

	Q bio m3 / Tag	Q min l / s	Q max l / s
Mittelwert	18'746		
20%-Wert	11'440	90	285
50%-Wert	15'152	115	378
80%-Wert	25'899	211	484
Q tw ¹⁾	13'296	103	332
2 Q tw			663

1) Mittel aus 20% und 50%-Wert

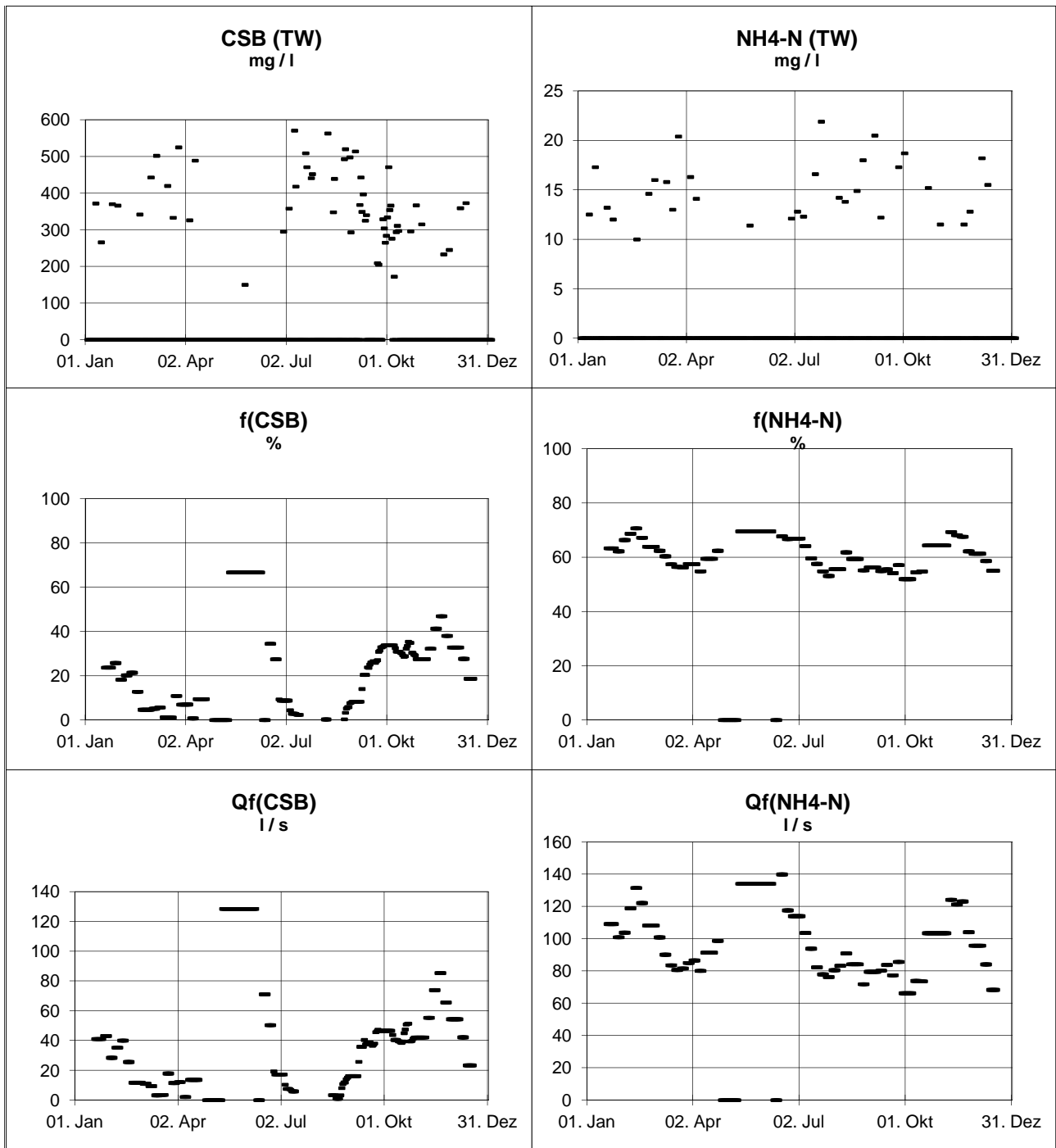
Fremdwasseranteil 36 %

siehe Seite 2

	Tagesmittelwerte	
	m3 / d	l / s
Q tw	13'296	154
Q fremd ²⁾	4'779	55
Q schmutz ³⁾	8'517	99

²⁾ = Q tw * Fremdwasseranteil / 100

³⁾ = Q tw - Q fremd



Vorgaben:

Q schmutz	200	l/EW*Tag
CSB	90	g/EW*Tag
NH4-N	7.5	g/EW*Tag
K soll (CSB)	450	mg / l
K soll (NH4-N)	37.5	mg / l

K soll: erwartete Konzentration im Zulauf, wenn nur Schmutzwasser zuläuft!

Schätzung aus EW biochemisch

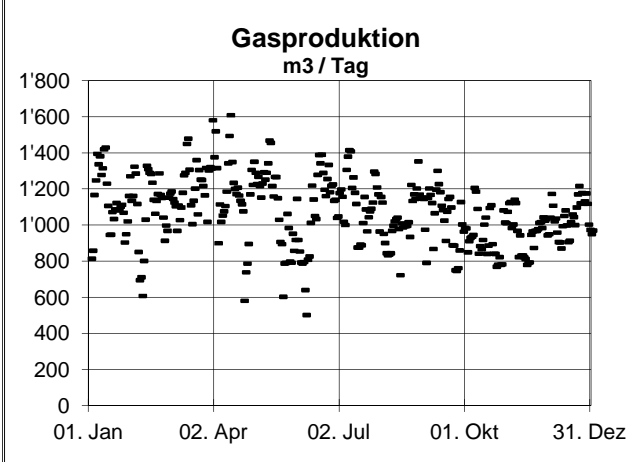
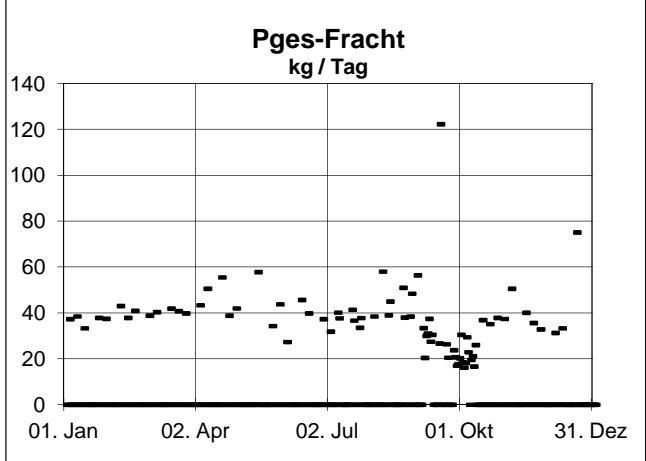
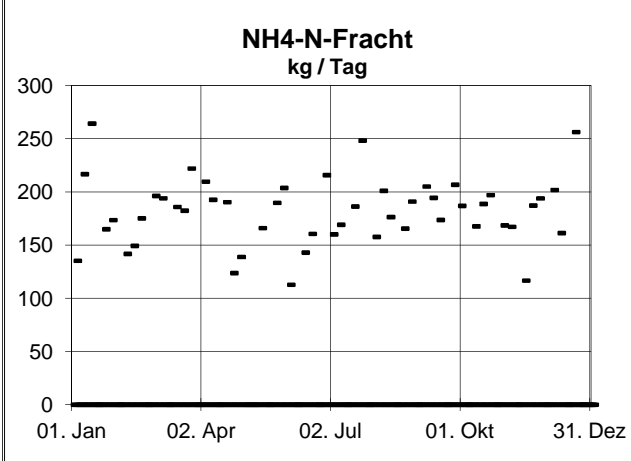
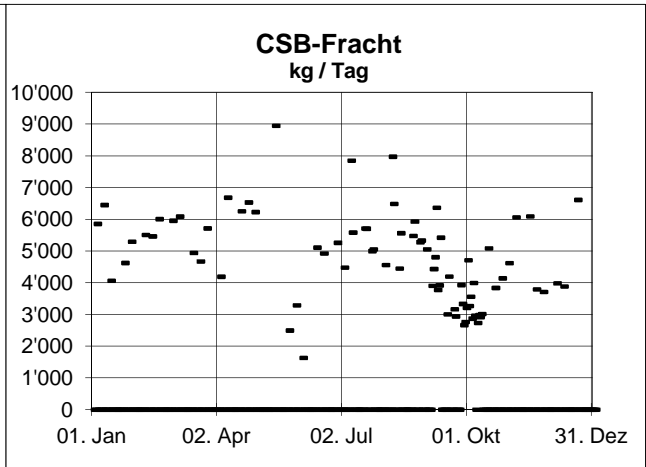
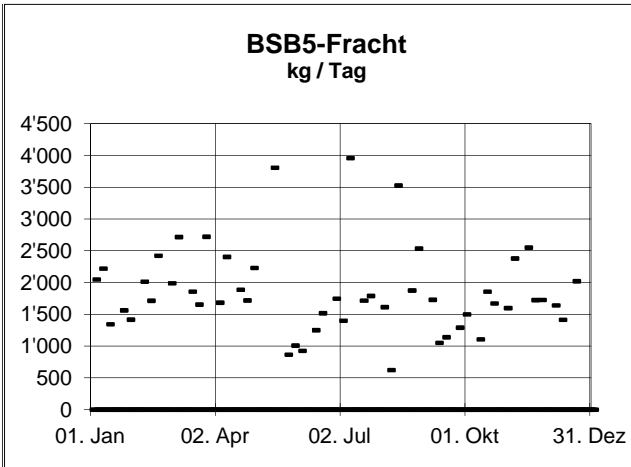
Q tw	13'296	m3 / Tag
Q schmutz (EW) ¹⁾	9'400	m3 / Tag
Q fremd (EW)	3'896	m3 / Tag
f (EW)	29	%

¹⁾ 200 l / EW * Tag

Schätzung aus den Zulaufkonzentrationen:

f(CSB)	Jahresmittel	18	%
f(NH4-N)	Jahresmittel	60	%

f Mittelwert	36	%
f gewählt	36	%

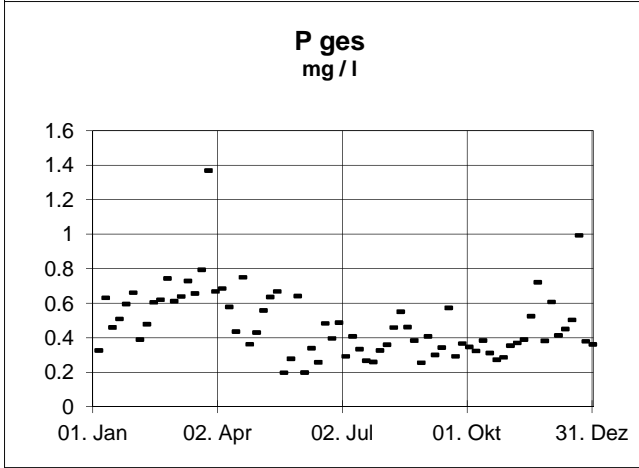
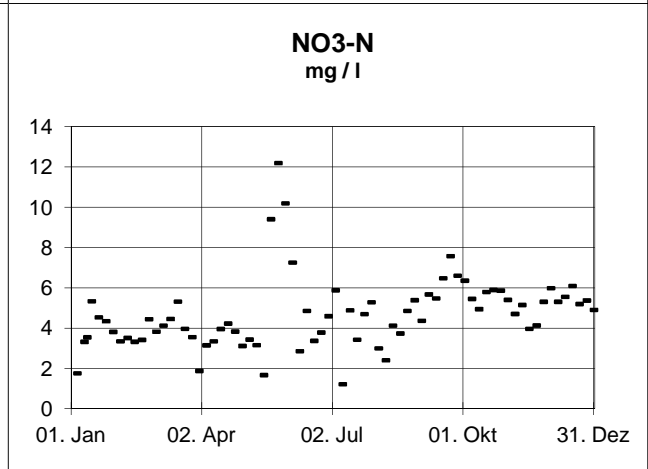
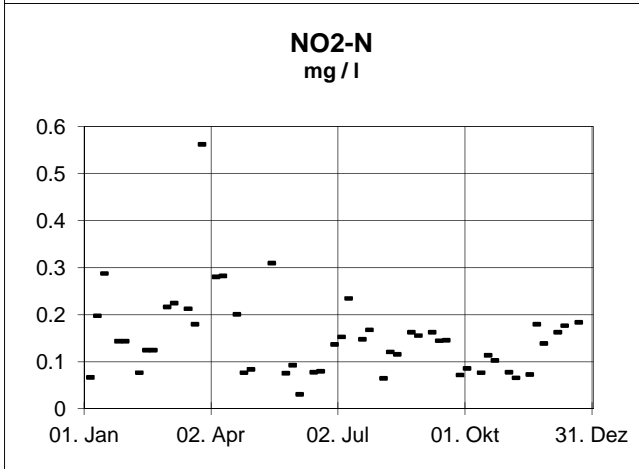
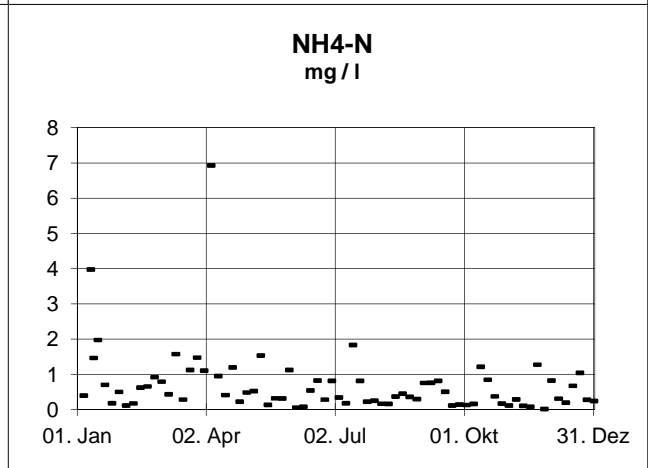
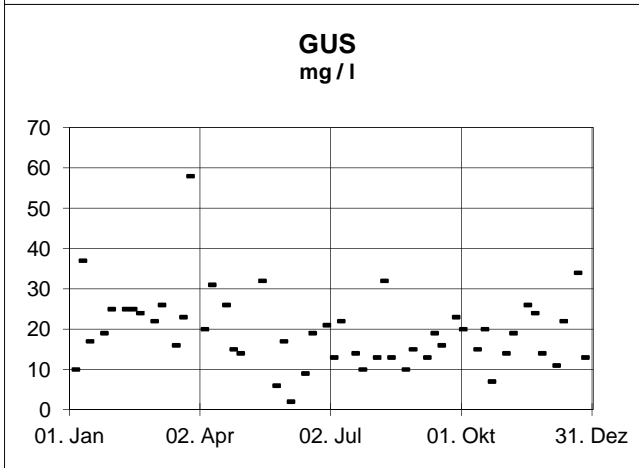
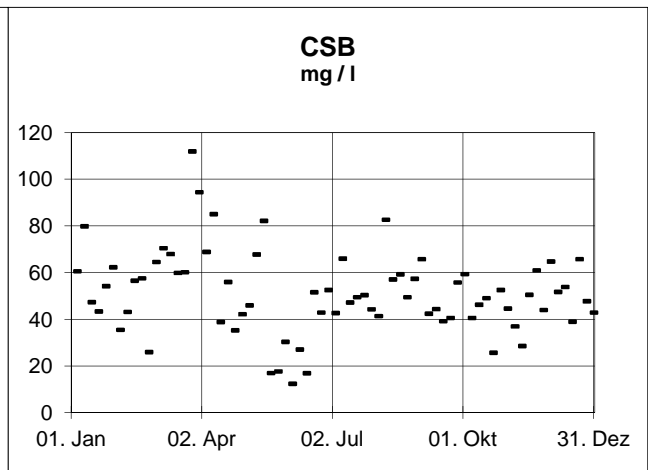
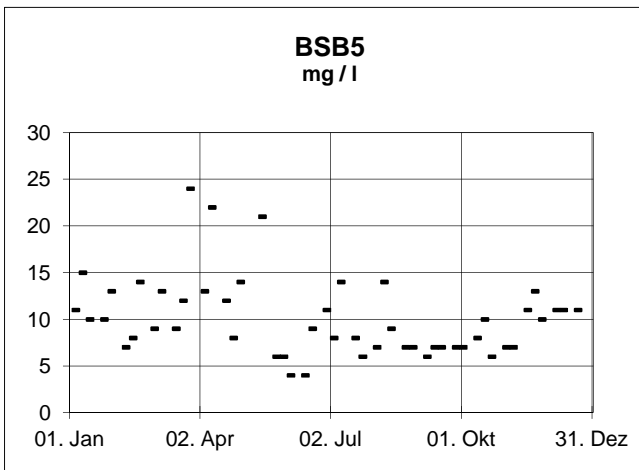


EZ angeschlossen	18'500
EW biochem. gewählt	47'000
EW biochem. 80%-Wert	58'000
EW Stickstoff	24'000
EW Phosphor	23'000

Zulauffrachten	BSB5 kg/Tag	CSB kg/Tag	NH4-N kg/Tag	Pges kg/Tag	Gasp. m3/Tag	FS kg/Tag
Mittelwert	1'844	4'738	182	37	1'074	2'964
50%-Wert	1'723	4'710	186	37	1'082	
80%-Wert	2'261	5'941	202	42	1'223	

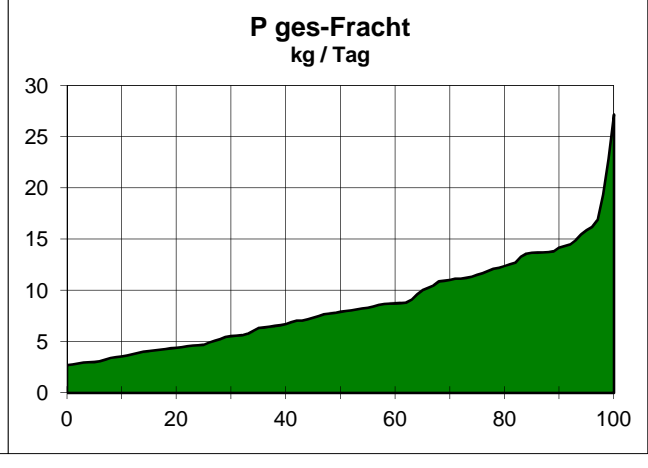
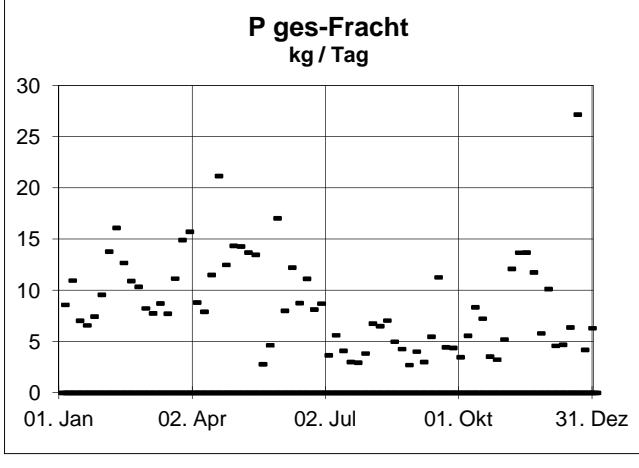
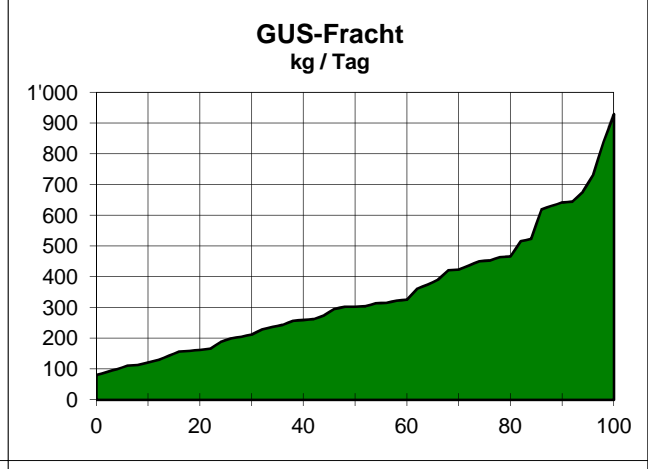
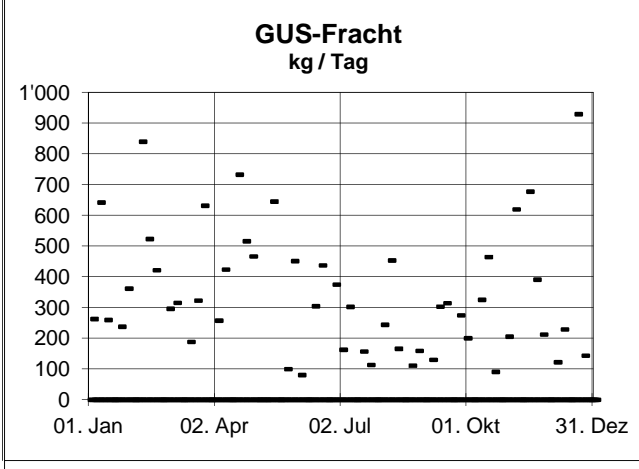
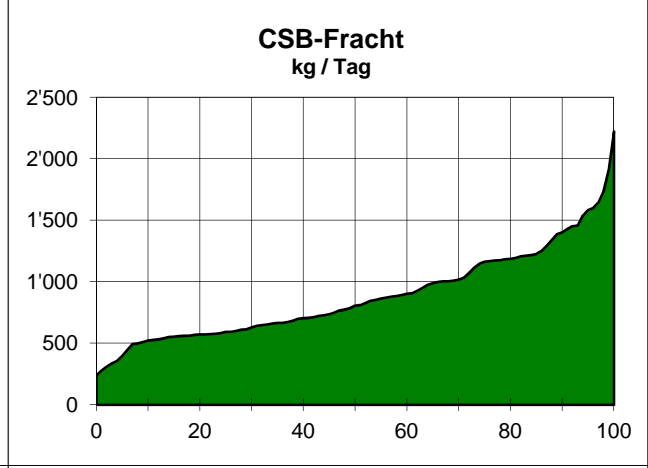
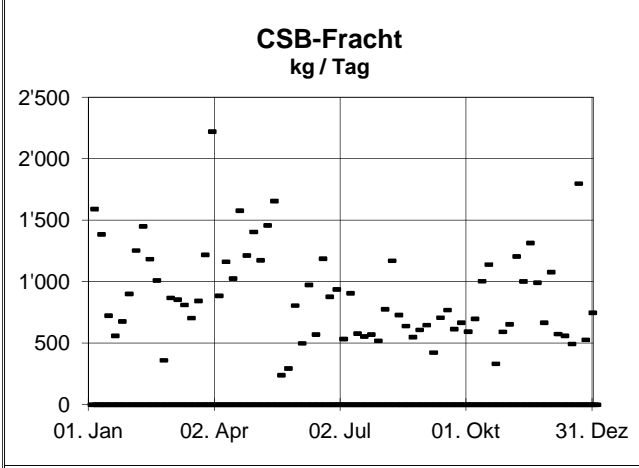
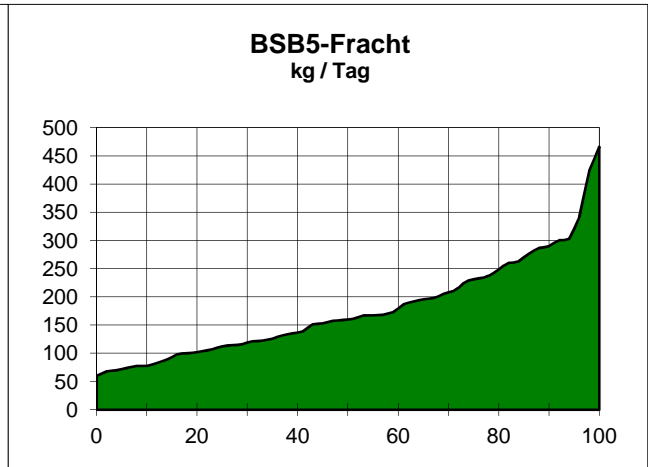
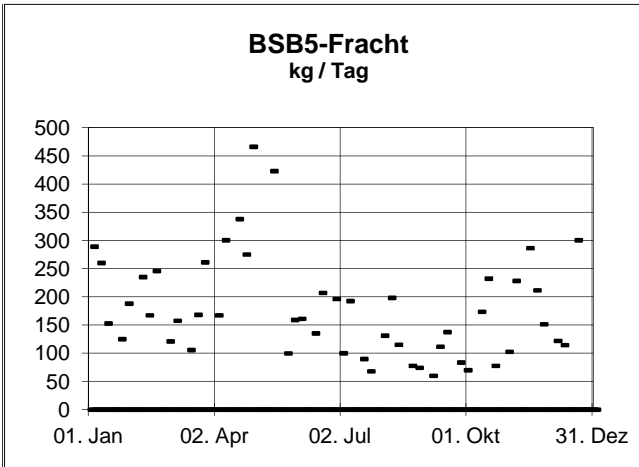
spezifische Belastung pro EW	g / Tag	g / Tag	g / Tag	g / Tag	Probenahmeort: ab VKB	l / Tag	g / Tag
	45	90	7.5	1.6		30	85

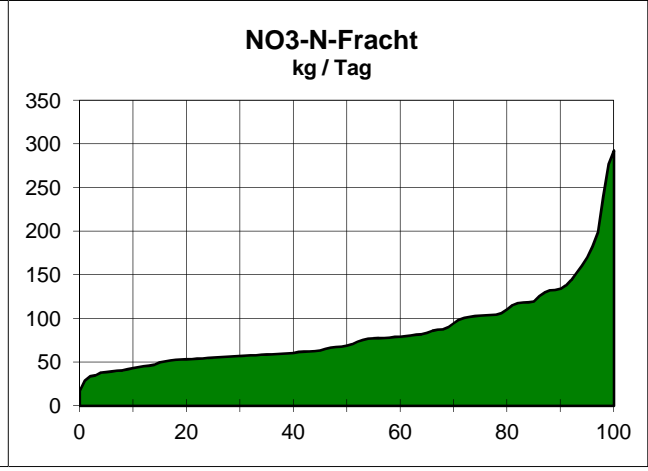
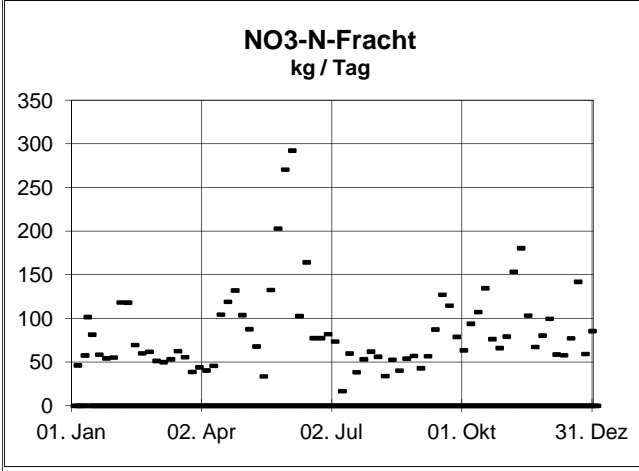
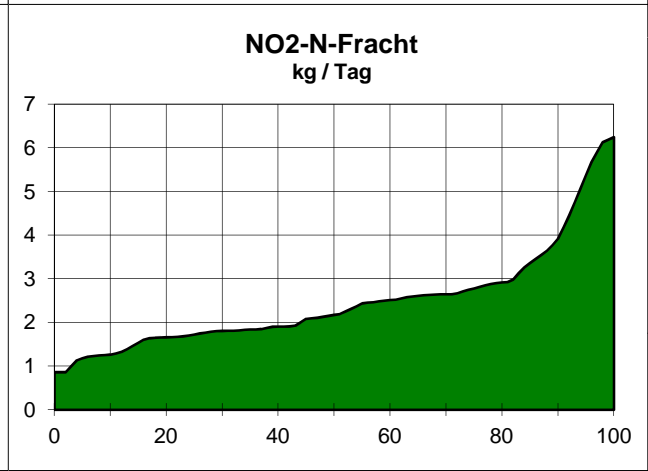
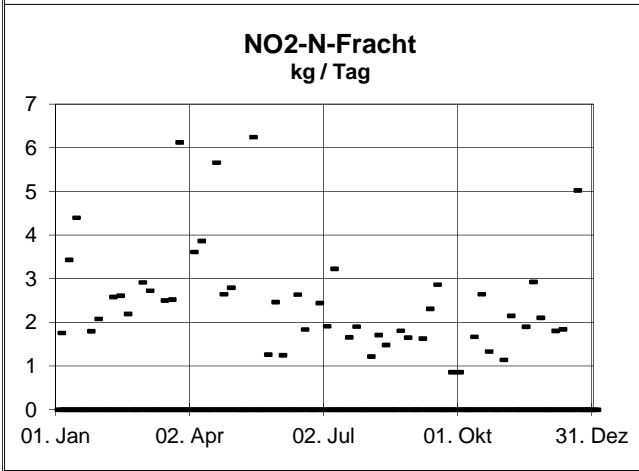
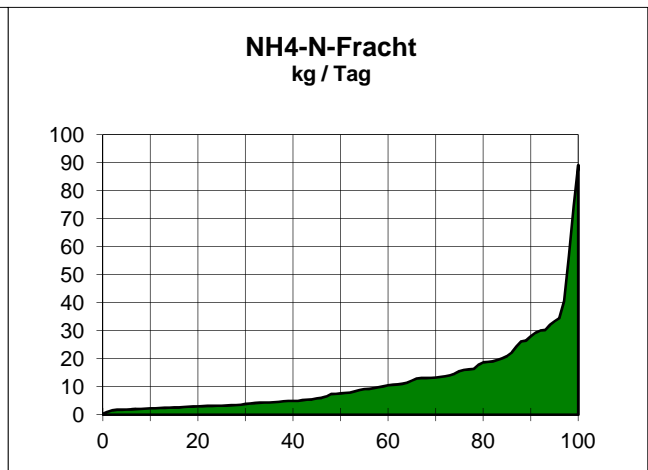
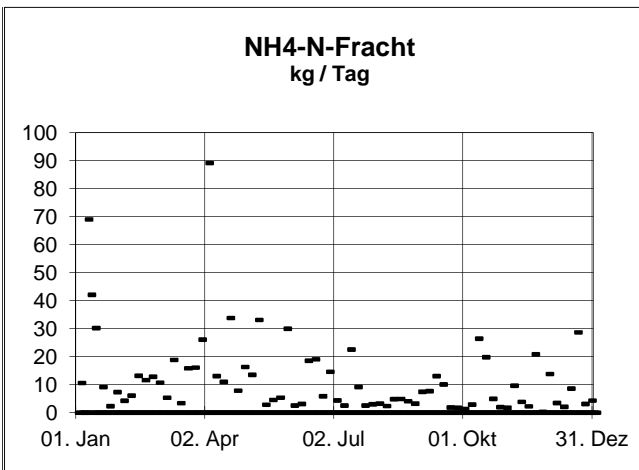
Einwohnerwerte	BSB5 EW	CSB EW	NH4-N EW	Pges EW	Mittelwerte EW	Gasp. EW	FS EW
Mittelwert	40'978	52'649	24'209	22'971	35'202	35'792	34'874
50%-Wert	38'279	52'333	24'808	23'392	34'703	36'067	
80%-Wert	50'250	66'011	26'966	26'208	42'359	40'767	



Angaben in mg/l	Mittel- wert	90%- Wert	Grenz- wert ¹⁾
BSB5	10.1	14.0	15
CSB	51.1	68.7	
GUS	19.4	31.0	15
NH4-N	0.7	1.4	2
NO2-N	0.2	0.2	0.3
NO3-N	4.7	6.3	
P ges	0.48	0.68	0.8

¹⁾ nach GSchV vom 28. Oktober 1998
CSB: Richtwert





Auslauffrachten:

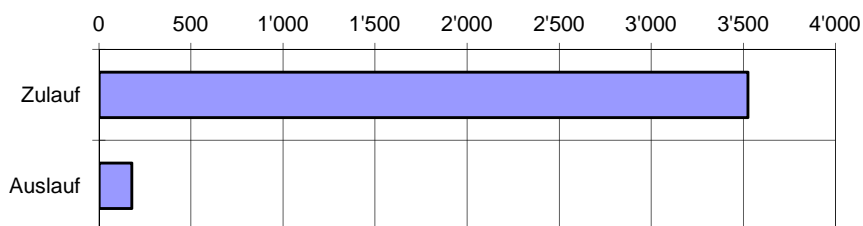
Angaben in kg/Tag	Mittel- wert	50%- Wert	80%- Wert	Mittel 5 - 95 %
BSB5	178	160	249	171
CSB	884	806	1'186	863
GUS	345	303	466	330
NH4-N	12.3	7.6	18.7	10.2
NO2-N	2.5	2.2	2.9	2.4
NO3-N	84.8	68.8	110.4	79.1
P ges	8.7	7.9	12.4	8.3

Abbauleistungen:

	EW gewählt	Spez. B. g / EW	Zulauf kg / Tag	Auslauf kg / Tag	Abbau %	Nitrifika- tion %
BSB5	47'000	75	3'525	178	95	
CSB	47'000	140	6'580	884	87	
N ges				129.0	55	
N Kjel	24'000	12	288.0	41.8		86
NH4-N		7	168.0	12.3		
NO2-N				2.5		
NO3-N				84.8		
N org		5	120.0	29.5		
Pges	23'000	2	46.0	8.7	81	

Auslauf: Summe N im Auslauf
 Roh-Zulauf / Auslauf (NH4-N + Norg)
 CSB / 30

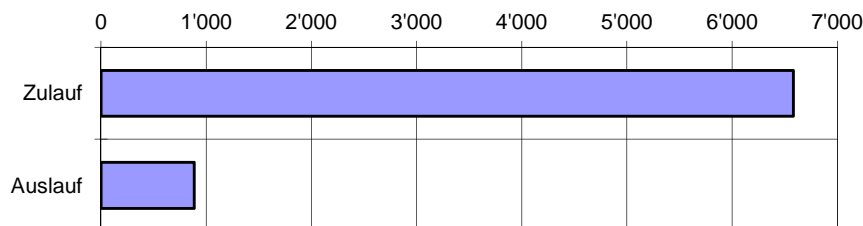
BSB5-Frachten in kg / Tag



BSB5- Abbau

3'347	kg / Tag
95	%
85	%

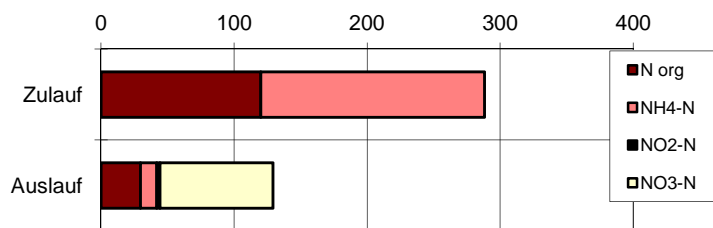
CSB-Frachten in kg / Tag



CSB-Abbau

5'696	kg / Tag
87	%
0	%

Stickstoff-Frachten in kg / Tag



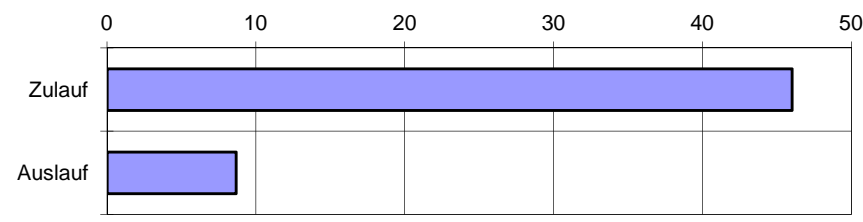
N-Elimination

159	kg / Tag
55	%
30	%

Nitrifikation

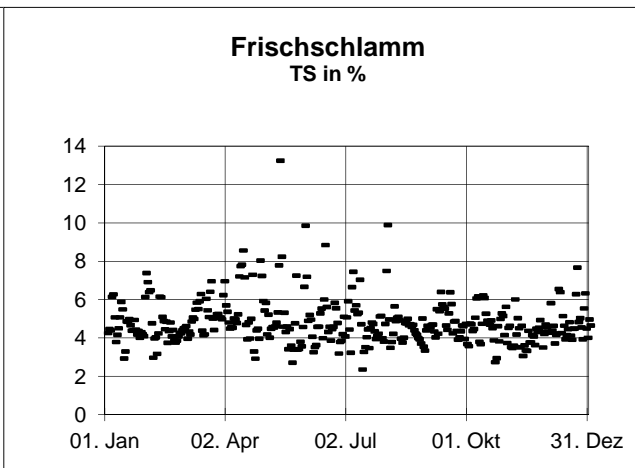
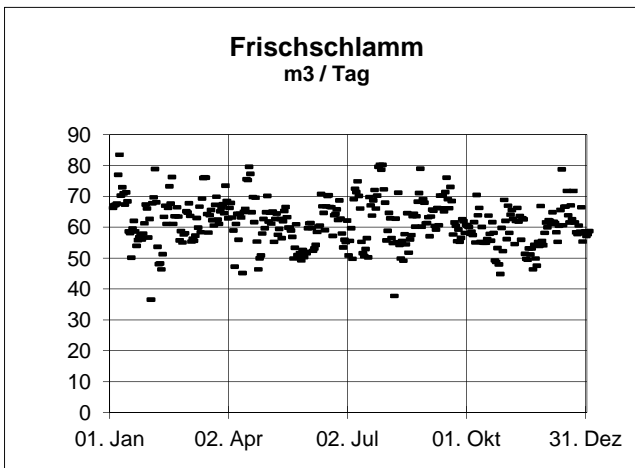
246	kg / Tag
86	%
90	%

Phosphor-Frachten in kg / Tag



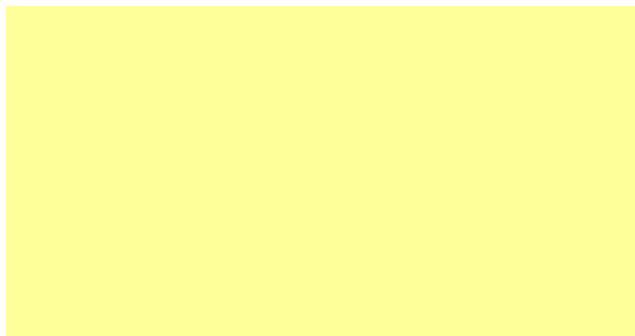
P-Elimination

37	kg / Tag
81	%
80	%



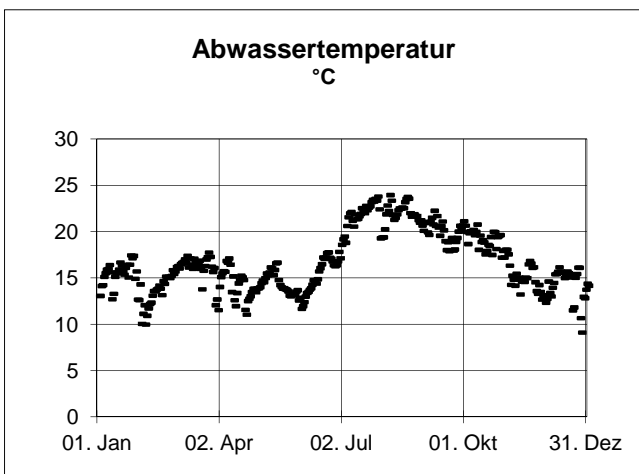
Frishschlammfall: Mittelwerte

Frishschl. nass	61.5	m3/Tag
TS-Anteil	4.8	%
Frishschl. in TS	2'964	kg/Tag



Jahresanfall

Frishschl. in TS	1'082	t / Jahr
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Abwassertemperatur:

Mittelwert	16.8	°C
20%-Wert	13.9	°C
50%-Wert	16.2	°C
80%-Wert	20.1	°C

Bemerkungen zur Datenauswertung:

