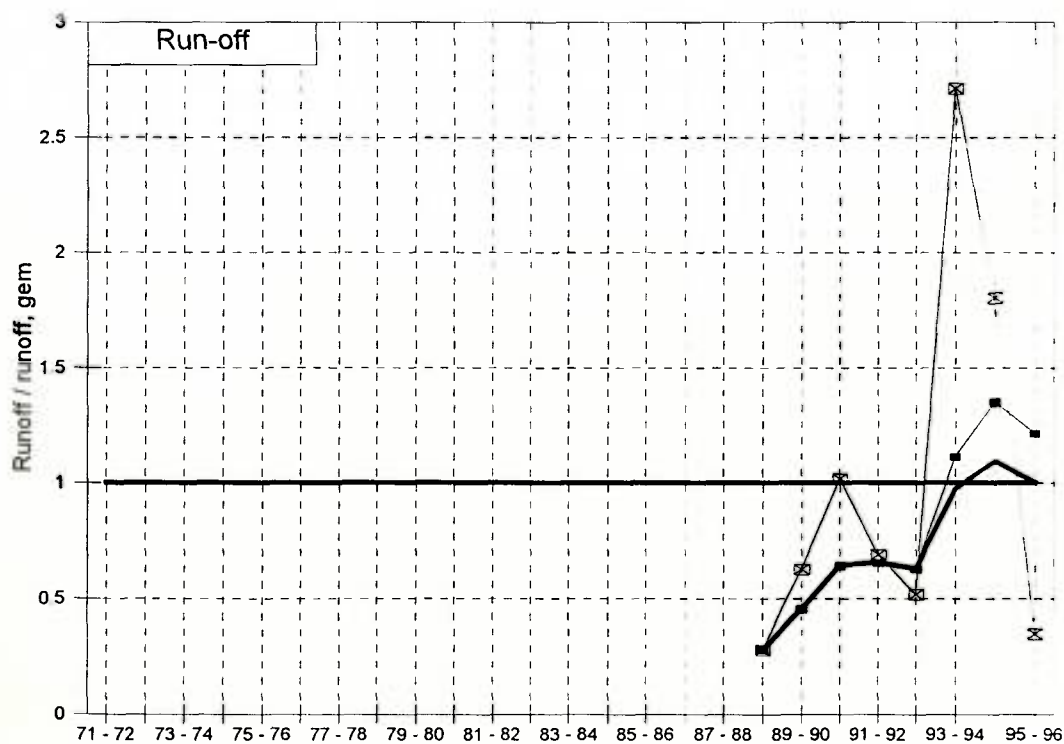
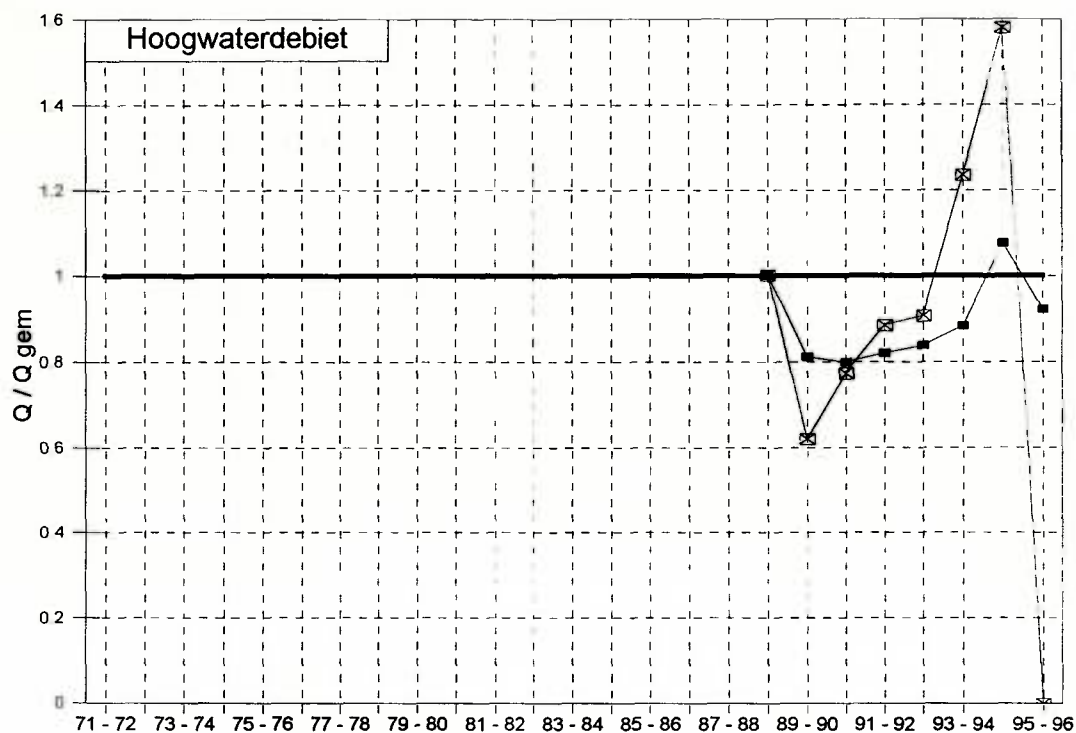


— doorlopend gemiddelde

—x— Jaarmaxima

—■— 5-jaargemiddelde

Station 054 : Kleine Nete / Herentals

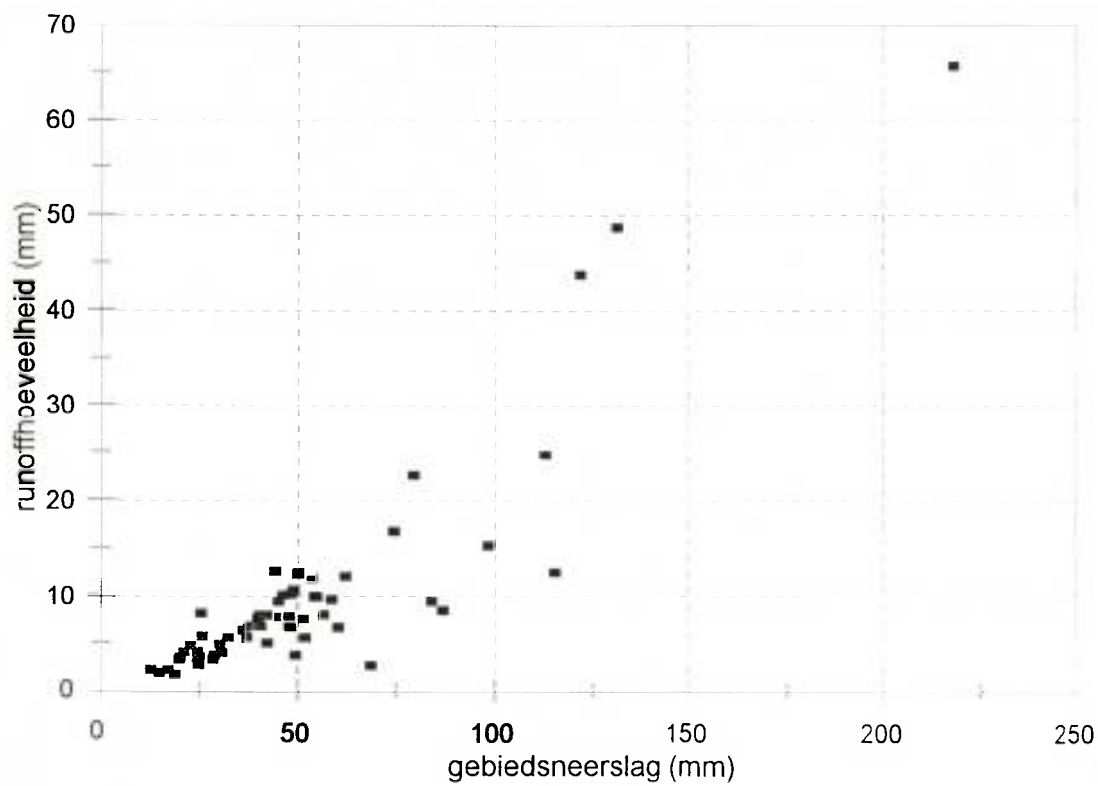
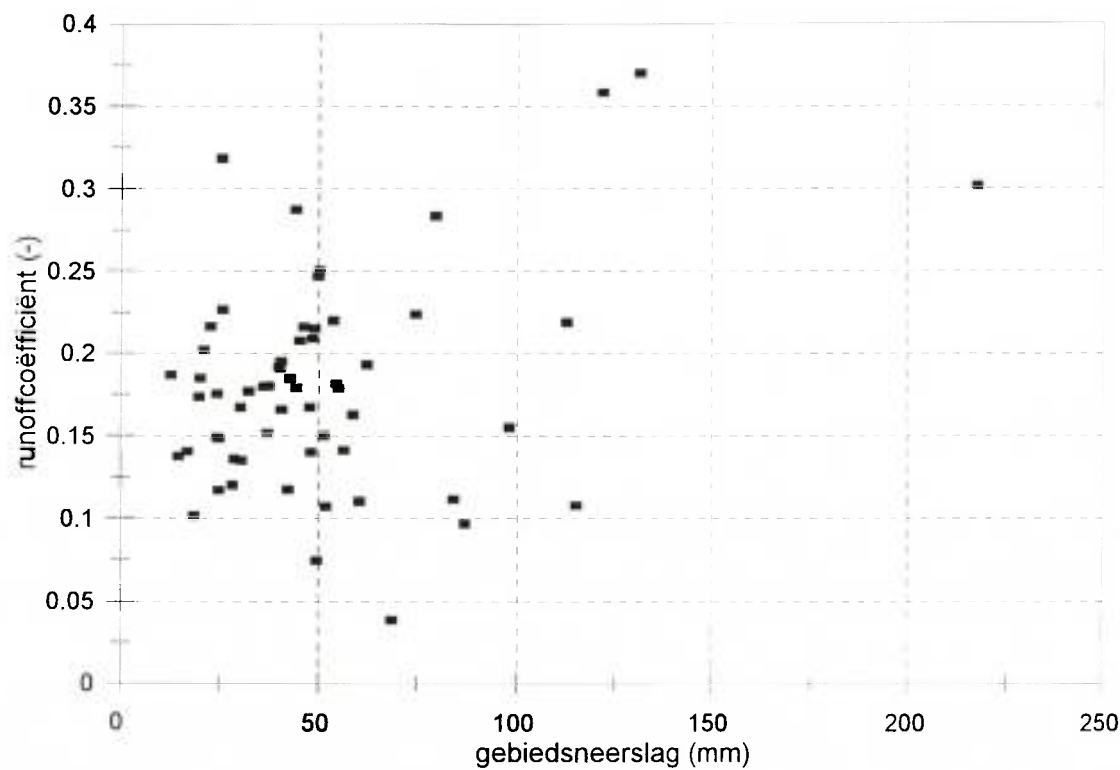


— doorlopend gemiddelde

—x— Jaarmaxima

—■— 5-jaargemiddelde

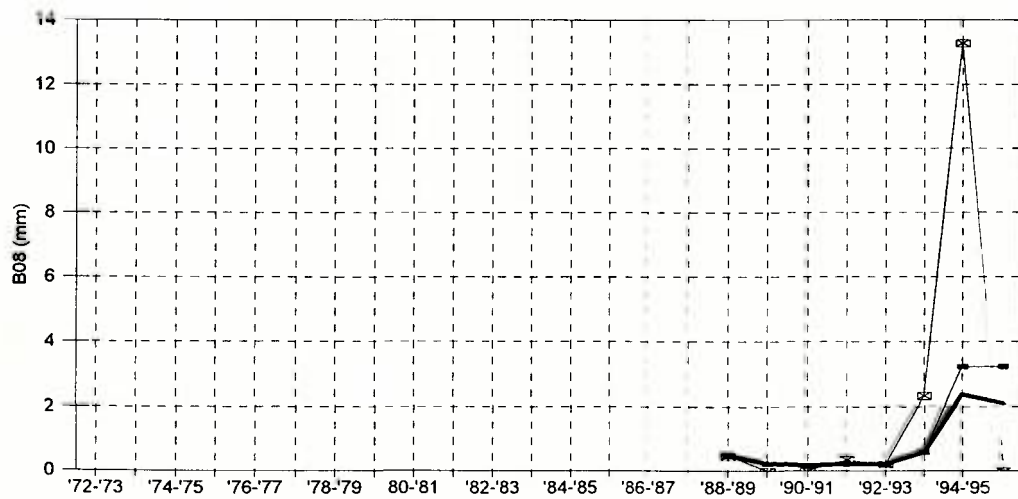
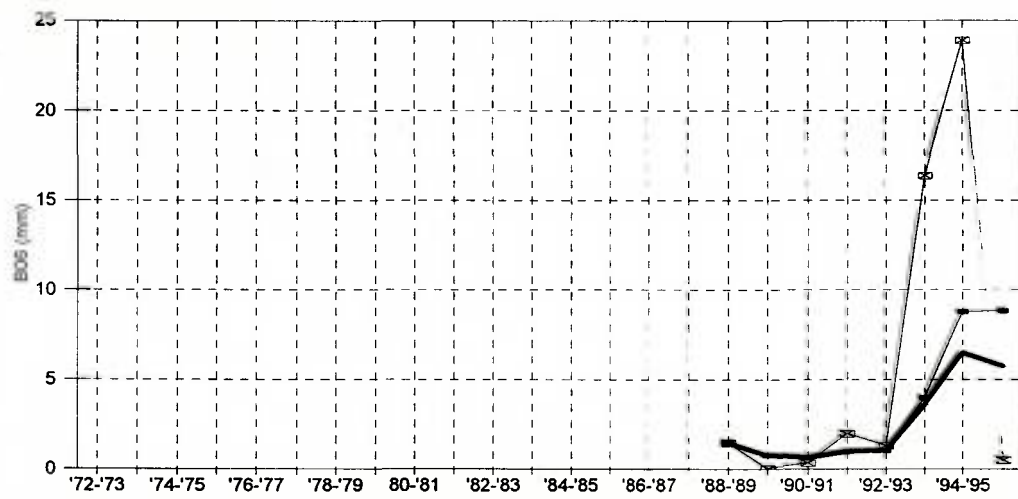
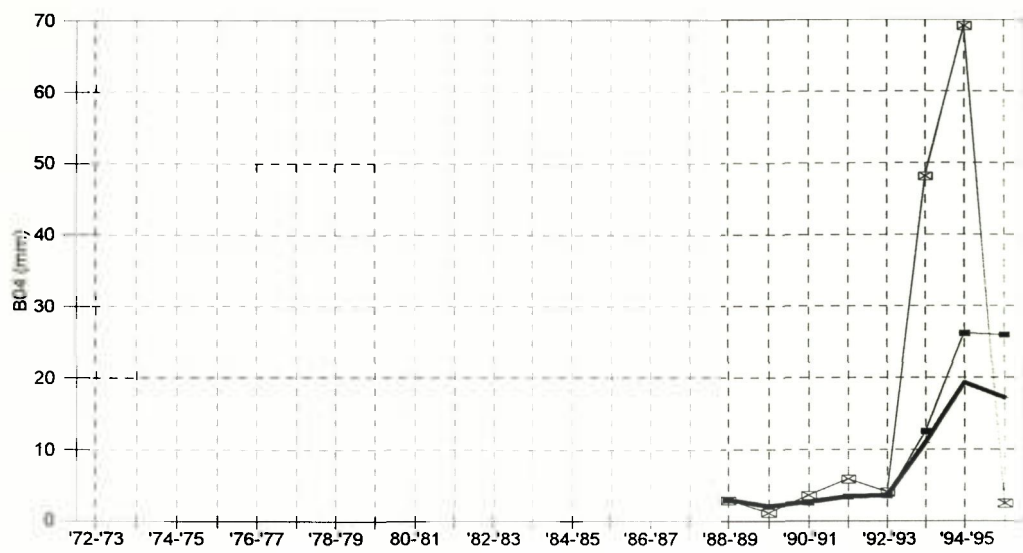
Station 054 : Kleine Neet / Herentals



Jaarmaxima van bergingen					
Station 054 : Kleine Nete / Herentals			Gemidd. jaarmax : 22.28 m³/s		
Waterjaar	piekdebiet			berging	
	(m³/s)	datum	(mm)	(uur)	datum
Bergingen boven 0,3 . Qgem					
'88 -'89	22 323	08/03/89	4 89	729	10/03/89
'89 -'90	13 521	01/03/90	6 32	761	04/03/90
'90 -'91	17 204	03/01/91	10 60	829	13/01/91
'91 -'92	19 486	22/12/91	9 94	765	28/12/91
'92 -'93	20 216	12/01/93	12 10	2254	30/01/93
'93 -'94	27 519	31/12/93	96 30	5551	12/04/94
'94 -'95	35 197	30/01/95	121 38	7398	04/04/95
'95 -'96	16 839	29/08/96	3 92	213	01/09/96
Bergingen boven 0,4 . Qgem					
'88 -'89	22 323	08/03/89	2 95	143	09/03/89
'89 -'90	13 383	14/02/90	1 13	176	16/02/90
'90 -'91	17 204	03/01/91	3 59	355	11/01/91
'91 -'92	19 486	22/12/91	5 87	332	25/12/91
'92 -'93	20 216	12/01/93	4 01	252	14/01/93
'93 -'94	27 519	31/12/93	48 13	3422	01/02/94
'94 -'95	35 197	30/01/95	69 12	3599	10/03/95
'95 -'96	16 839	29/08/96	2 42	127	31/08/96
Bergingen boven 0,5 . Qgem					
'88 -'89	22 323	08/03/89	2 12	86	09/03/89
'89 -'90	13 790	24/01/90	0 22	25	24/01/90
'90 -'91	17 204	03/01/91	0 78	100	04/01/91
'91 -'92	19 486	22/12/91	3 28	206	24/12/91
'92 -'93	20 216	12/01/93	2 31	127	13/01/93
'93 -'94	27 519	31/12/93	30 90	1604	07/01/94
'94 -'95	35 197	30/01/95	35 86	1870	27/02/95
'95 -'96	16 839	29/08/96	1 32	80	30/08/96
Bergingen boven 0,6 . Qgem					
'88 -'89	22 323	08/03/89	1 46	56	09/03/89
'89 -'90	13 790	24/01/90	0 02	6	24/01/90
'90 -'91	17 204	03/01/91	0 33	30	03/01/91
'91 -'92	19 486	22/12/91	1 97	95	23/12/91
'92 -'93	20 216	12/01/93	1 30	75	13/01/93
'93 -'94	27 519	31/12/93	16 35	897	07/01/94
'94 -'95	35 197	30/01/95	23 87	1208	03/02/95
'95 -'96	16 839	29/08/96	0 51	48	30/08/96
Bergingen boven 0,7 . Qgem					
'88 -'89	22 323	08/03/89	0 90	37	09/03/89
'89 -'90			0 00	0	
'90 -'91	17 204	03/01/91	0 07	11	03/01/91
'91 -'92	19 486	22/12/91	1 08	62	23/12/91
'92 -'93	20 216	12/01/93	0 59	34	13/01/93
'93 -'94	27 519	31/12/93	5 18	263	06/01/94
'94 -'95	35 197	30/01/95	17 49	647	02/02/95
'95 -'96	16 839	29/08/96	0 07	15	29/08/96

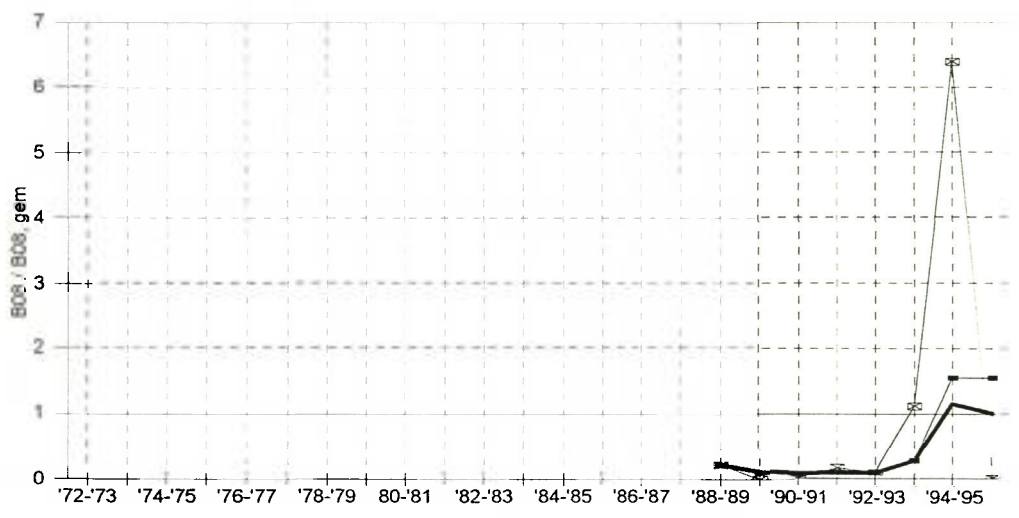
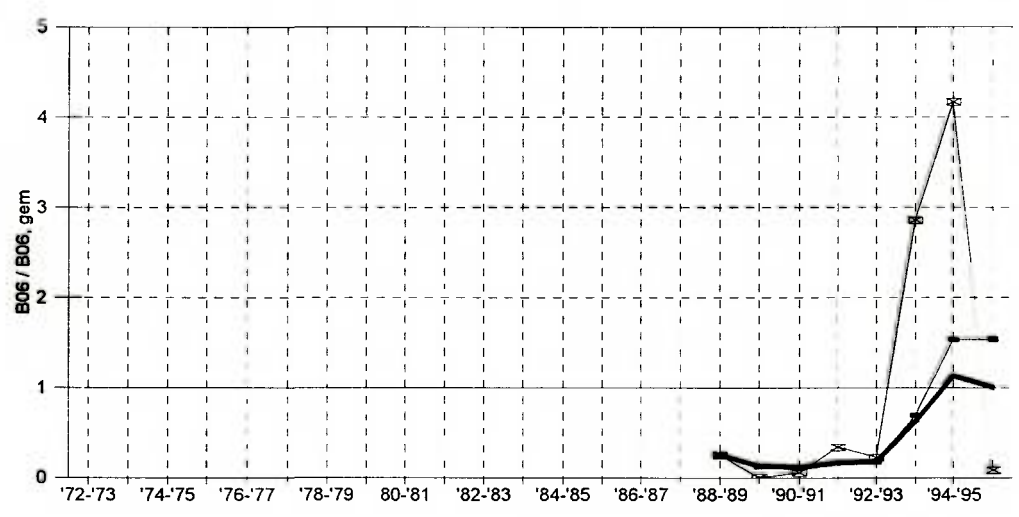
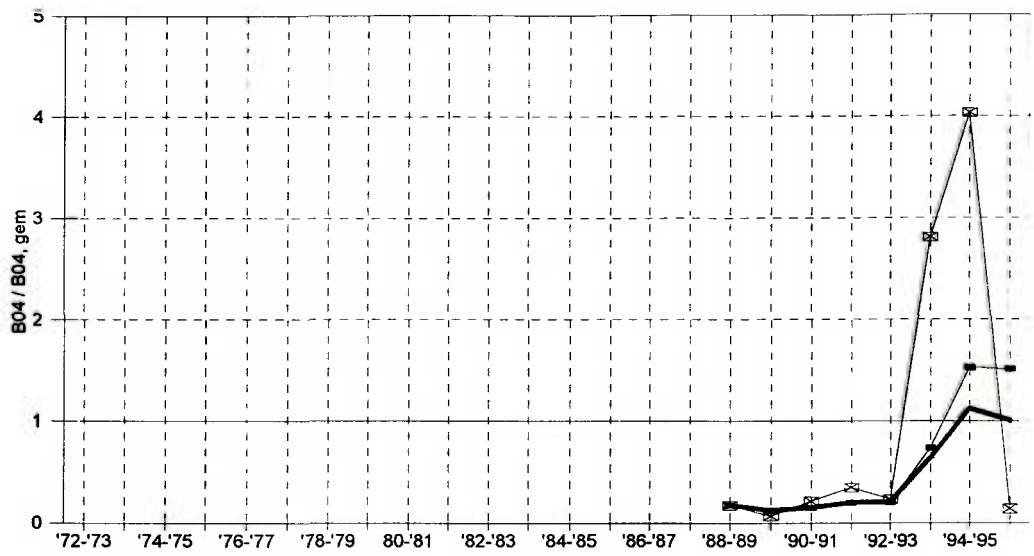
Jaarmaxima van bergingen					
Station 054 : Kleine Nete / Herentals			Gemidd. jaarmax. : 22.28 m³/s		
Waterjaar	piekdebiet (m³/s)	datum	(mm)	berging (uur)	datum
Bergingen boven 0,8 . Qgem					
'88 -'89	22.323	08/03/89	0.46	25	08/03/89
'89 -'90			0.00	0	
'90 -'91			0.00	0	
'91 -'92	19.486	22/12/91	0.35	38	22/12/91
'92 -'93	20.216	12/01/93	0.21	19	12/01/93
'93 -'94	27.519	31/12/93	2.34	192	04/01/94
'94 -'95	35.197	30/01/95	13.28	342	01/02/95
'95 -'96			0.00	0	

Station 054 : Kleine Nete / Herentals



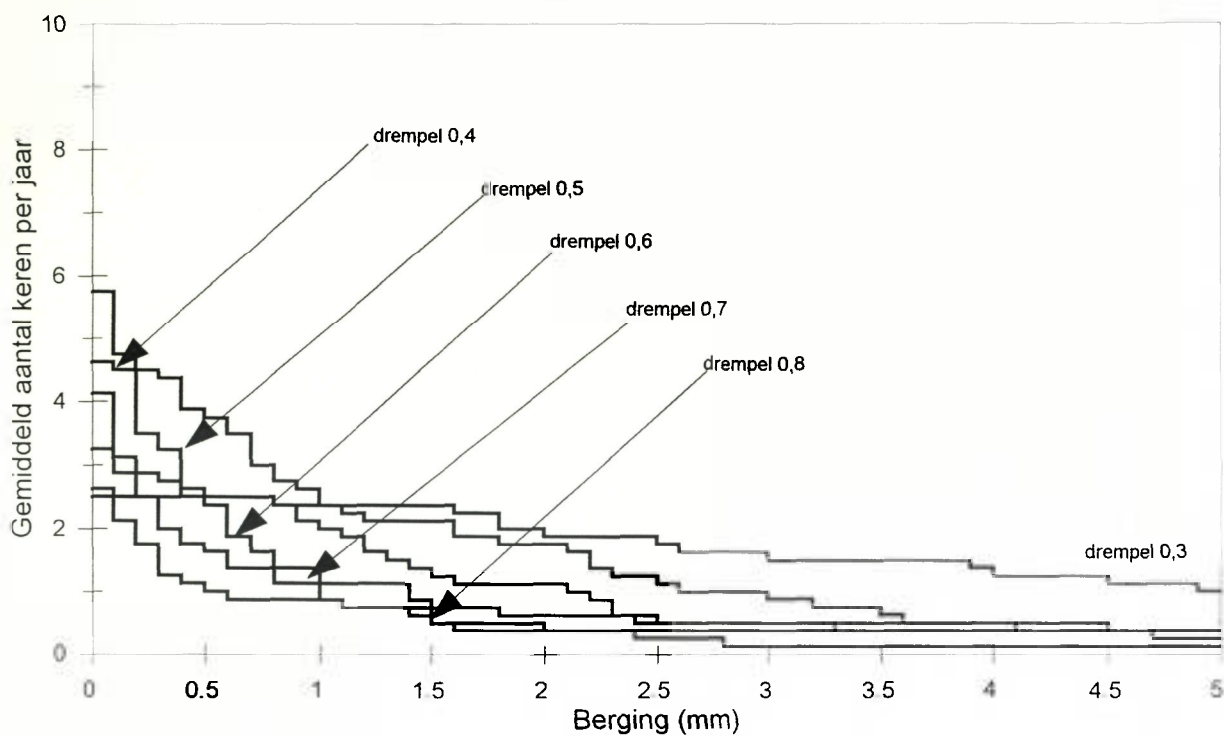
— doorlopend gemiddelde —○— Jaarmaxima —■— 5-jaargemiddelde

Station 054 : Kleine Nete / Herentals

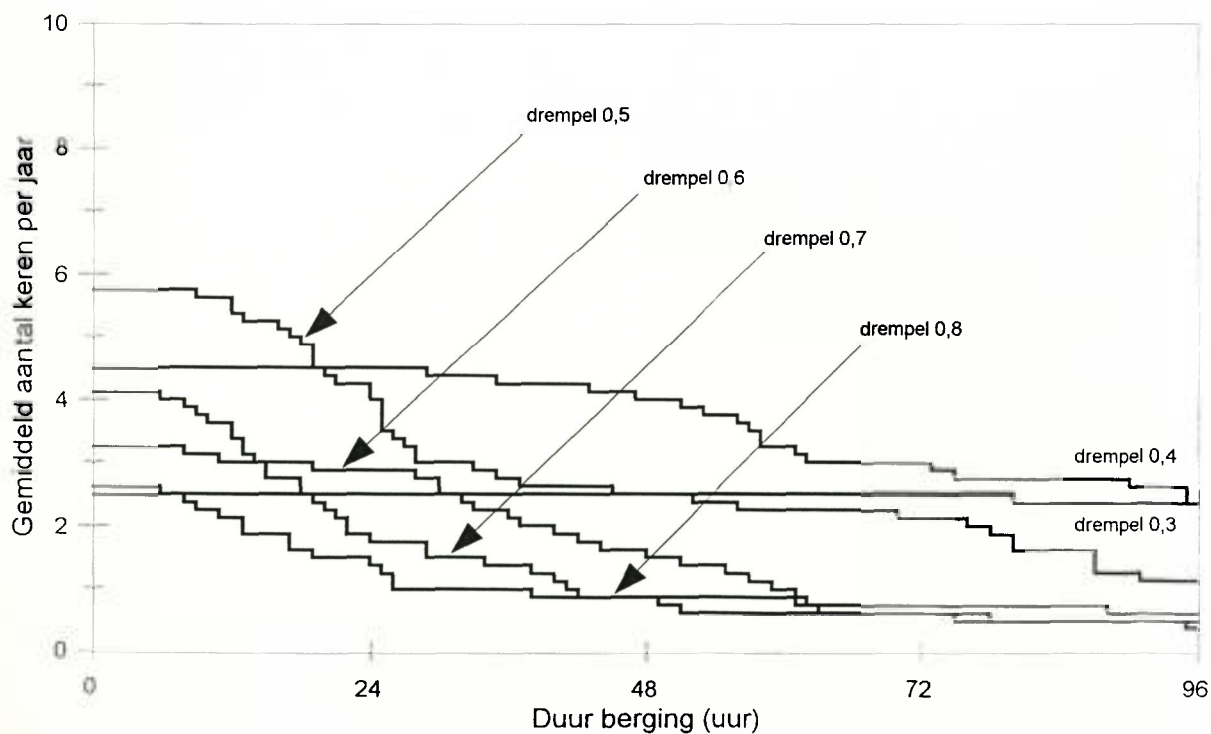


— doorlopend gemiddelde —x— Jaarmaxima —■— 5-jaargemiddelde

Station 054-Kleine Nete te Herentals



Station 054-Kleine Nete te Herentals

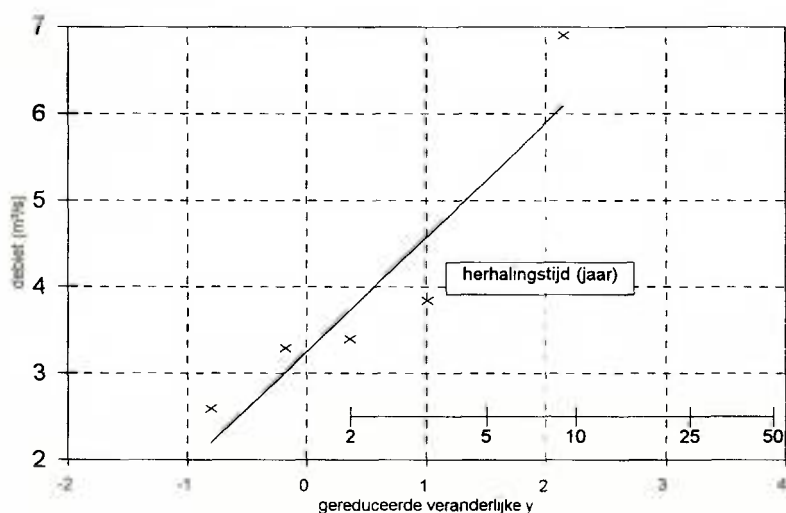


10. Station 058

**De Witte Nete
te Retie**

Station nr. 058 : Witte Nete te Retie

Nr.	Waterjaar	Datum	Hoogte (cm)	Debiet (m³/s)
1	'92 - '93	22/01/93	78	2.588
2	'95 - '96	13/08/96	85	3.285
3	'94 - '95	29/01/95	86	3.392
4	'93 - '94	30/12/93	90	3.834
5	'91 - '92	8/06/92	113	6.897



Herhalingstijd (jaar)	Debiet (m³/s)	Spec. afvoer (l/s.ha)
2	3.721	0.62
5	5.220	0.86
10	6.212	1.03
25	7.466	1.24
50	8.397	1.39

Station 058 : Witte Nete te Retie

Runoffhoeveelheden

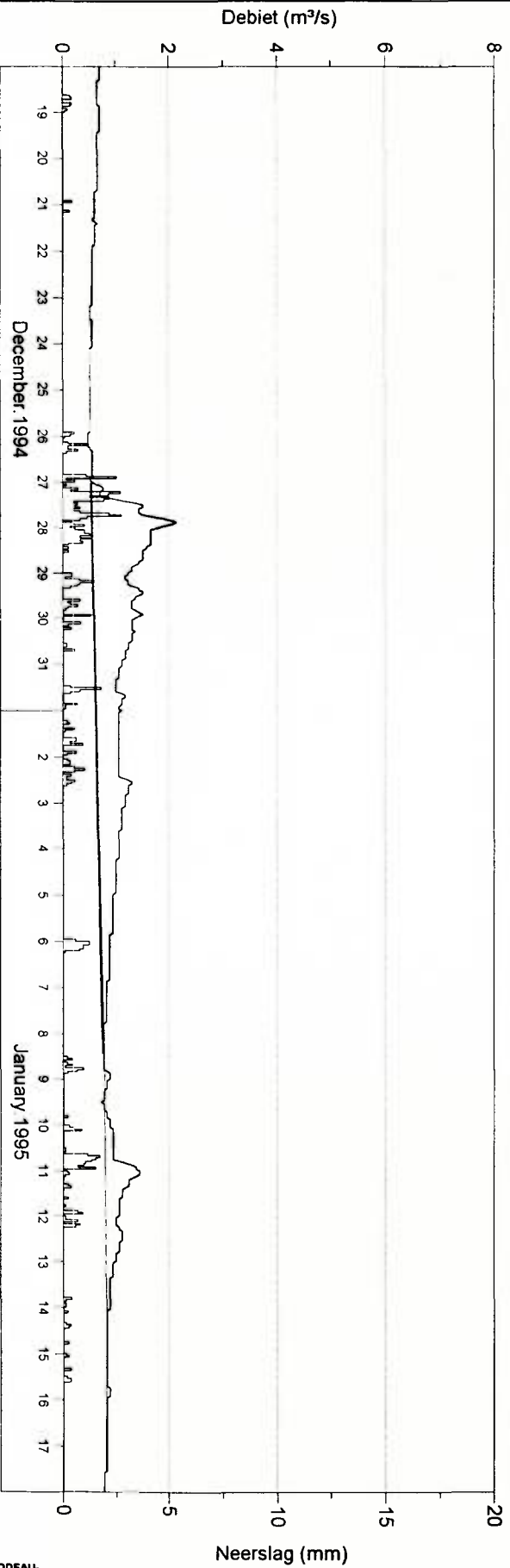
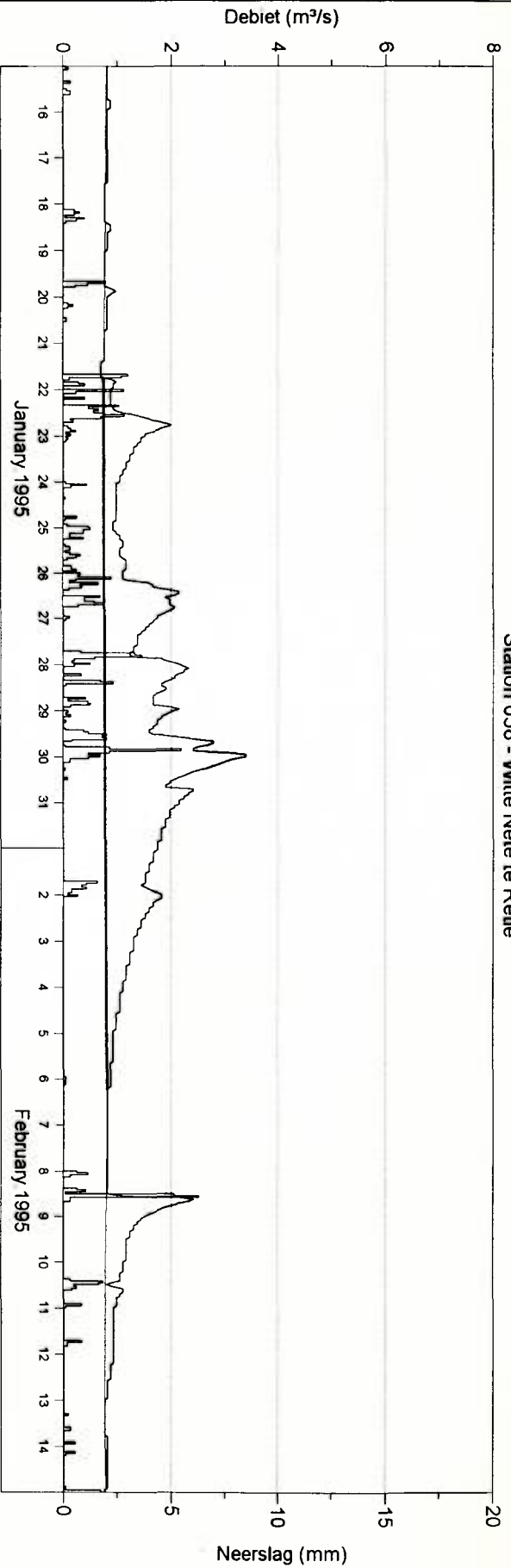
Stroomgebied = 6035 ha

Tijdreeks : 1991 - '96

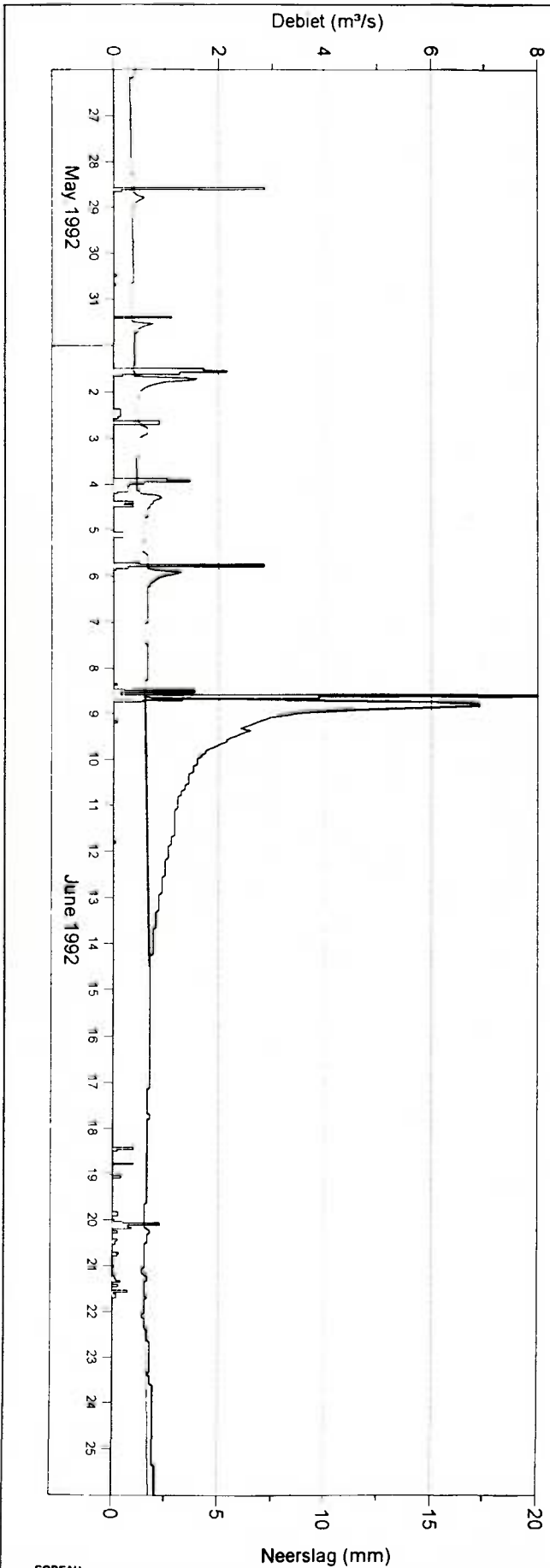
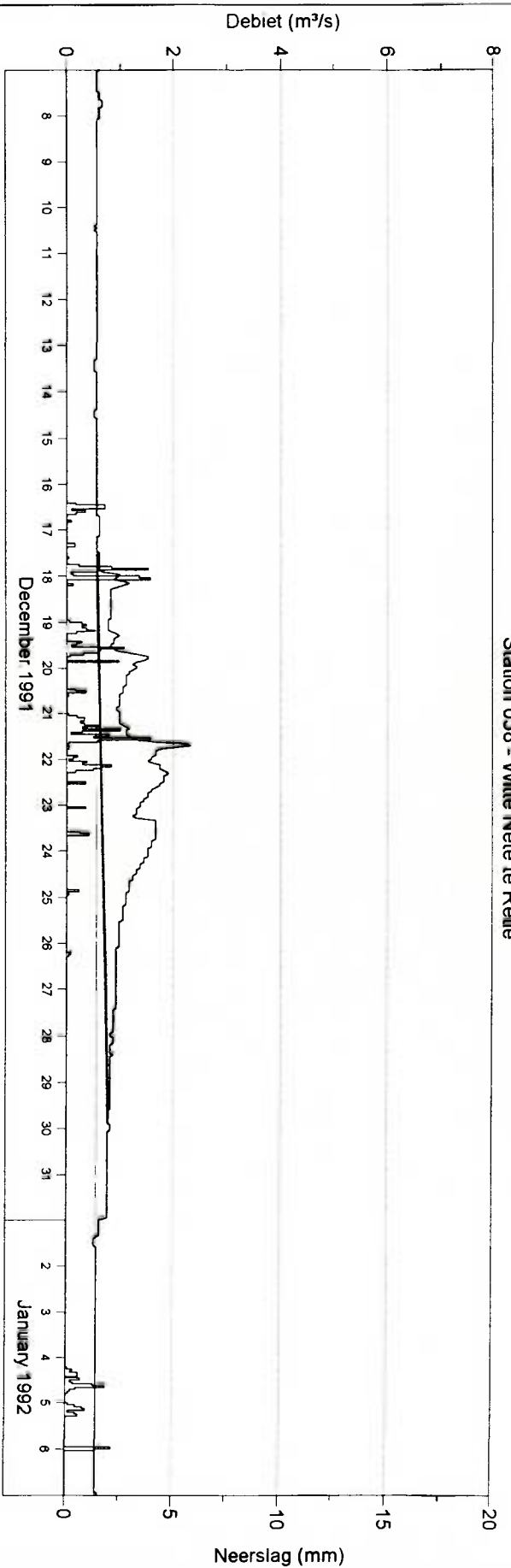
Nr	Was van (datum $Q_{\max}$)	$q_{\max}$ (l/s ha)	q_{begin} (l/s ha)	q_{eind} (l/s ha)	Neerslag som (mm)	Neerslag duur (uur)	Concentratie tijd (uur)	Runoff (mm)	Runoff- Coëff. (-)	Runoff duur (uur)
1	29/01/95	0.56	0.12	0.14	108.9	273	64	15.8	0.15	373
2	27/12/94	0.35	0.09	0.13	70.9	272	38	8.0	0.11	285
3	21/12/91	0.38	0.09	0.13	70.3	237	67	7.5	0.11	292
4	08/06/92	1.14	0.10	0.12	72.1	21	31	6.9	0.10	136
5	03/12/96	0.40	0.13	0.14	80.6	321	53	6.7	0.08	363
6	30/12/93	0.64	0.18	0.19	65.6	201	25	6.3	0.10	199
7	21/12/93	0.35	0.13	0.17	64.4	142	25	5.9	0.09	193
8	29/08/96	0.51	0.06	0.07	90.5	103	39	5.5	0.06	217
9	13/11/91	0.41	0.09	0.13	67.6	221	47	4.8	0.07	247
10	13/12/93	0.34	0.09	0.13	51.6	150	32	4.3	0.08	179
11	13/08/96	0.54	0.05	0.07	65.2	66	25	3.1	0.05	140
12	12/01/93	0.35	0.14	0.15	28.5	110	32	2.8	0.10	137
13	28/05/95	0.48	0.09	0.09	32.0	55	26	1.9	0.06	100
14	08/02/95	0.40	0.14	0.14	22.2	72	13	1.9	0.08	98
15	22/01/93	0.43	0.15	0.15	25.1	57	19	1.8	0.07	74
16	09/12/94	0.37	0.12	0.13	28.3	78	37	1.8	0.06	122
17	17/11/92	0.35	0.09	0.12	29.5	78	24	1.7	0.06	94
18	04/06/94	0.41	0.09	0.09	34.3	48	24	1.3	0.04	81
19	04/07/92	0.35	0.15	0.15	20.8	60	19	1.0	0.05	104

Uurwaarden van neerslag, debiet en basisafvoer

Station 058 - Witte Nete te Retie

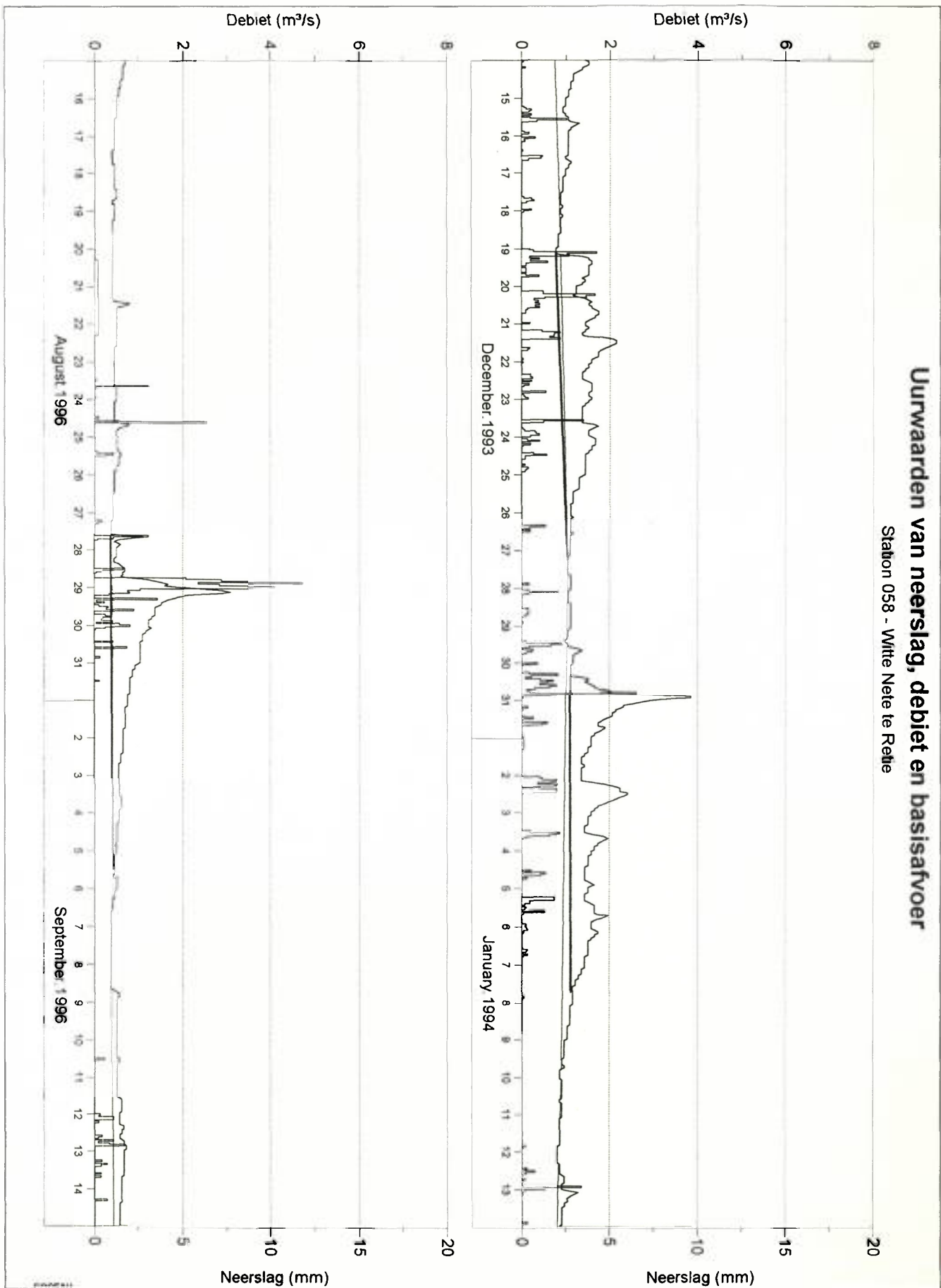


Urwaarden van neerslag, debiet en basisafvoer
Station 058 - Witte Nete te Relbe

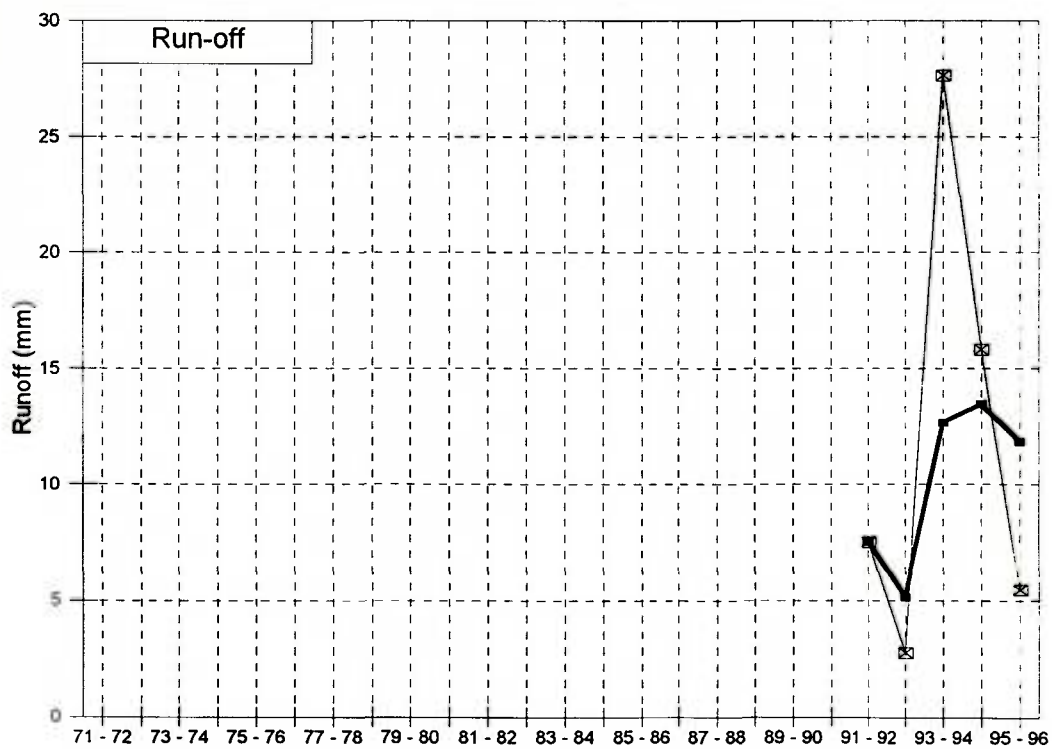
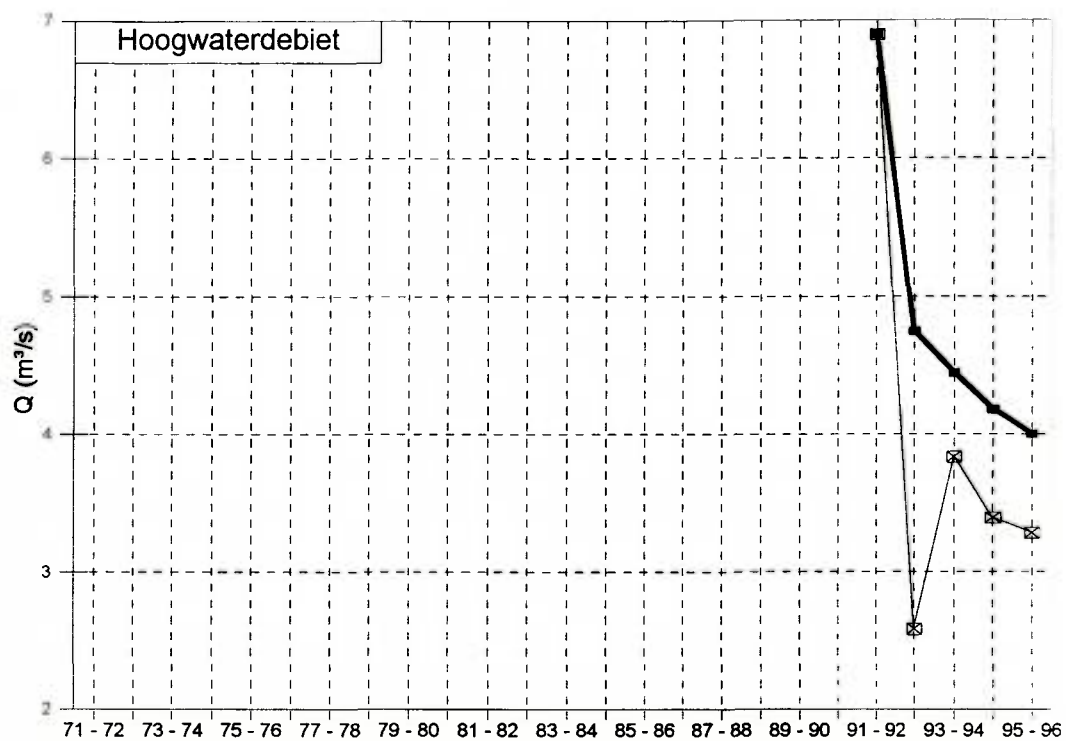


Uurwaarden van neerslag, debiet en basisafvoer

Station 058 - Witte Nete te Retje

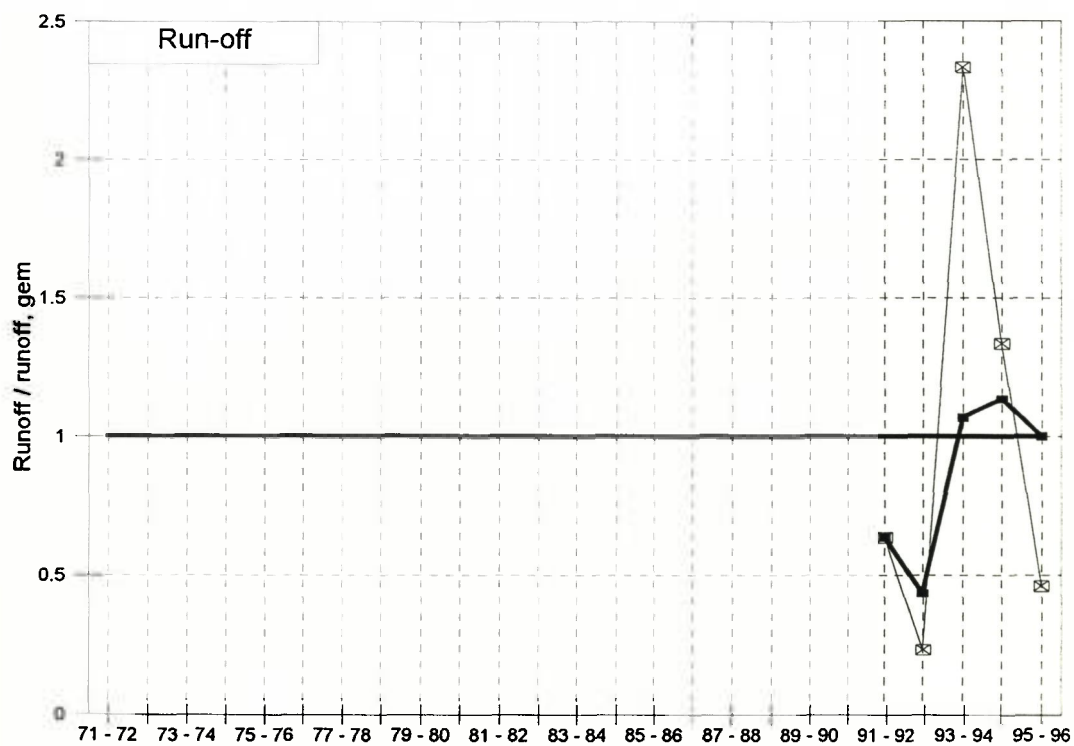
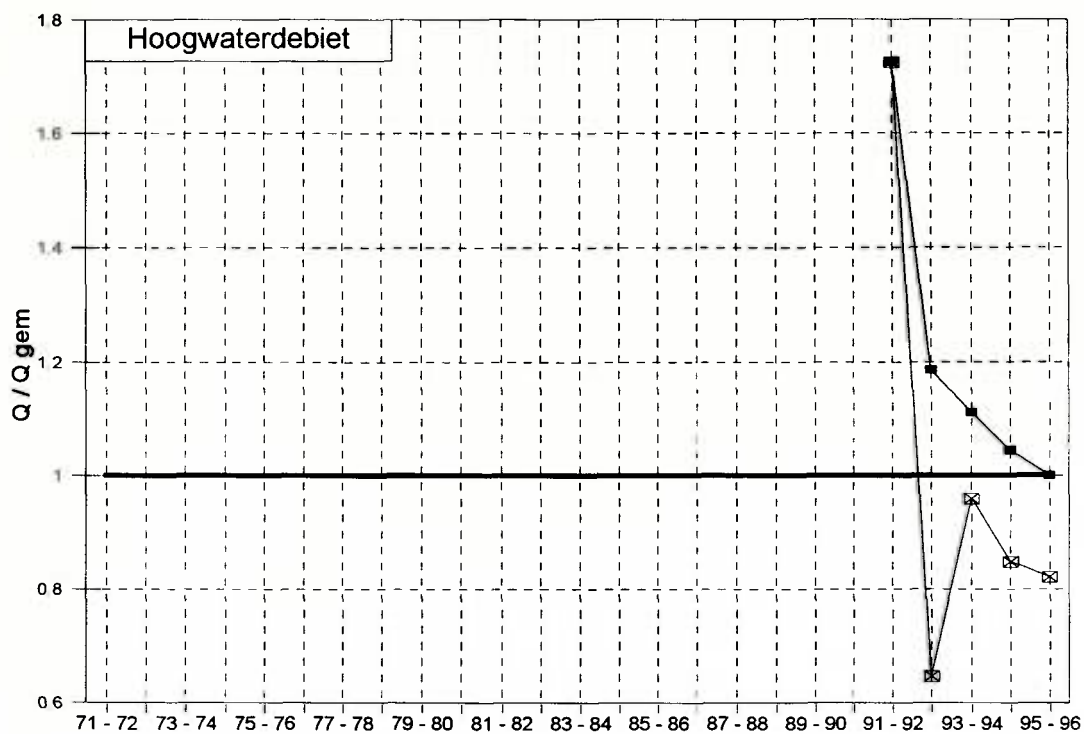


Station 058 : Witte Nete / Retie



— doorlopend gemiddelde —x— Jaarmaxima — 5-jaargemiddelde

Station 058 : Witte Nete / Retie

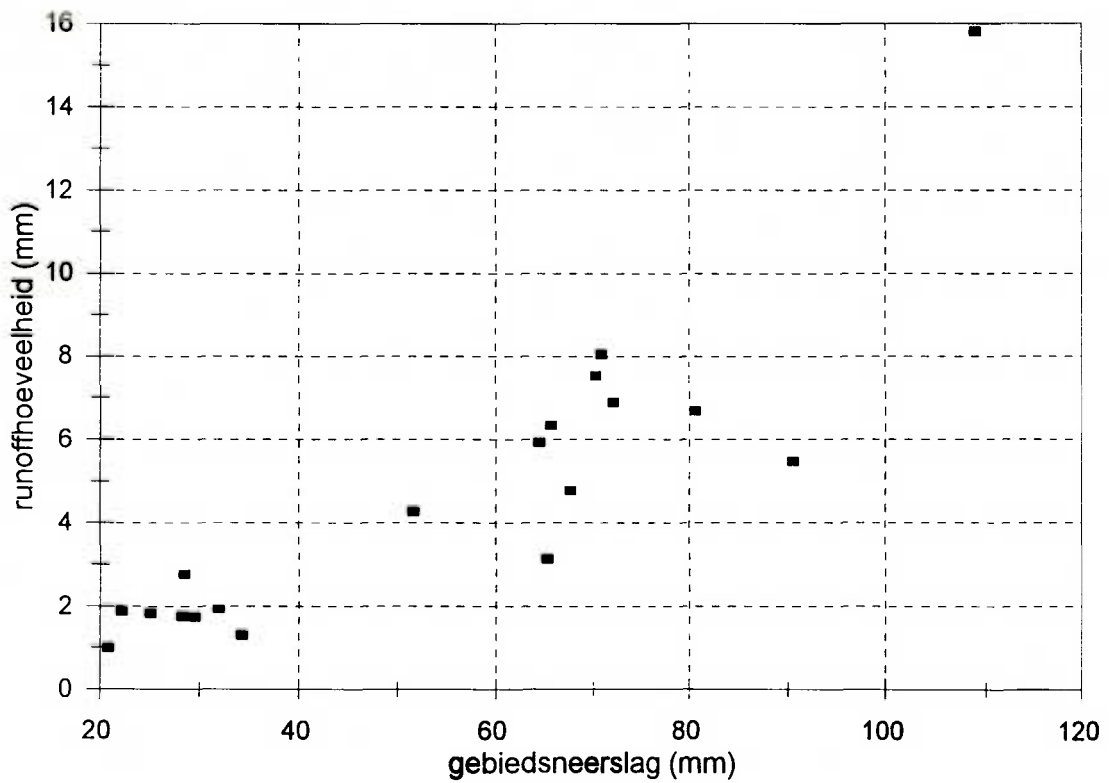
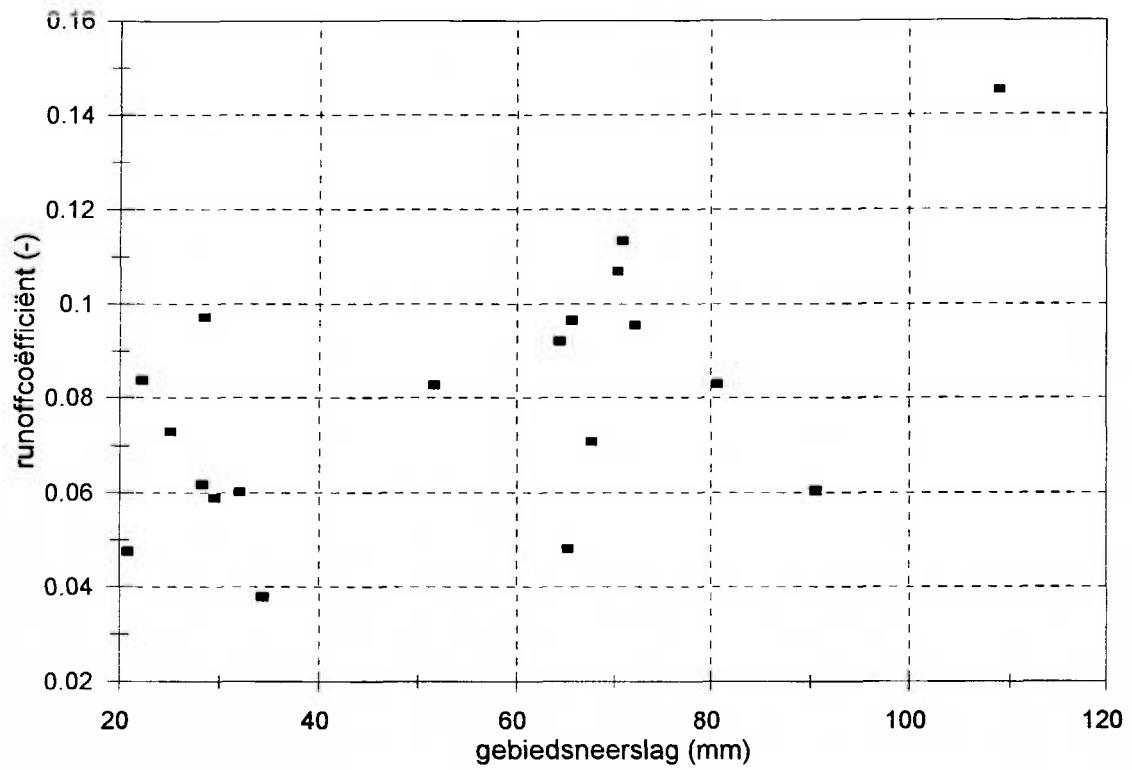


— doorlopend gemiddelde

—x— Jaarmaxima

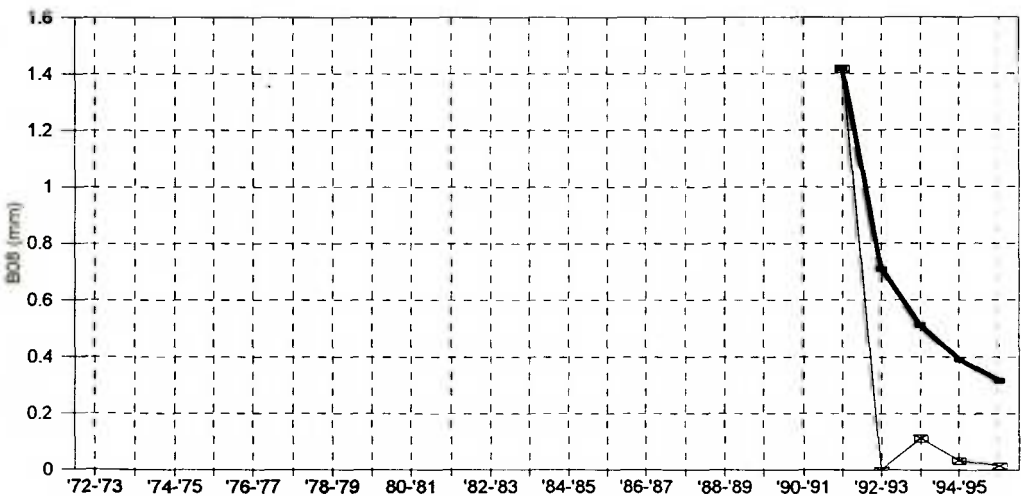
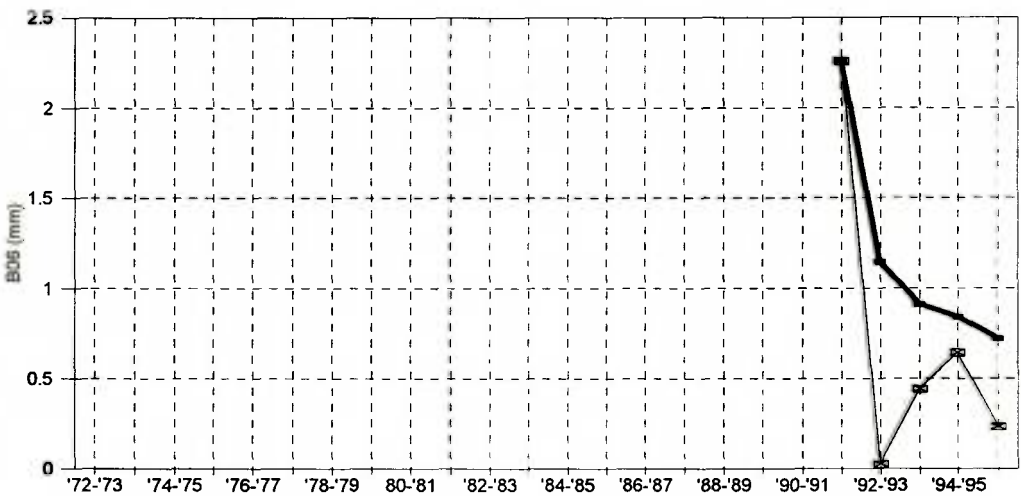
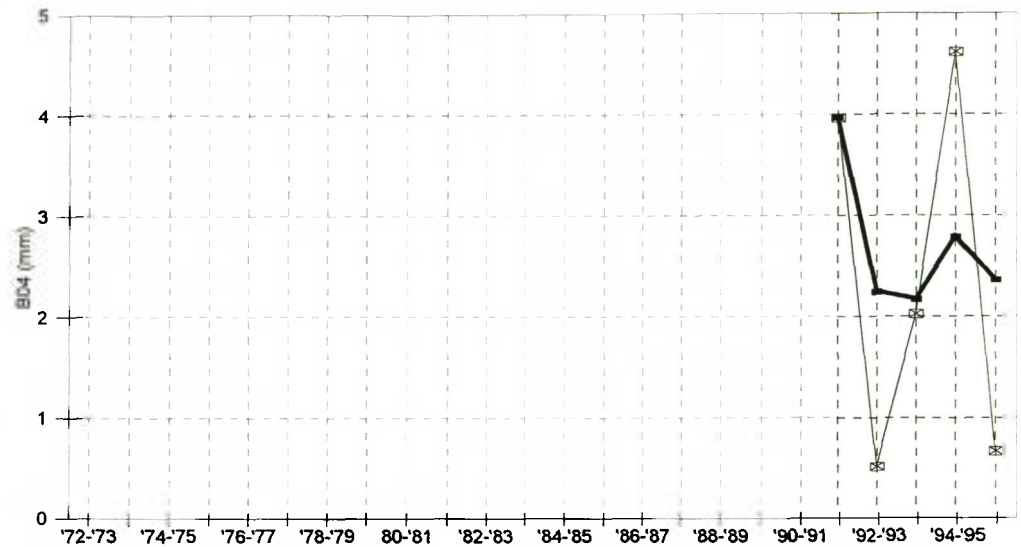
—■— 5-jaargemiddelde

Station 058 : Kleine Neet / Retie



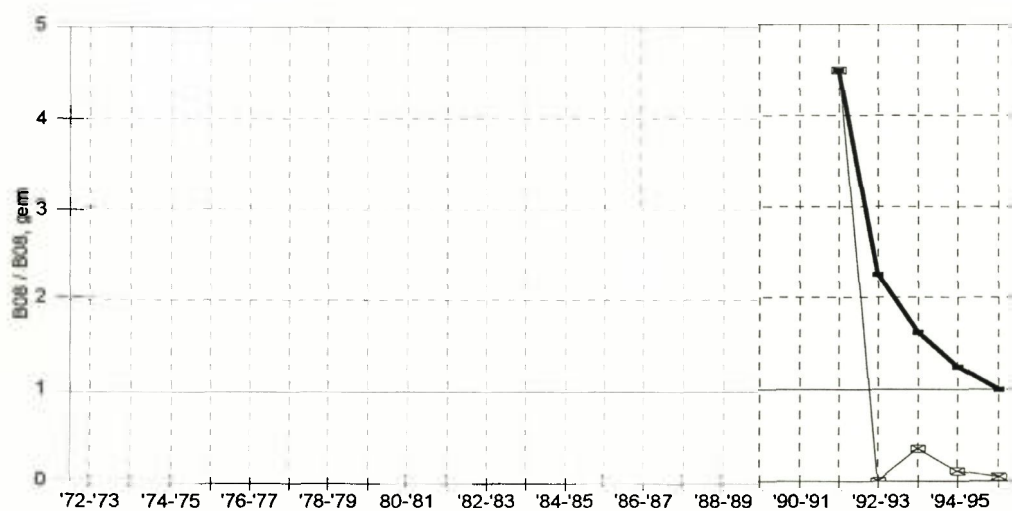
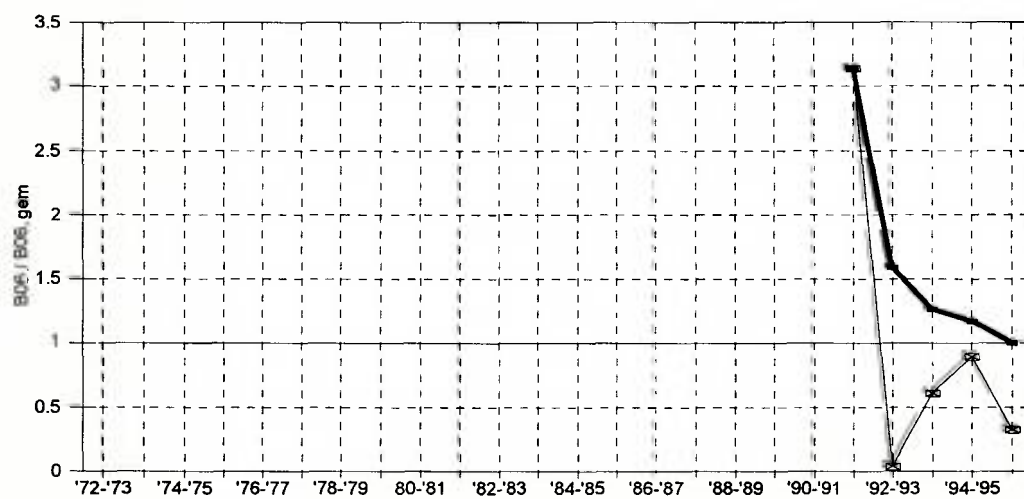
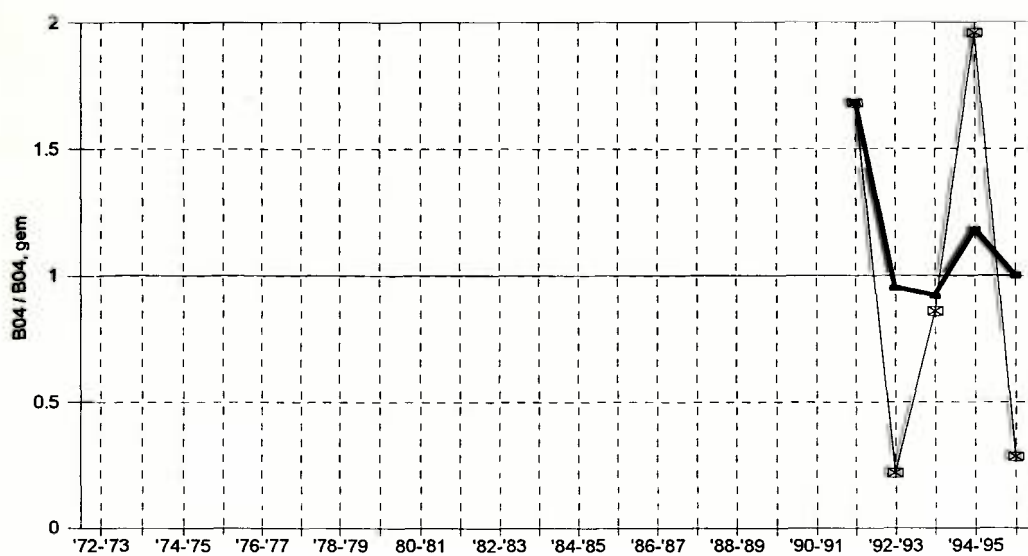
Jaarmaxima van bergingen					
Station 058 : Witte Nete / Retie			Gemidd.jaarmax. : 3.999 m³/s		
Waterjaar	piekdebiet		berging		
	(m³/s)	datum	(mm)	(uur)	datum
Bergingen boven 0,3 Qgem					
'91 -'92	6 897	08/06/92	5 53	221	11/06/92
'92 -'93	2 139	12/01/93	1 38	143	13/01/93
'93 -'94	3 834	30/12/93	11 44	937	07/01/94
'94 -'95	3 392	30/01/95	11 08	962	03/02/95
'95 -'96	3 078	29/08/96	1 22	81	30/08/96
Bergingen boven 0,4 Qgem					
'91 -'92	6 897	08/06/92	3 97	121	09/06/92
'92 -'93	2 588	22/01/93	0 51	31	23/01/93
'93 -'94	3 834	30/12/93	2 03	223	04/01/94
'94 -'95	3 392	30/01/95	4 62	270	02/02/95
'95 -'96	3 285	13/08/96	0 67	19	13/08/96
Bergingen boven 0,5 Qgem					
'91 -'92	6 897	08/06/92	3 01	76	09/06/92
'92 -'93	2 588	22/01/93	0 18	12	22/01/93
'93 -'94	3 834	30/12/93	0 81	41	31/12/93
'94 -'95	3 392	30/01/95	1 56	94	31/01/95
'95 -'96	3 285	13/08/96	0 44	10	13/08/96
Bergingen boven 0,6 Qgem					
'91 -'92	6 897	08/06/92	2 26	50	09/06/92
'92 -'93	2 588	22/01/93	0 03	3	22/01/93
'93 -'94	3 834	30/12/93	0 44	19	31/12/93
'94 -'95	3 392	30/01/95	0 64	41	30/01/95
'95 -'96	3 285	13/08/96	0 23	6	13/08/96
Bergingen boven 0,7 Qgem					
'91 -'92	6 897	08/06/92	1 76	36	09/06/92
'92 -'93			0 00	0	
'93 -'94	3 834	30/12/93	0 23	9	31/12/93
'94 -'95	3 392	30/01/95	0 22	12	30/01/95
'95 -'96	3 285	13/08/96	0 10	3	13/08/96
Bergingen boven 0,8 Qgem					
'91 -'92	6 897	08/06/92	1 42	26	09/06/92
'92 -'93			0 00	0	
'93 -'94	3 834	30/12/93	0 11	4	30/12/93
'94 -'95	3 392	30/01/95	0 03	4	30/01/95
'95 -'96	3 285	13/08/96	0 02	1	13/08/96

Station 058 : Witte Nete / Retie



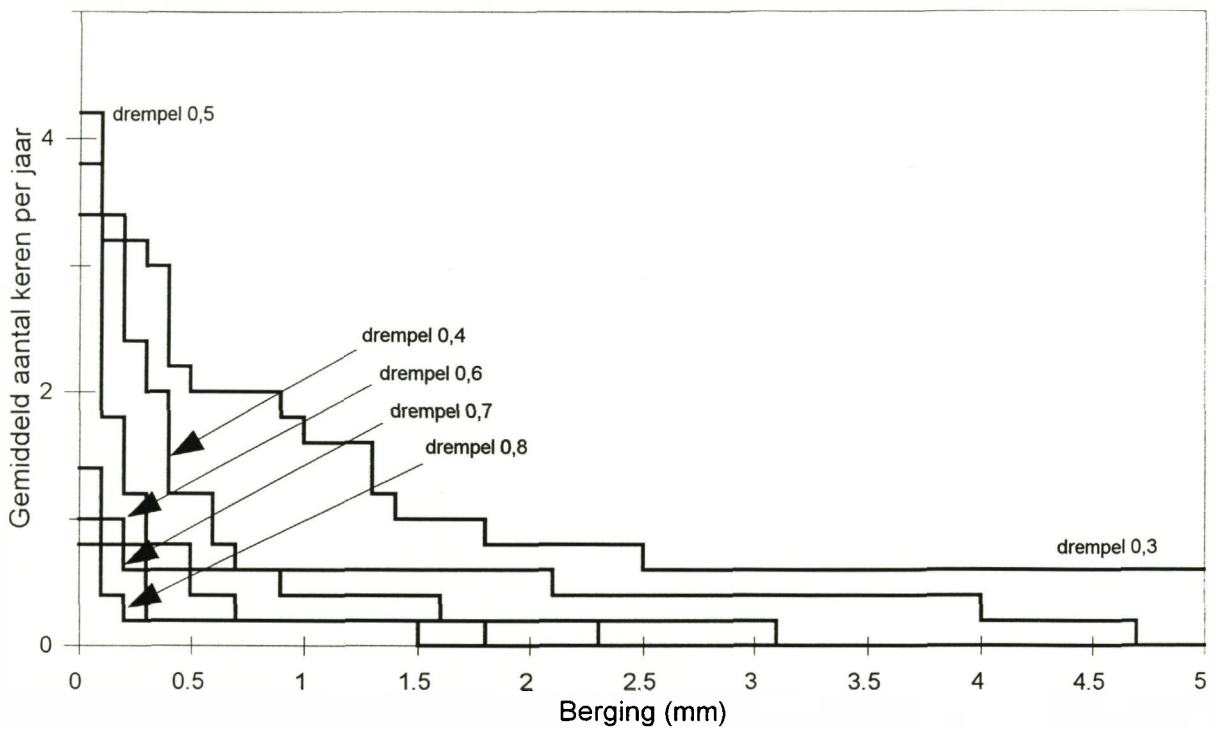
— doorlopend gemiddelde —■— Jaarmaxima —■— 5-jaargemiddelde

Station 058 : Witte Nete / Retie

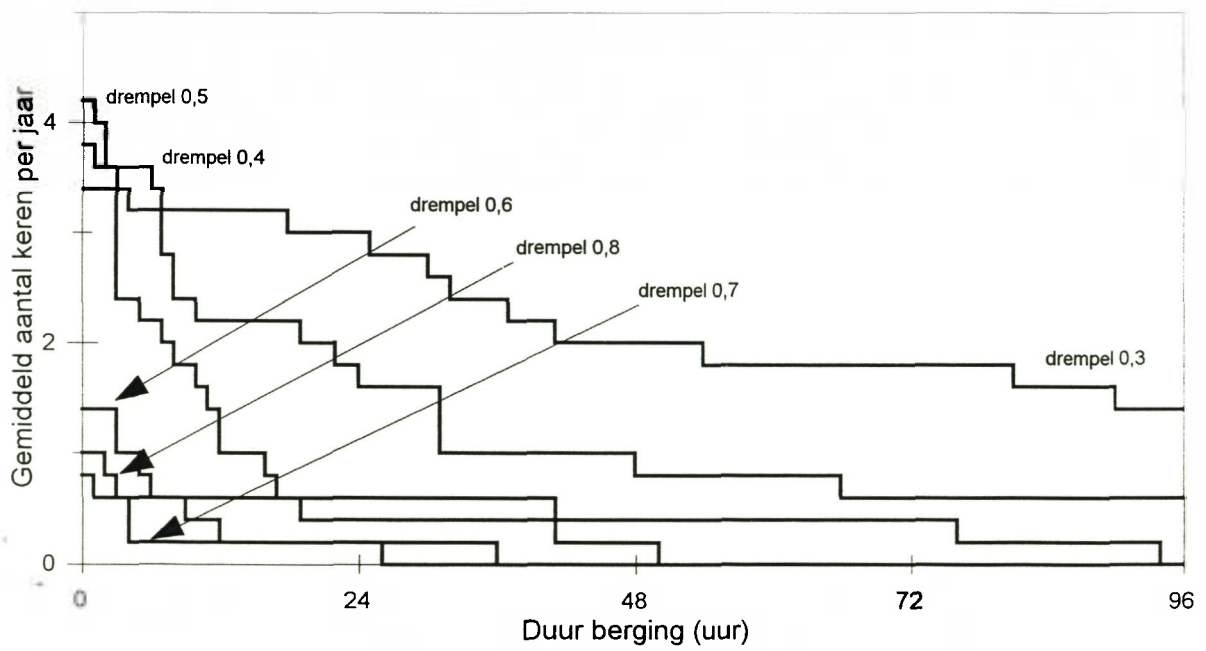


— doorlopend gemiddelde —□— Jaarmaxima —■— 5-jaargemiddelde

Station 058 - Witte Nete te Retie



Station 058 - Witte Nete te Retie

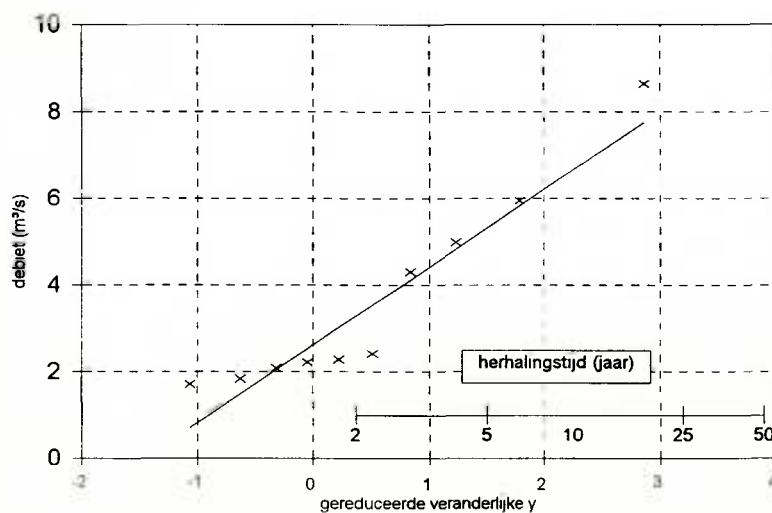


11. Station 062

**De Molenbeek
te Pulle**

Station nr. 062 : Molenbeek te Pulle

Nr.	Waterjaar	Datum	Hoogte (cm)	Debiet (m³/s)
1	'95 - '96	23/12/95	96	1 712
2	'89 - '90	1/03/90	100	1 832
3	'90 - '91	10/01/91	108	2 082
4	'88 - '89	8/03/89	112	2 212
5	'91 - '92	23/12/91	114	2 278
6	'92 - '93	13/01/93	118	2 412
7	'86 - '87	3/01/87	129	4 304
8	'87 - '88	27/01/88	132	4 981
9	'93 - '94	6/01/94	136	5 943
10	'94 - '95	30/01/95	146	8 642



Herhalingstijd (jaar)	Debiet (m³/s)	Spec. afvoer (l/s.ha)
2	3.261	0.43
5	5.297	0.71
10	6.645	0.88
25	8.348	1.11
50	9.612	1.28

Station 062 : Molenbeek te Pulle

Runoffhoeveelheden

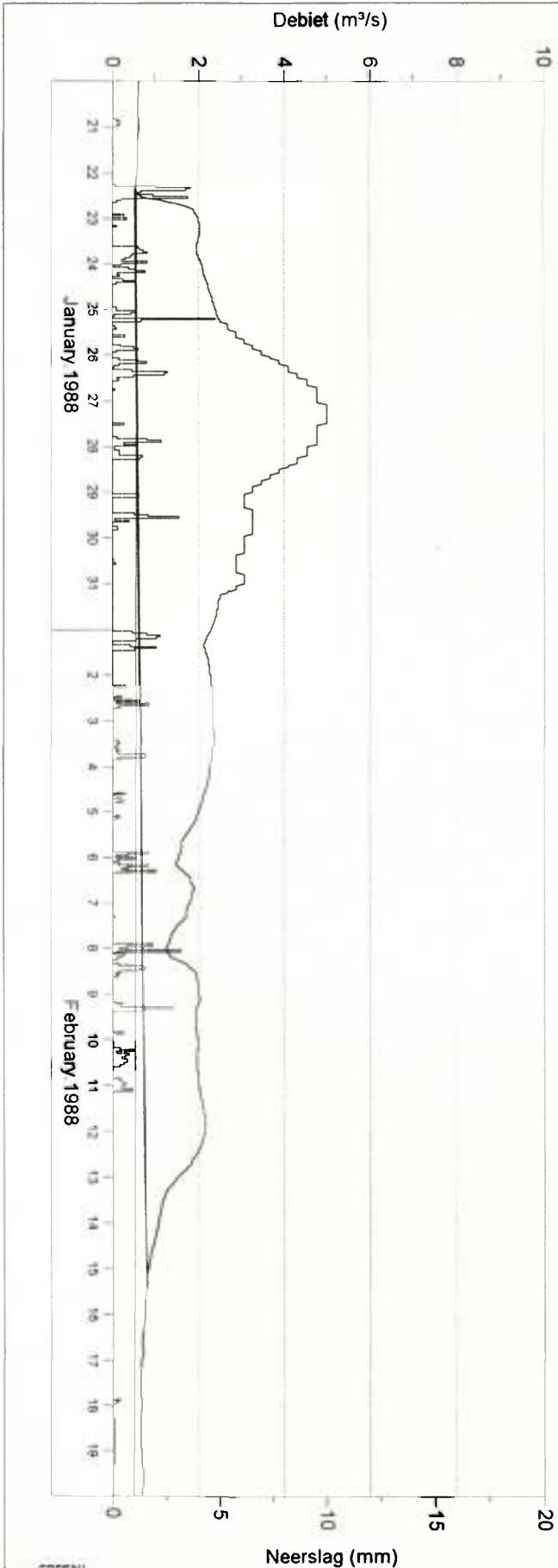
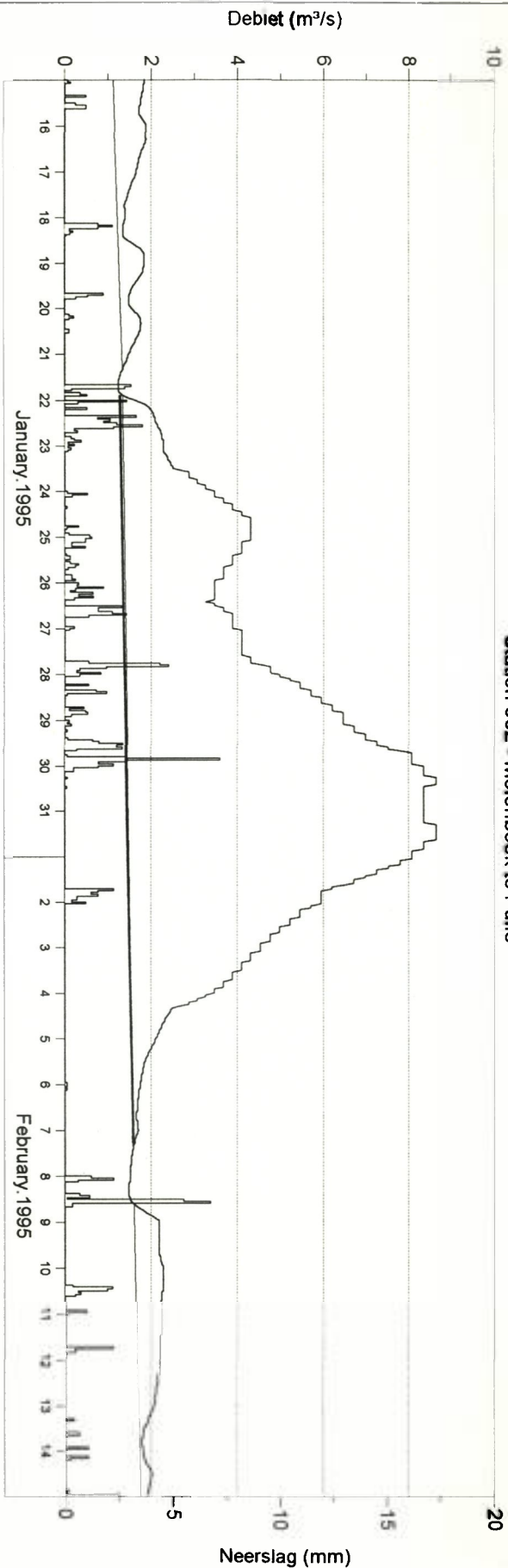
Stroomgebied = 7512 ha

Tijdreeks : 1986 - '96

Nr.	Was van (datum Q _{max})	q _{max} (l/s ha)	q _{begin} (l/s ha)	q _{eind} (l/s ha)	Neerslag som (mm)	Neerslag duur (uur)	Concentratie tijd (uur)	Runoff (mm)	Runoff- Coëff (-)	Runoff duur (uur)
1	30/01/95	1.15	0.17	0.21	128.8	273	73	57.5	0.45	397
2	27/01/88	0.66	0.07	0.10	139.5	511	36	46.0	0.33	580
3	22/12/93	0.49	0.08	0.20	156.6	460	55	29.5	0.19	500
4	03/01/87	0.57	0.07	0.09	90.9	342	54	24.9	0.27	403
5	30/12/94	0.66	0.07	0.11	91.0	297	54	23.6	0.26	307
6	06/01/94	0.79	0.19	0.21	82.6	222	55	22.2	0.27	246
7	25/03/87	0.46	0.08	0.09	57.2	232	40	15.2	0.27	307
8	26/03/88	0.32	0.12	0.12	56.7	302	41	14.6	0.26	352
9	20/03/94	0.29	0.08	0.11	67.0	319	39	13.6	0.20	358
10	24/11/87	0.29	0.07	0.07	58.3	189	55	12.9	0.22	337
11	11/06/95	0.27	0.07	0.08	70.1	216	53	12.8	0.18	396
12	11/01/88	0.27	0.06	0.12	63.3	254	41	12.3	0.19	322
13	06/04/94	0.31	0.12	0.14	77.0	232	51	11.3	0.15	291
14	13/01/93	0.32	0.07	0.14	49.4	235	55	10.6	0.21	286
15	24/01/94	0.29	0.12	0.16	59.6	253	36	9.7	0.16	280
16	06/06/94	0.29	0.04	0.07	74.6	221	51	9.6	0.13	268
17	16/03/88	0.33	0.11	0.12	39.0	141	43	9.4	0.24	185
18	12/01/95	0.36	0.11	0.18	30.9	171	33	9.0	0.29	229
19	01/03/88	0.29	0.07	0.11	43.1	195	39	8.8	0.20	254
20	04/09/92	0.25	0.09	0.10	86.1	255	55	8.8	0.10	320
21	04/03/87	0.31	0.06	0.09	41.0	97	43	8.5	0.21	232
22	21/09/94	0.24	0.04	0.08	94.4	161	47	7.7	0.08	242
23	01/03/94	0.26	0.07	0.11	39.3	267	43	7.7	0.20	305
24	29/03/95	0.29	0.11	0.11	38.1	194	60	7.6	0.20	246
25	23/12/91	0.30	0.04	0.11	82.6	205	48	7.5	0.09	222
26	04/12/96	0.27	0.06	0.09	61.2	176	39	6.6	0.11	205
27	13/11/91	0.25	0.02	0.10	132.7	278	56	6.4	0.05	312
28	19/11/92	0.26	0.09	0.15	65.7	244	50	6.0	0.09	255
29	08/06/87	0.25	0.03	0.08	44.4	75	37	5.9	0.13	134
30	23/01/93	0.29	0.13	0.14	38.1	233	38	5.8	0.15	276

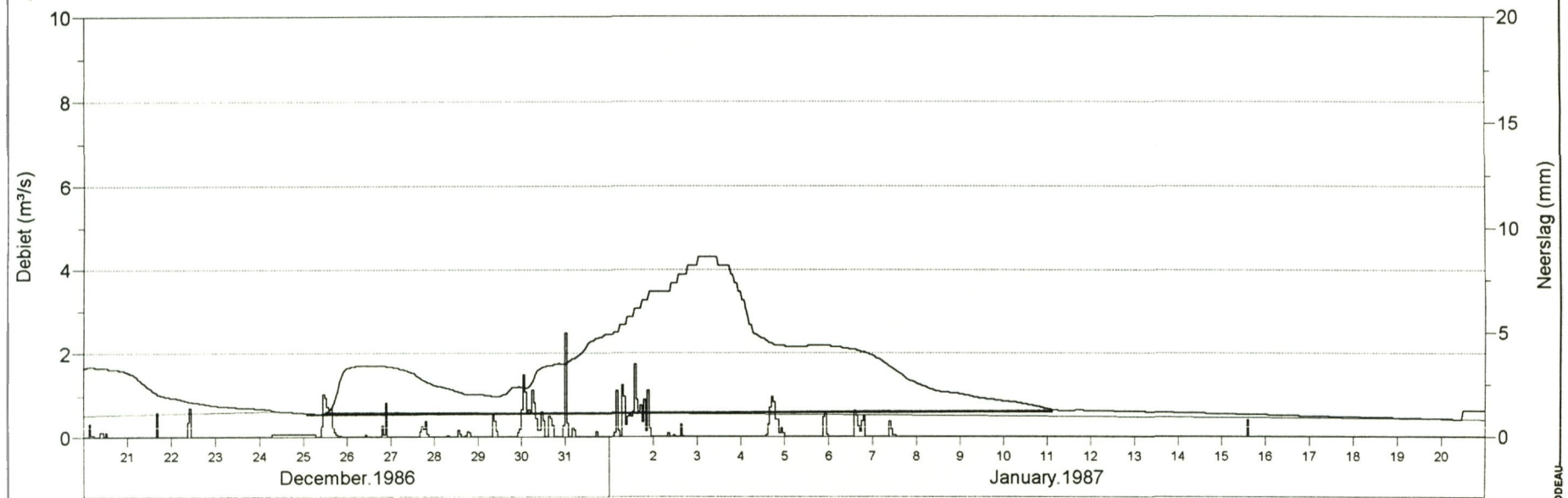
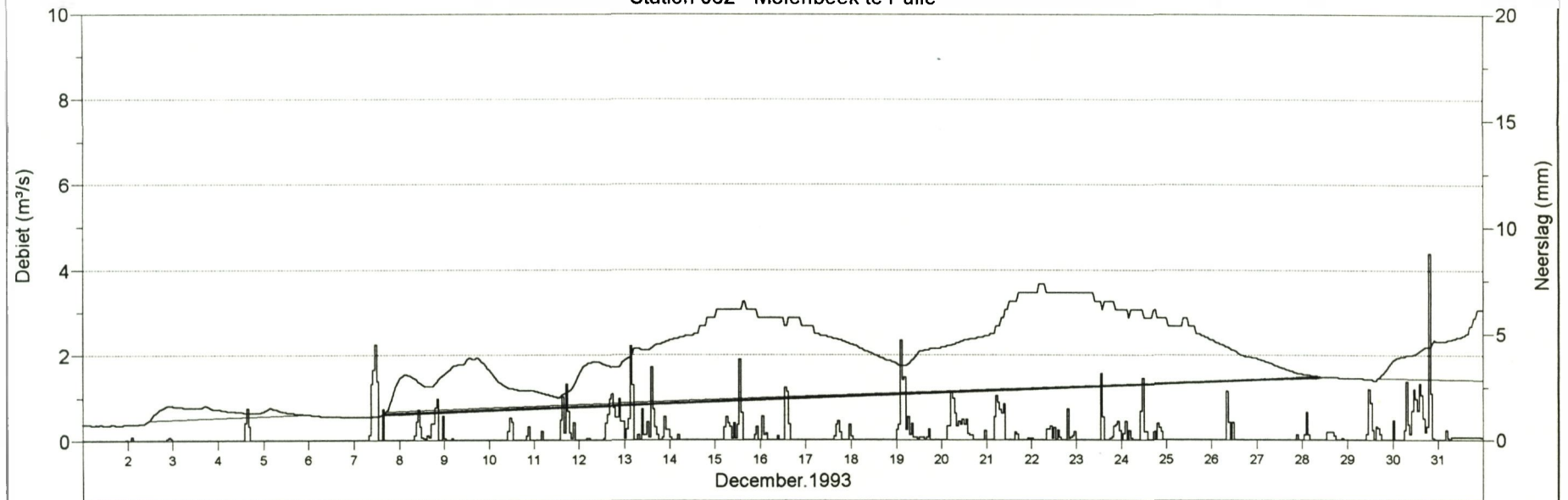
Uurwaarden van neerslag, debiet en basisafvoer

Station 062 - Molenbeek te Pulle



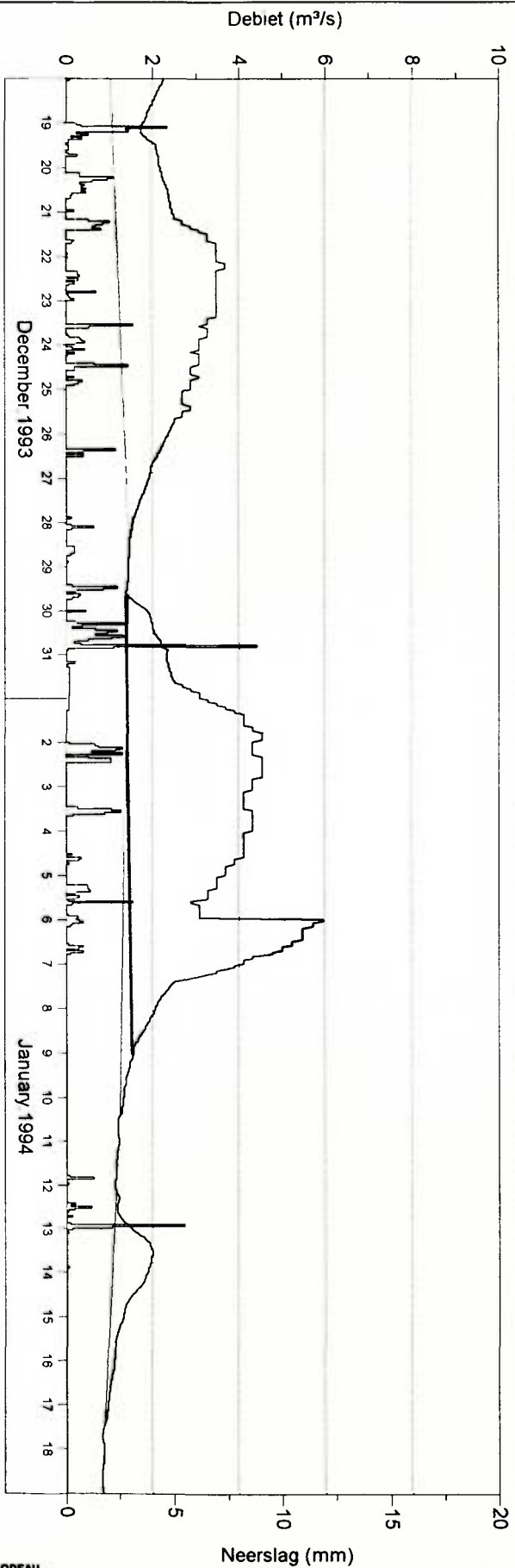
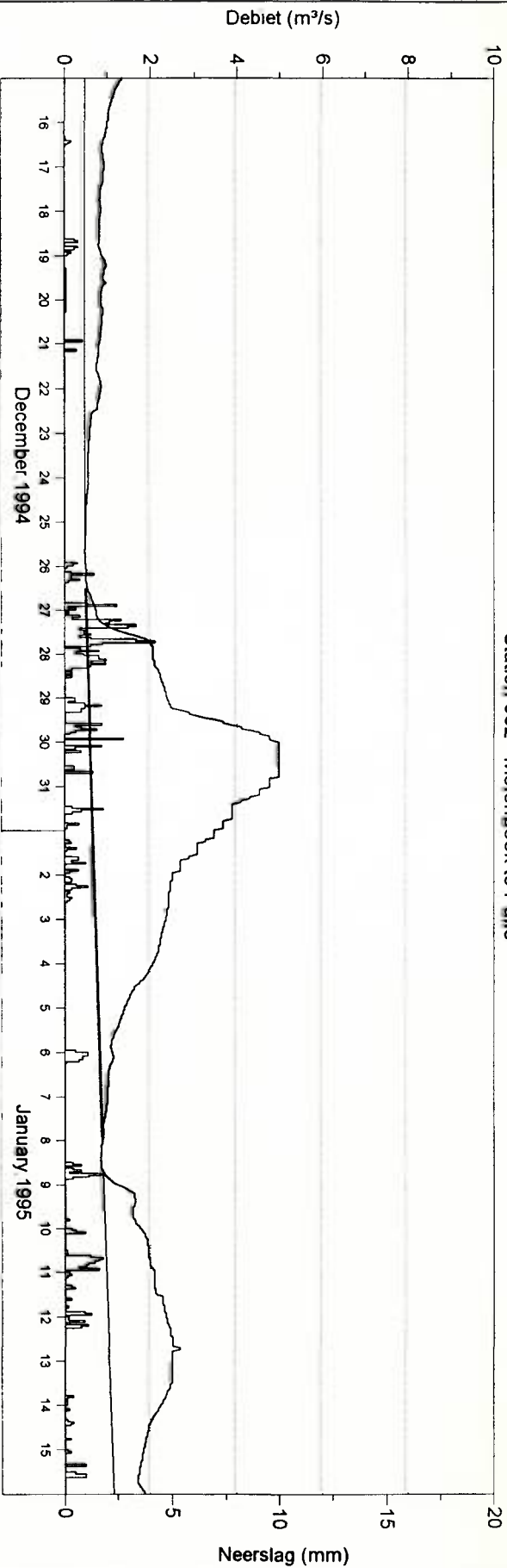
Uurwaarden van neerslag, debiet en basisafvoer

Station 062 - Molenbeek te Pulle



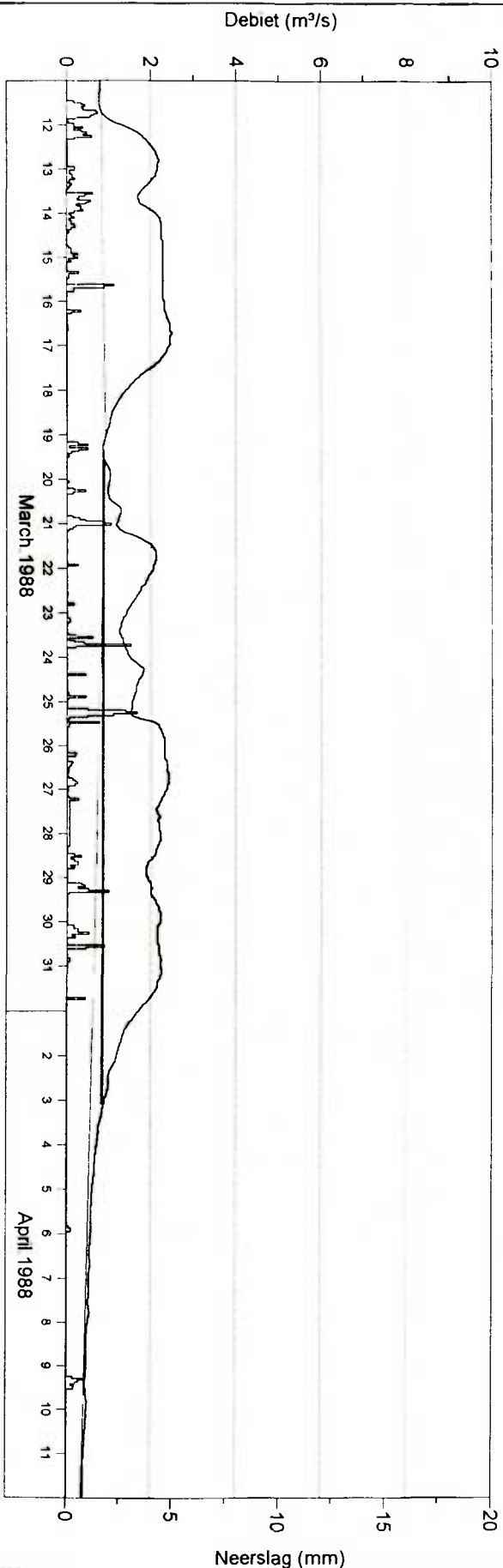
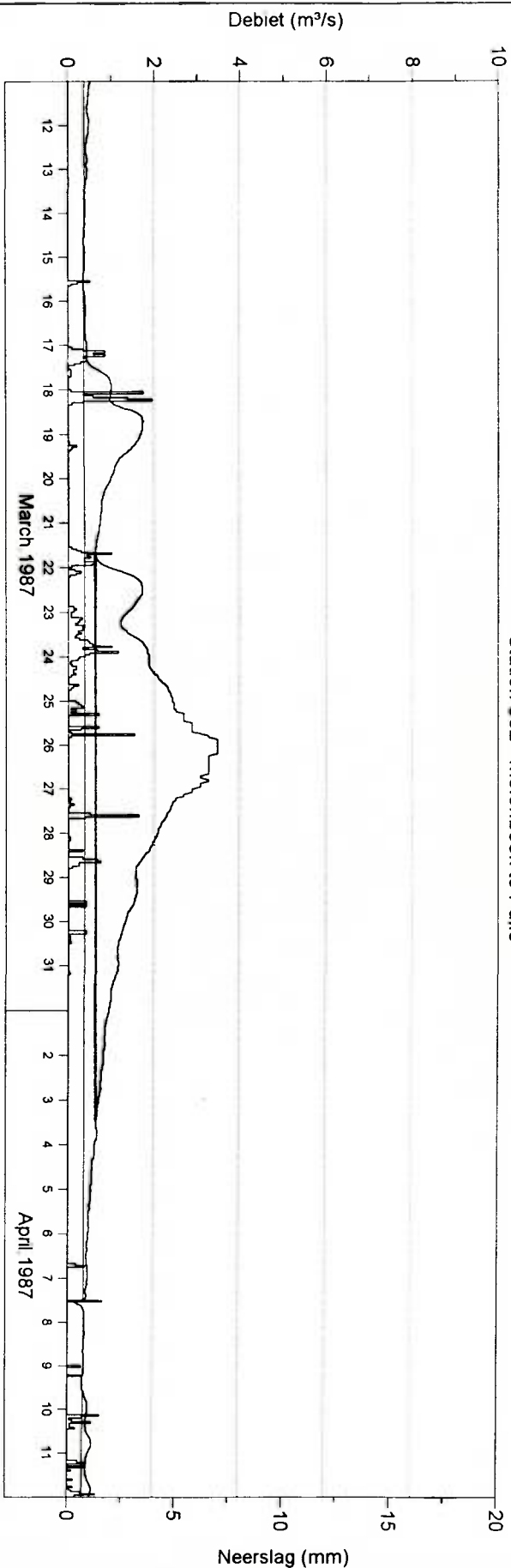
Uurwaarden van neerslag, debiet en basisafvoer

Station 062 - Molenbeek te Pulle



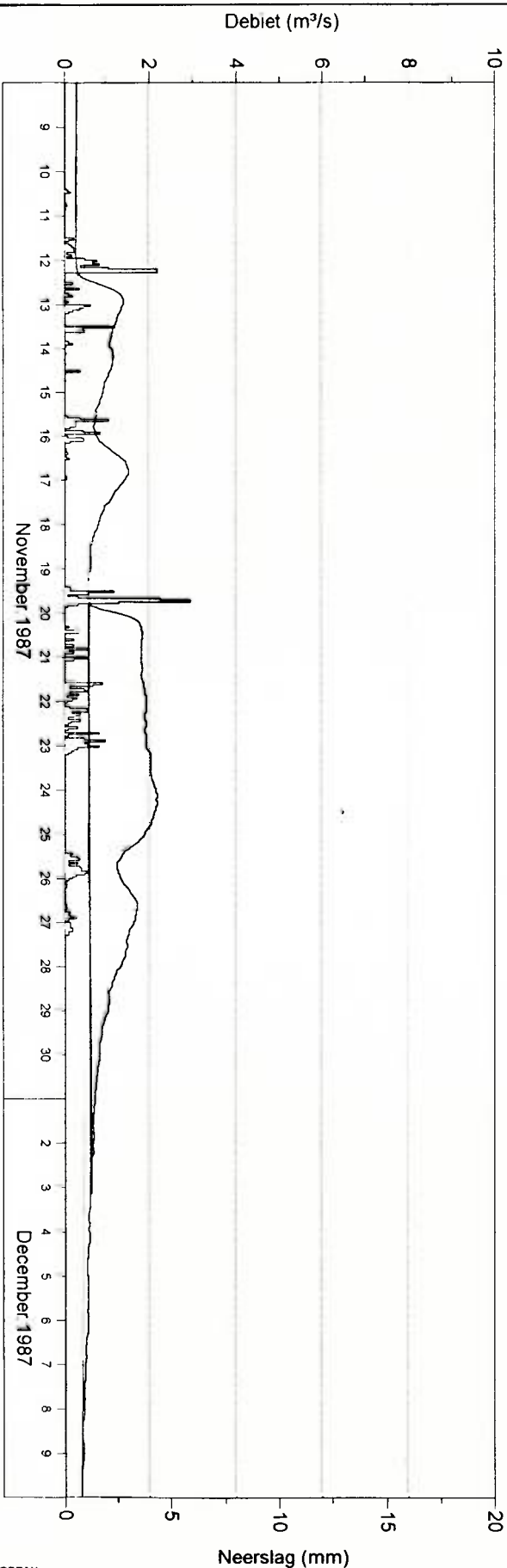
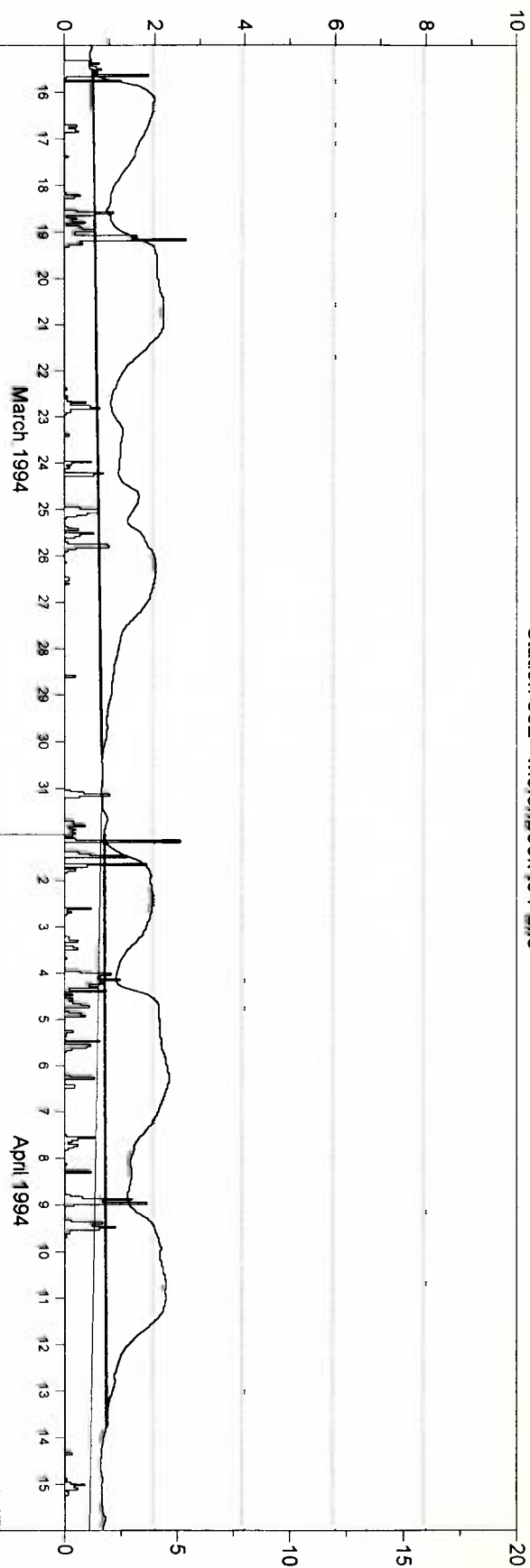
Uurwaarden van neerslag, debiet en basisafvoer

Station 062 - Molenbeek te Pulle

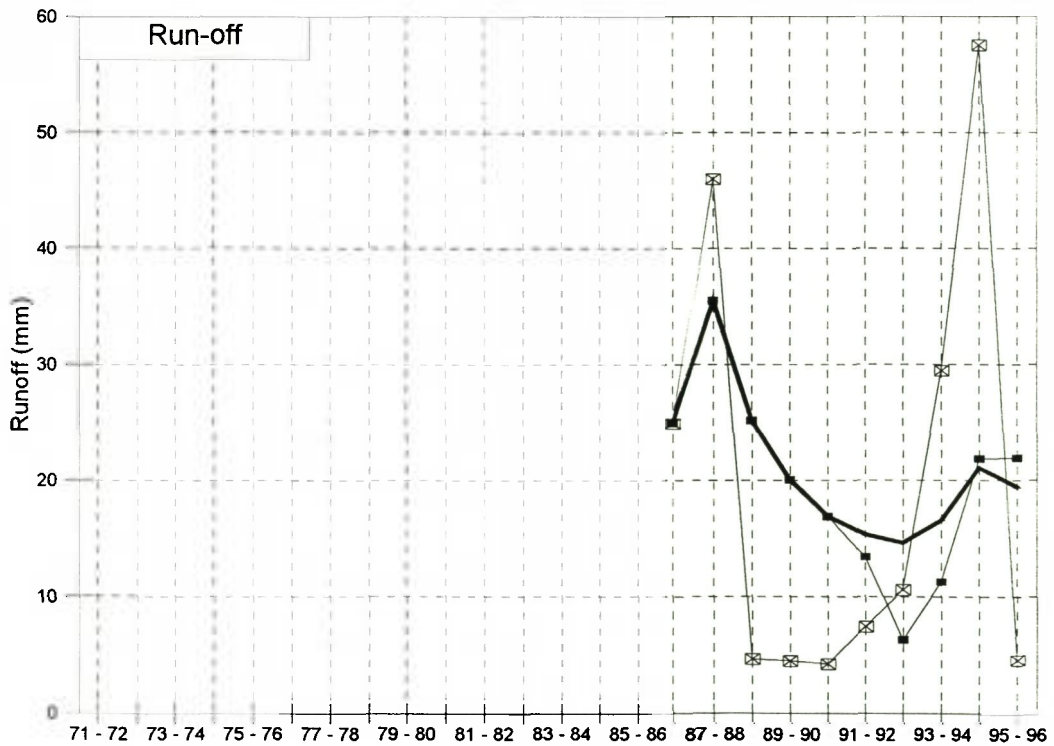
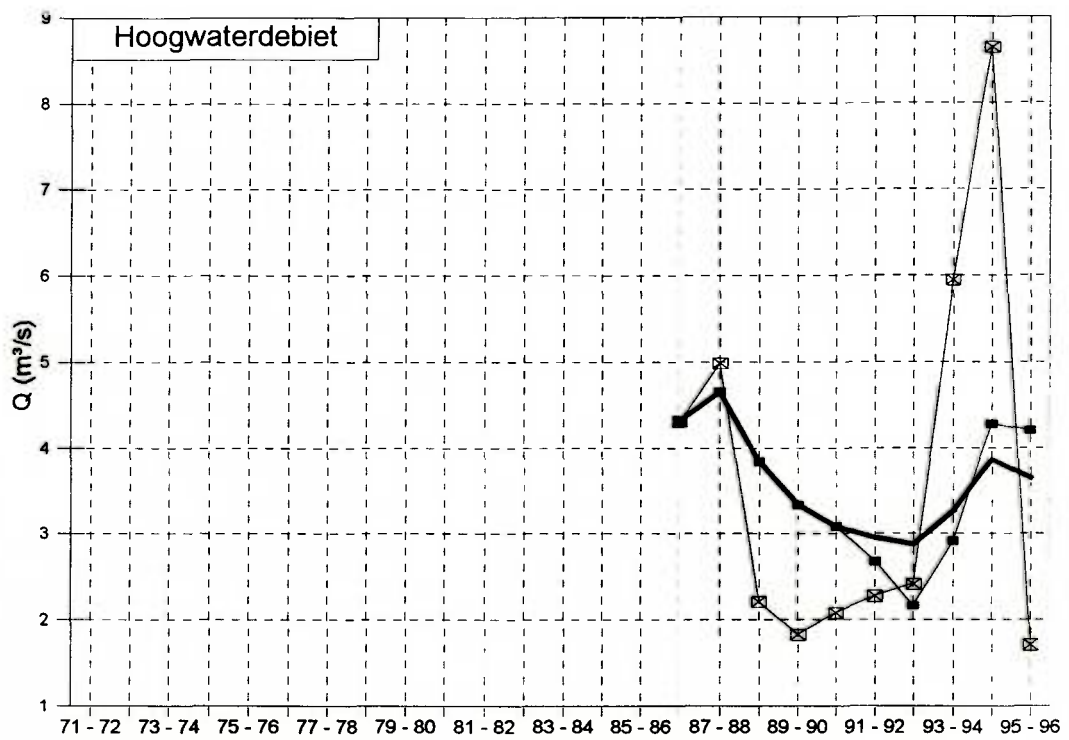


Uurwaarden van neerslag, debiet en basisafvoer

Station 062 - Molenbeek te Pulle

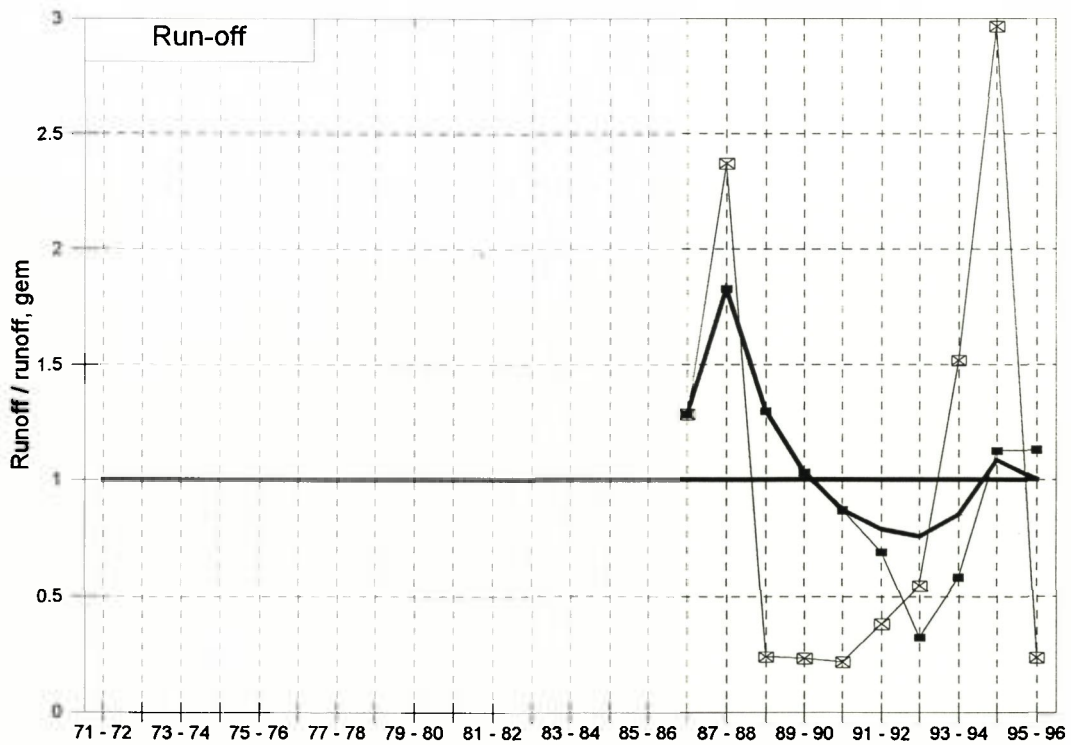
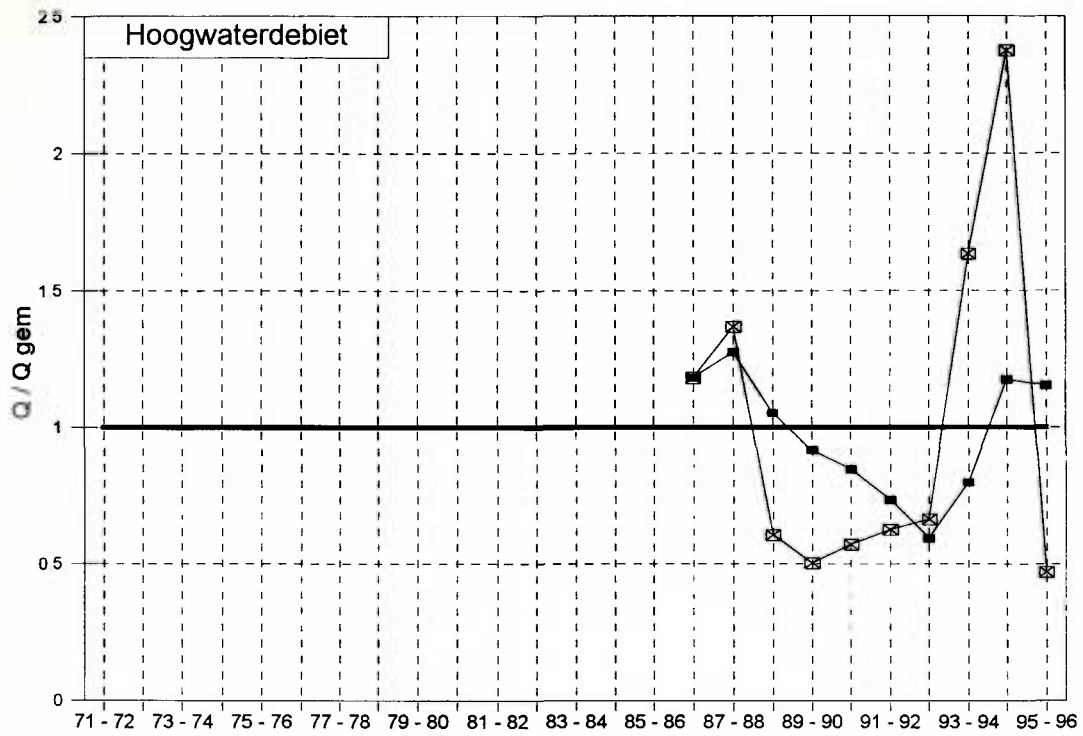


Station 062 : Molenbeek / Pulle



— doorlopend gemiddelde —x— Jaarmaxima —■— 5-jaargemiddelde

Station 062 : Molenbeek / Pulle

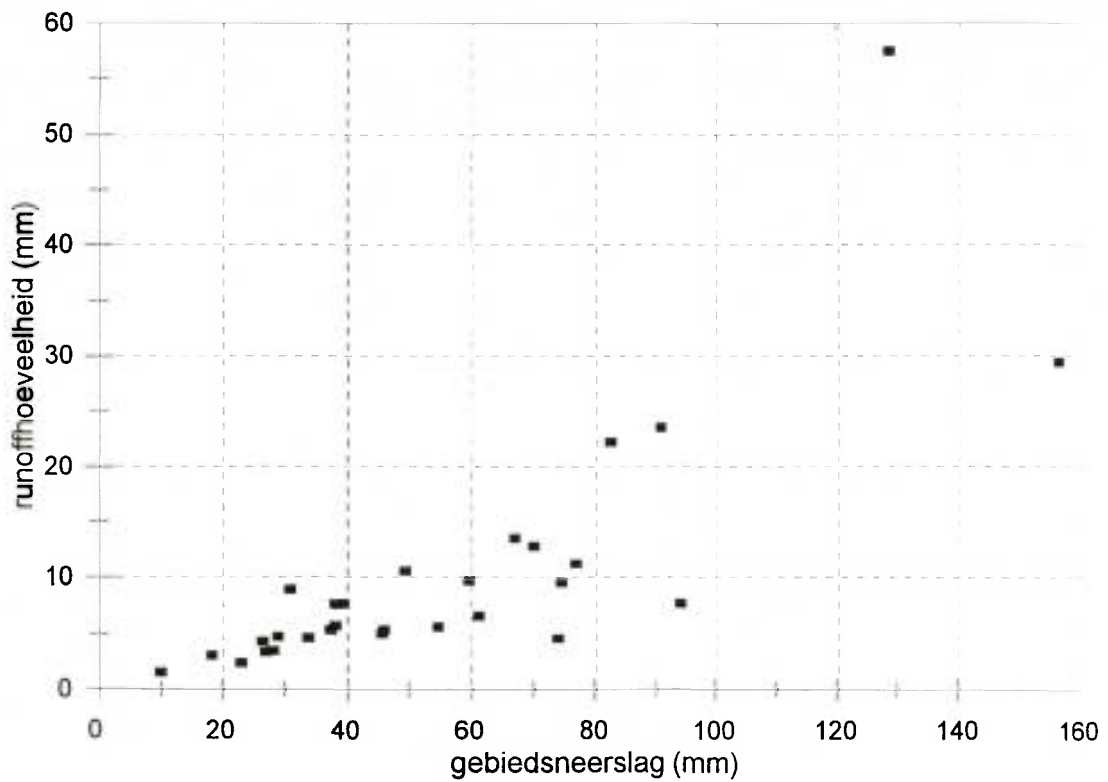
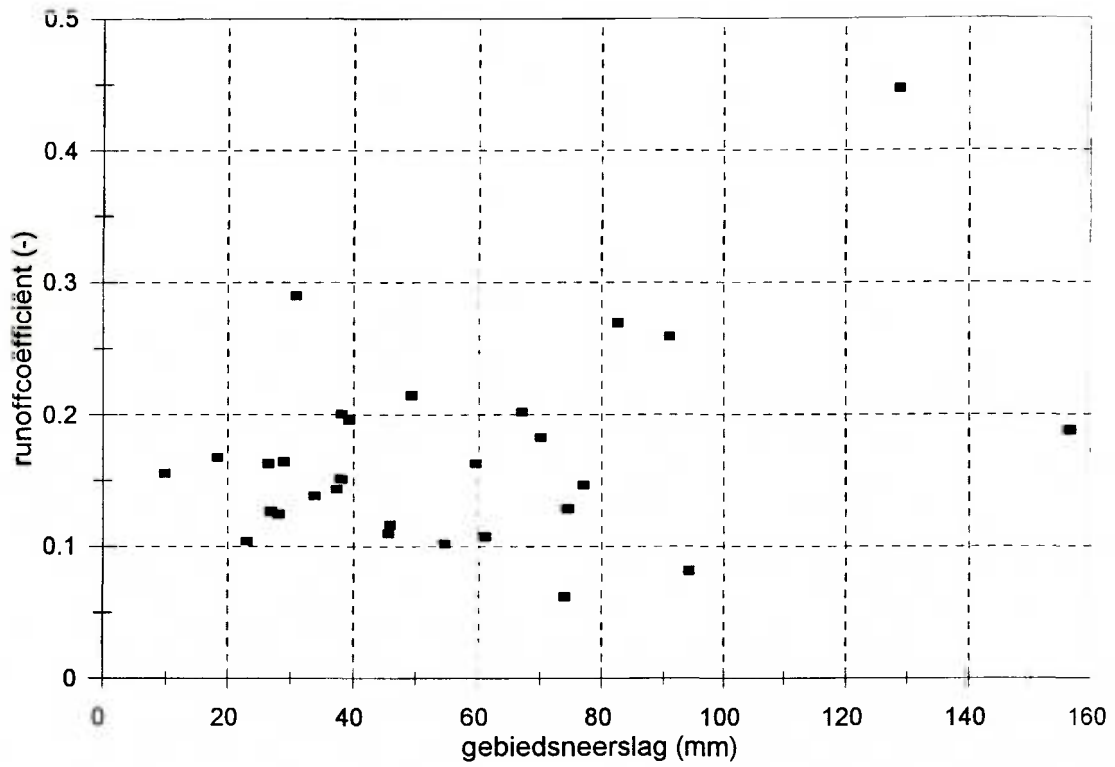


— doorlopend gemiddelde

— Jaarmaxima

— 5-jaargemiddelde

Station 062 : Molenbeek / Pulle

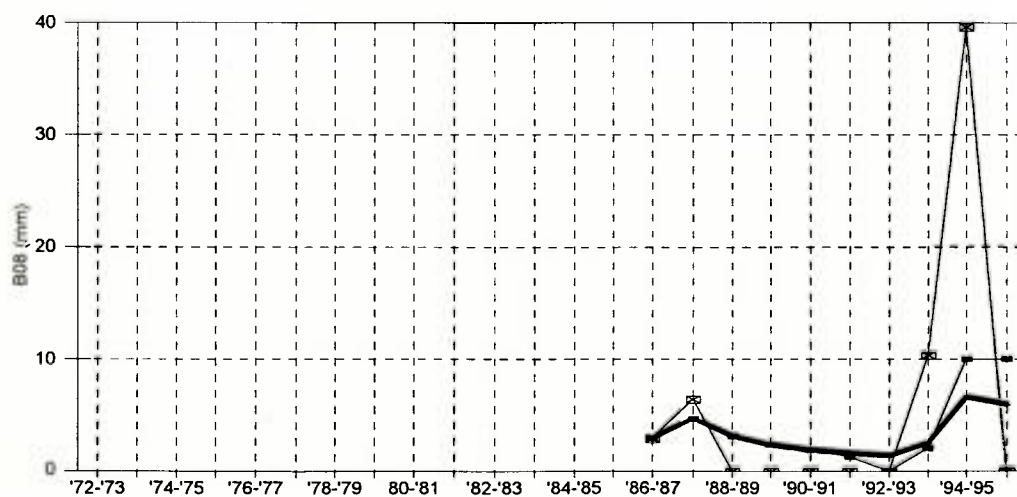
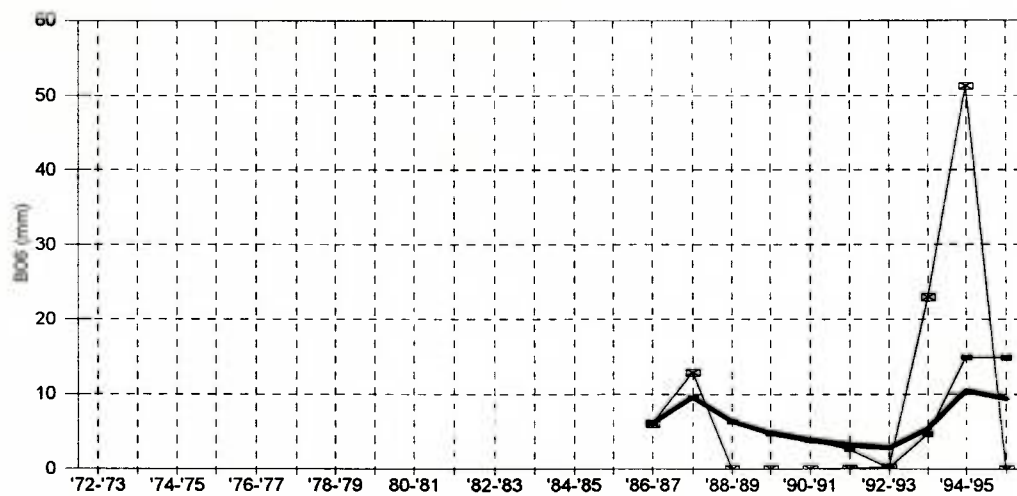
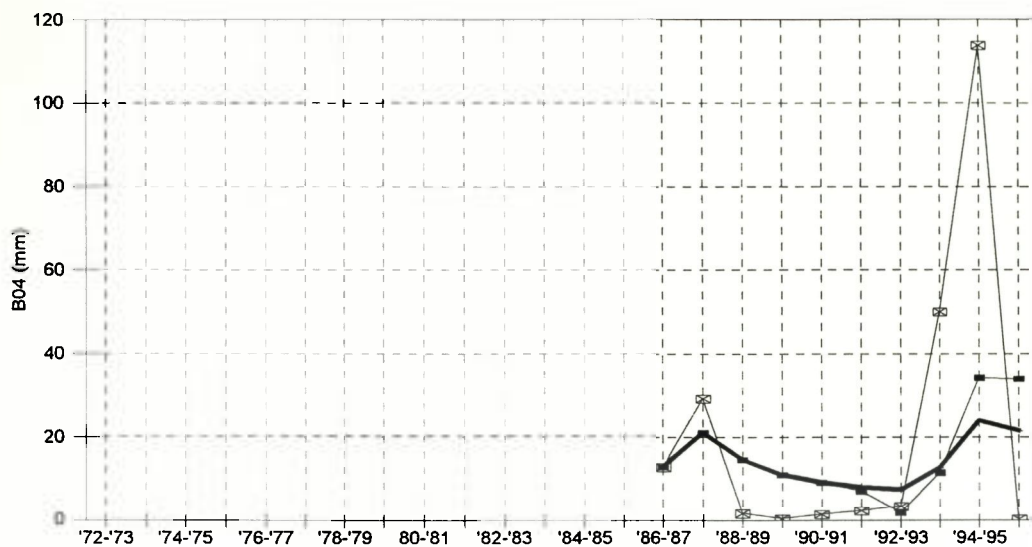


Jaarmaxima van bergingen**Station 062 : Molenbeek / Pulle****Gemidd. jaarmax. : 3.634 m³/s**

Waterjaar	piekdebiet		berging		
	(m³/s)	datum	(mm)	(uur)	datum
Bergingen boven 0,3 Qgem					
'86 -'87	4 304	03/01/87	18.62	938	08/01/87
'87 -'88	4 981	27/01/88	58.13	3498	02/04/88
'88 -'89	2 212	08/03/89	2.73	171	10/03/89
'89 -'90	1 832	01/03/90	1.44	195	03/03/90
'90 -'91	2 082	10/01/91	5.63	478	12/01/91
'91 -'92	2 212	23/12/91	3.91	313	25/12/91
'92 -'93	2 412	13/01/93	25.97	3072	31/01/93
'93 -'94	5 943	06/01/94	87.16	5546	12/04/94
'94 -'95	8 642	31/01/95	155.88	6908	04/04/95
'95 -'96	1 712	23/12/95	0.94	88	25/12/95
Bergingen boven 0,4 Qgem					
'86 -'87	4 304	03/01/87	12.92	493	07/01/87
'87 -'88	4 981	27/01/88	29.24	2090	13/02/88
'88 -'89	2 212	08/03/89	1.63	100	10/03/89
'89 -'90	1 832	01/03/90	0.37	58	02/03/90
'90 -'91	2 082	10/01/91	1.42	141	12/01/91
'91 -'92	2 278	23/12/91	2.28	140	24/12/91
'92 -'93	2 412	13/01/93	3.37	607	15/01/93
'93 -'94	5 943	06/01/94	49.98	3474	05/02/94
'94 -'95	8 642	31/01/95	113.73	4971	11/03/95
'95 -'96	1 712	23/12/95	0.25	42	24/12/95
Bergingen boven 0,5 Qgem					
'86 -'87	4 304	03/01/87	9.10	340	07/01/87
'87 -'88	4 981	27/01/88	18.98	814	12/02/88
'88 -'89	2 212	08/03/89	0.67	64	09/03/89
'89 -'90			0.00	0	
'90 -'91	2 082	10/01/91	0.27	45	11/01/91
'91 -'92	2 278	23/12/91	0.76	77	24/12/91
'92 -'93	2 412	13/01/93	1.02	128	14/01/93
'93 -'94	5 943	06/01/94	35.46	1720	08/01/94
'94 -'95	8 642	31/01/95	78.59	3293	10/03/95
'95 -'96			0.00	0	
Bergingen boven 0,6 Qgem					
'86 -'87	4 304	03/01/87	6.05	252	04/01/87
'87 -'88	4 981	27/01/88	12.86	591	04/02/88
'88 -'89			0.00	0	
'89 -'90			0.00	0	
'90 -'91			0.00	0	
'91 -'92	2 278	23/12/91	0.07	27	23/12/91
'92 -'93	2 412	13/01/93	0.21	39	13/01/93
'93 -'94	5 943	06/01/94	22.96	1206	07/01/94
'94 -'95	8 642	31/01/95	51.22	1944	04/02/95
'95 -'96			0.00	0	

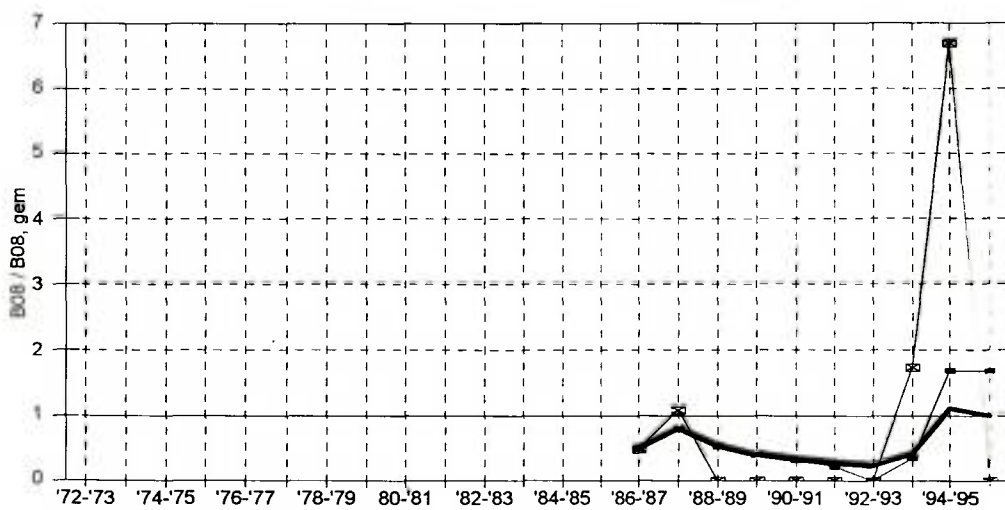
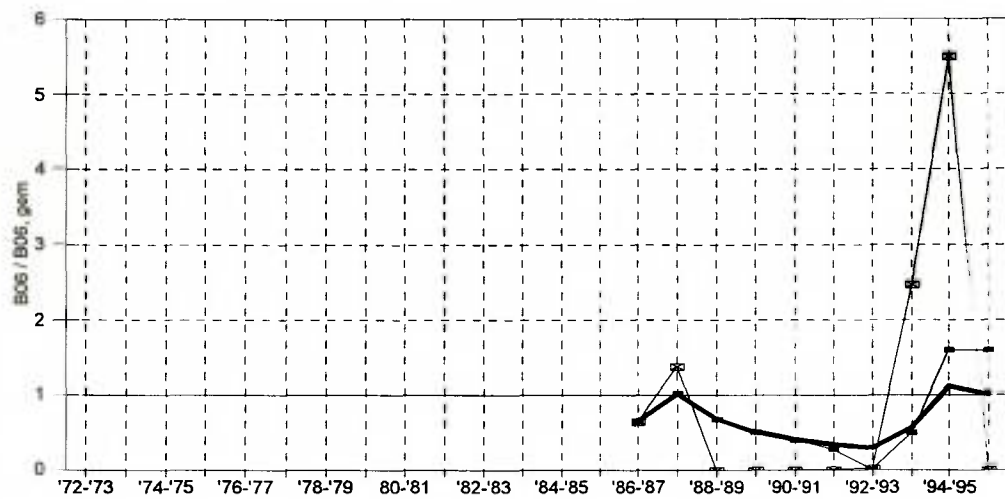
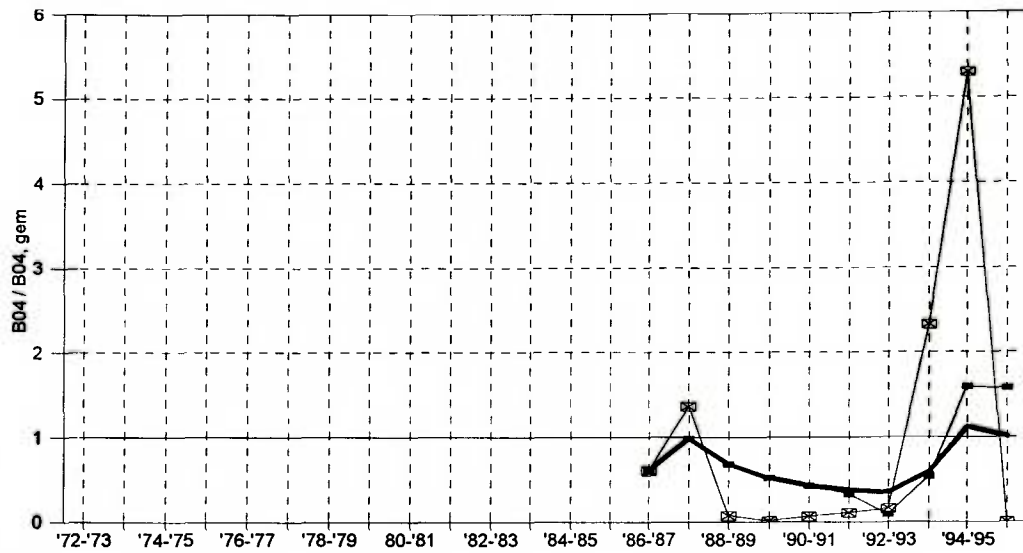
Jaarmaxima van bergingen					
Station 062 : Molenbeek / Pulle			Gemidd.jaarmax. : 3.634 m³/s		
Waterjaar	piekdebiet		berging		
	(m³/s)	datum	(mm)	(uur)	datum
Bergingen boven 0,7 . Qgem					
'86 -'87	4.304	03/01/87	4 28	182	04/01/87
'87 -'88	4.981	27/01/88	9 21	444	31/01/88
'88 -'89			0.00	0	
'89 -'90			0.00	0	
'90 -'91			0.00	0	
'91 -'92			0.00	0	
'92 -'93			0.00	0	
'93 -'94	5.943	06/01/94	13 49	385	07/01/94
'94 -'95	8.642	31/01/95	45 26	1439	04/02/95
'95 -'96			0.00	0	
Bergingen boven 0,8 . Qgem					
'86 -'87	4.304	03/01/87	2.90	132	04/01/87
'87 -'88	4.981	27/01/88	6 44	281	31/01/88
'88 -'89			0.00	0	
'89 -'90			0.00	0	
'90 -'91			0.00	0	
'91 -'92			0.00	0	
'92 -'93			0.00	0	
'93 -'94	5.943	06/01/94	10 30	285	07/01/94
'94 -'95	8.642	31/01/95	39 60	1129	04/02/95
'95 -'96	0.000	30/12/99	0.00	0	30/12/99

Station 062 : Molenbeek / Pulle



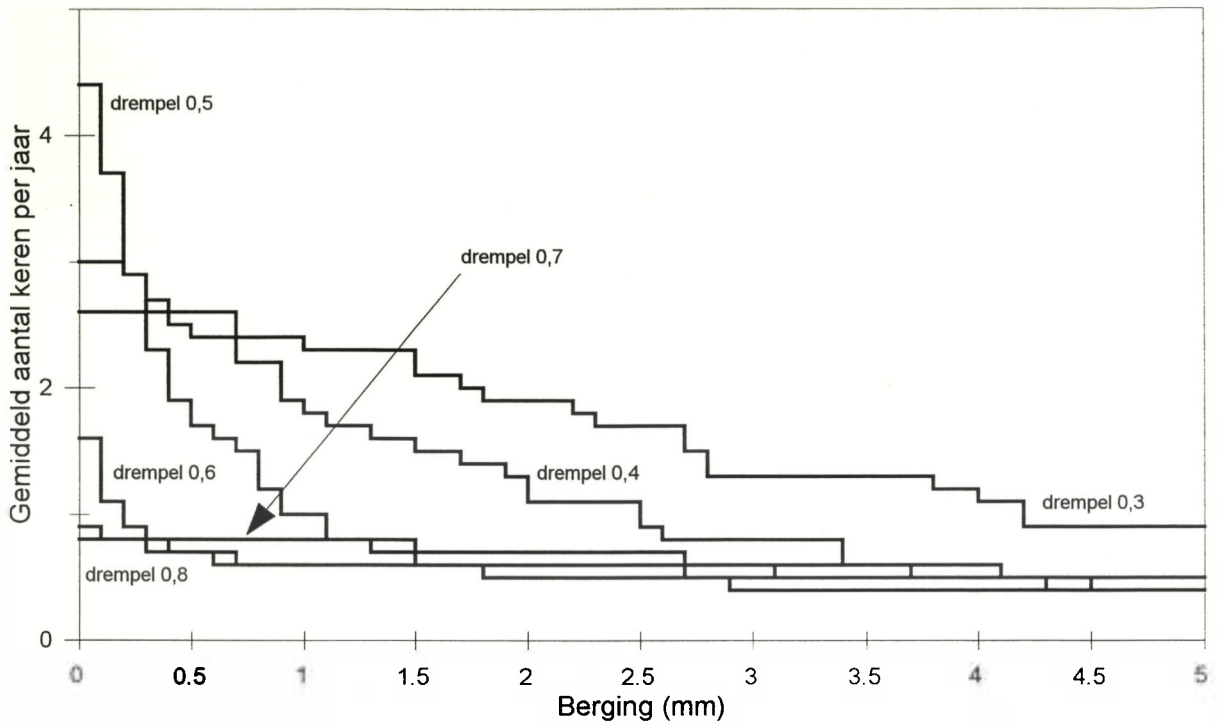
— doorlopend gemiddelde —□— Jaarmaxima —■— 5-jaargemiddelde

Station 062 : Molenbeek / Pulle

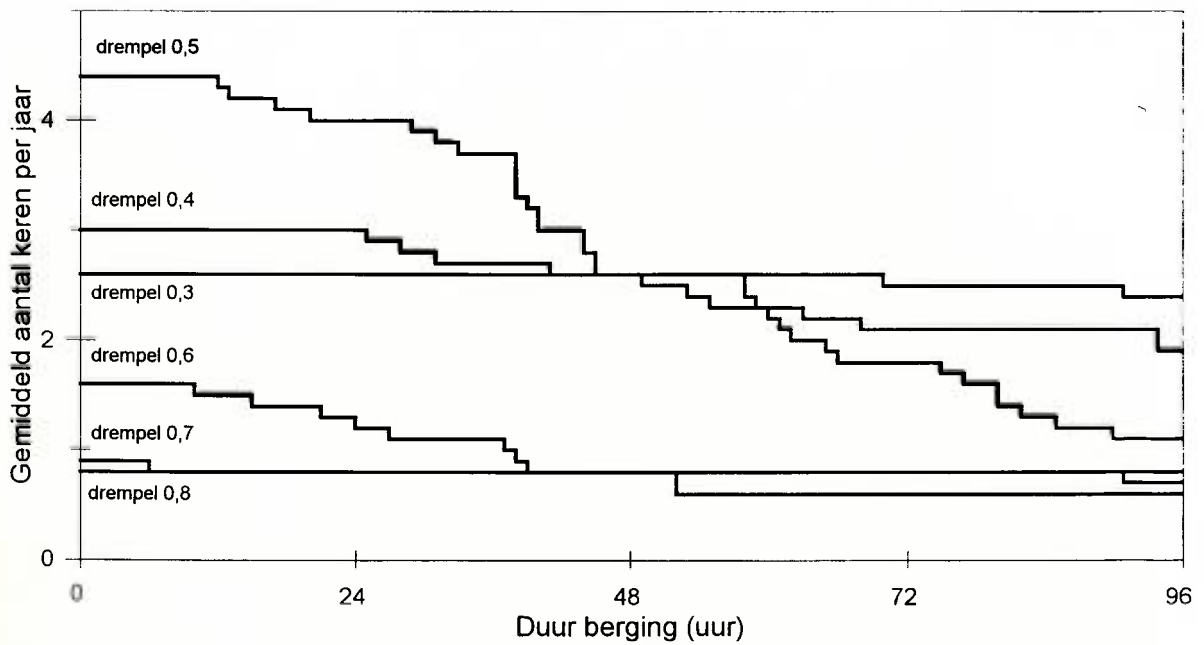


— doorlopend gemiddelde —□— Jaarmaxima —■— 5-jaargemiddelde

Station 062 - Molenbeek te Pulle



Station 062 - Molenbeek te Pulle



Waterbouwkundig Laboratorium
Borgerhout

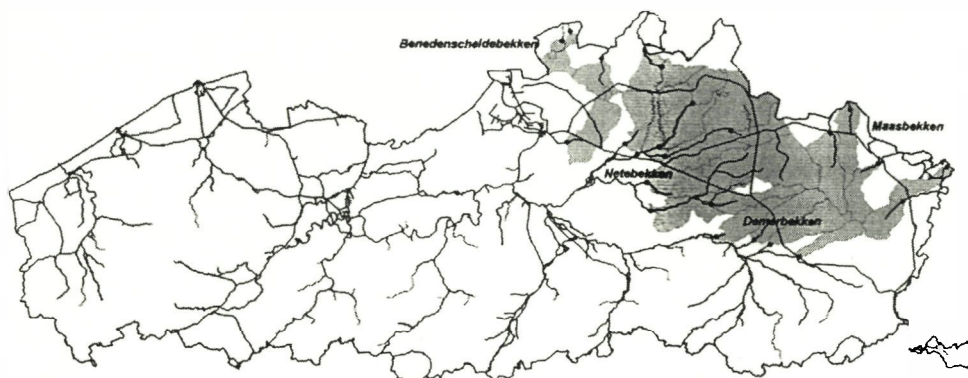
BIBLIOTHEEK

**Analyse van
hoogwaterafvoeren
De stroomgebieden
van de Kempen**

Analyse van hoogwaterafvoeren

De stroomgebieden van de Kempen

Gegevens van de stations / Deel 1



door

ir. Marcel Voet, ir. Jan Swings, ir. Bram Huyghebaert

Werkgroep voor Wetenschappelijk Onderzoek inzake Landinrichting



**Ministerie van de
Vlaamse Gemeenschap**

afdeling Water

De analyse van hoogwaterafvoeren is een uitgave van de afdeling Water in samenwerking met de Werkgroep voor Wetenschappelijk Onderzoek inzake Landinrichting te Merelbeke

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Vormgeving en coördinatie productie

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Achtergrondfoto cover: Impressie van een overstortende waterlaag over de klepstuw op de Dijle te Rotselaar. Insert foto: peilschaal in de meetgoot op de Voer zijrivier van de Dijle, te Leuven / Heverlee

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milieuvriendelijk en gerecycleerd. Offset zonder optische vezels

Inhoud

1. Station 007	De Schijn te Wijnegem
2. Station 022	De Dommel te Overpelt
3. Station 024	De Warmbeek te Achel
4. Station 042	De Kleine Aa te Essen-Wildert
5. Station 044	De Kleine Aa te Wuustwezel
6. Station 047	De Mark te Minderhout
7. Station 048	De Mark te Merksplas
8. Station 052	De Kleine Nete te Grobbendonk
9. Station 054	De Kleine Nete te Herentals
10. Station 058	De Witte Nete te Retie
11. Station 062	De Molenbeek te Pulle

Bijlagen 1b en 1c:

Per station zijn gegeven

- een lijst van jaarmaxima van hoogwaterdebiet.
- grafieken van neerslagen en debiet van de meest markante hoogwaterperiodes.
- een lijst van de grootste runoffhoeveelheden.
- grafieken van de runoffcoefficient en de runoffhoeveelheid in functie van de gebiedsneerslag over het stroomgebied.
- grafieken met de jaarmaxima, het 5-jaargemiddelde en het doorlopend gemiddelde van hoogwaterdebiet en runoffhoeveelheden.
- een lijst van jaarmaxima van bergingen boven bepaald drempeldebiet.
- grafieken met de jaarmaxima, het 5-jaargemiddelde en het doorlopend gemiddelde van bergingen boven bepaald drempeldebiet.
- grafieken van bergingshoeveelheden en -duren in functie van hun voorgekomen frequentie.