

	Q bio m3 / Tag	Q min l / s	Q max l / s
Mittelwert	14'832		
20%-Wert	10'525	66	362
50%-Wert	12'480	83	446
80%-Wert	18'083	105	533
Q tw 1)	11'502	75	404
2 Q tw			808

1) Mittel aus 20% und 50%-Wert

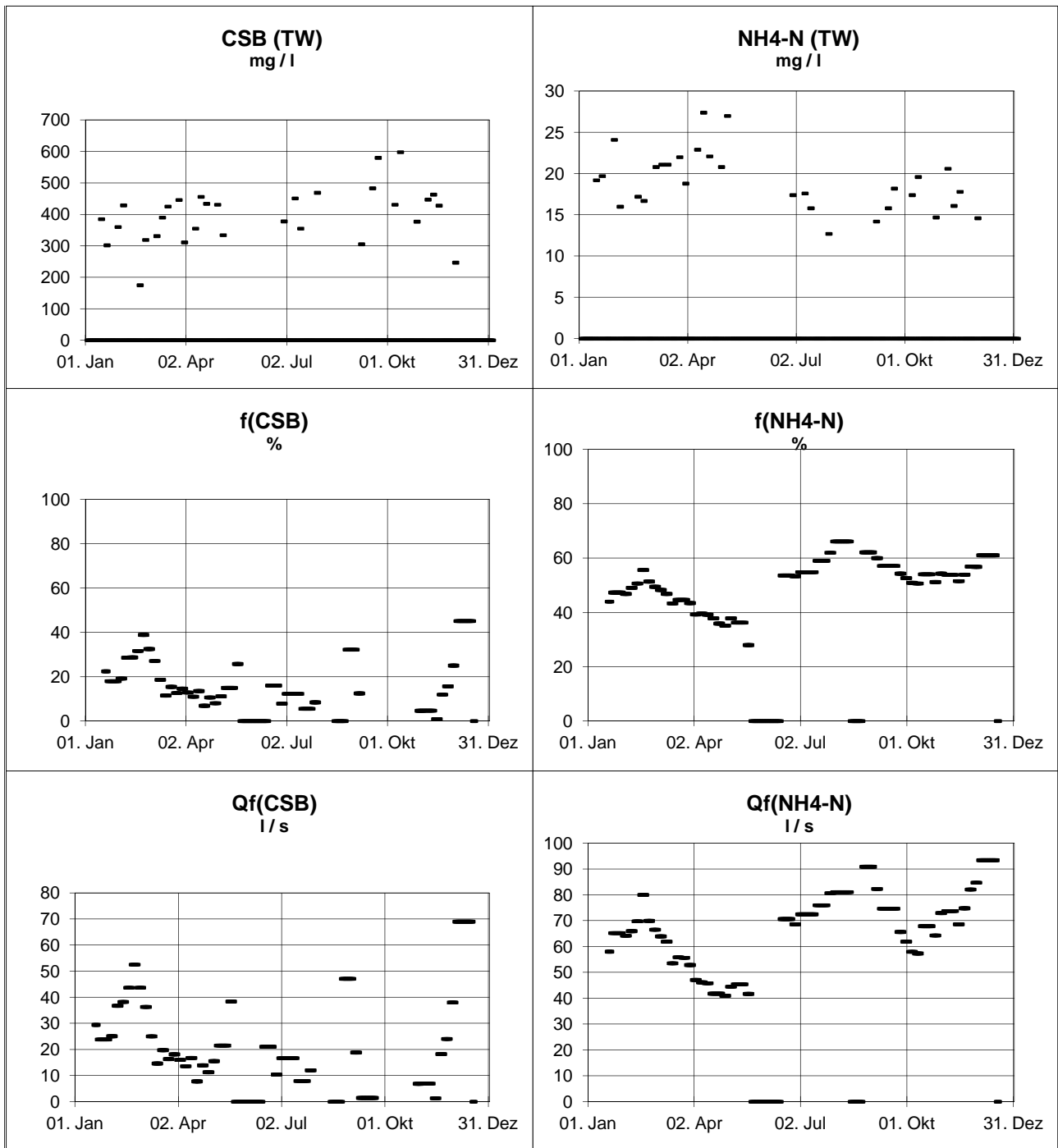
Fremdwasseranteil 29 %

siehe Seite 2

	Tagesmittelwerte	
	m3 / d	l / s
Q tw	11'502	133
Q fremd 2)	3'317	38
Q schmutz 3)	8'186	95

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

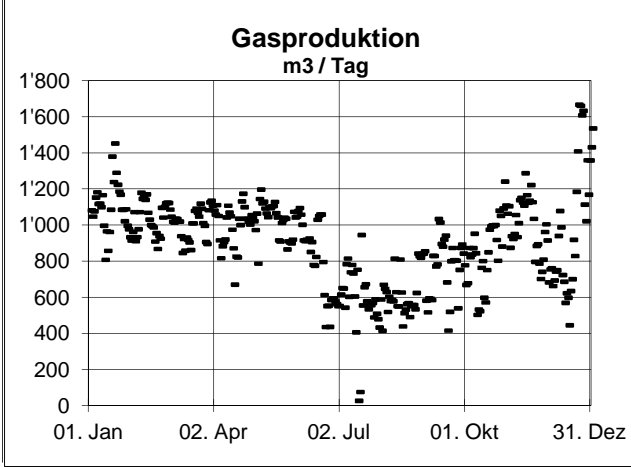
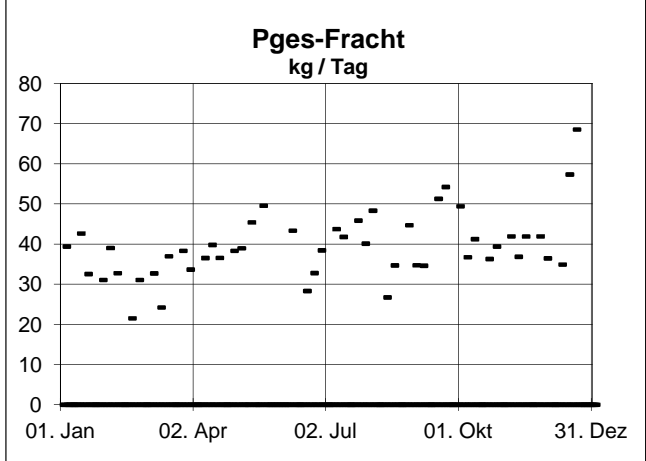
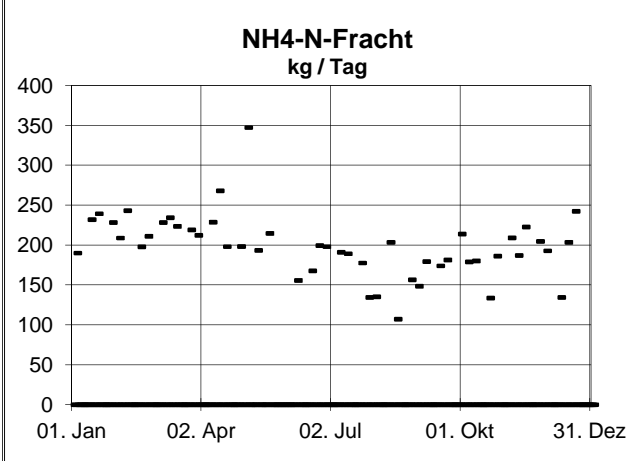
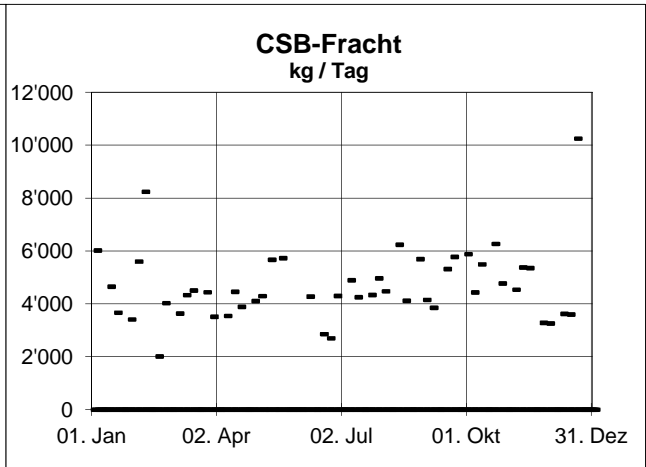
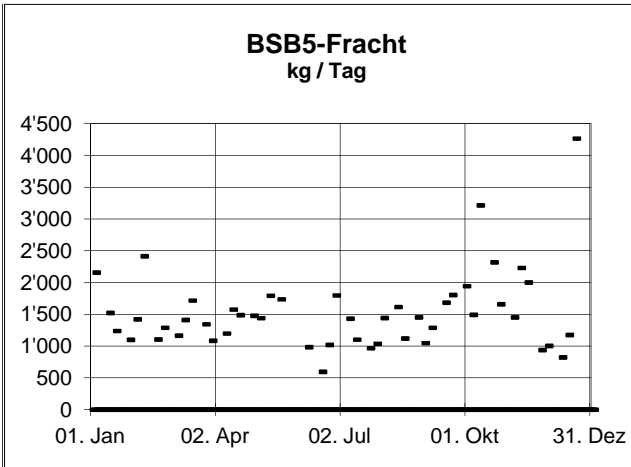
Q tw	11'502	m3 / Tag
Q schmutz (EW) ¹⁾	8'600	m3 / Tag
Q fremd (EW)	2'902	m3 / Tag
f (EW)	25	%

¹⁾ 200 l / EW * Tag

Schätzung aus den Zulaufkonzentrationen:

f(CSB)	Jahresmittel	12	%
f(NH4-N)	Jahresmittel	49	%

f Mittelwert	29	%
f gewählt	29	%

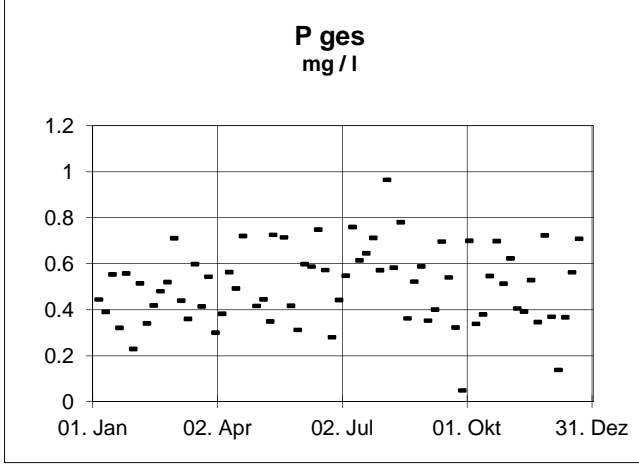
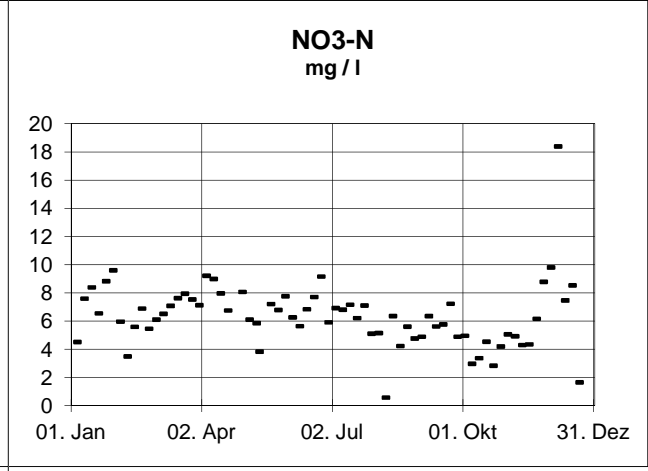
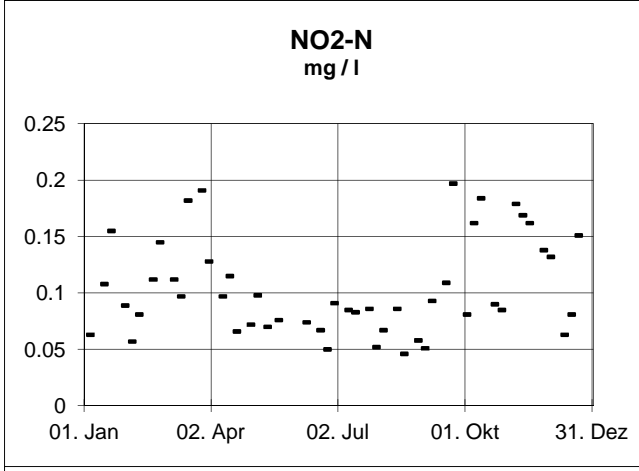
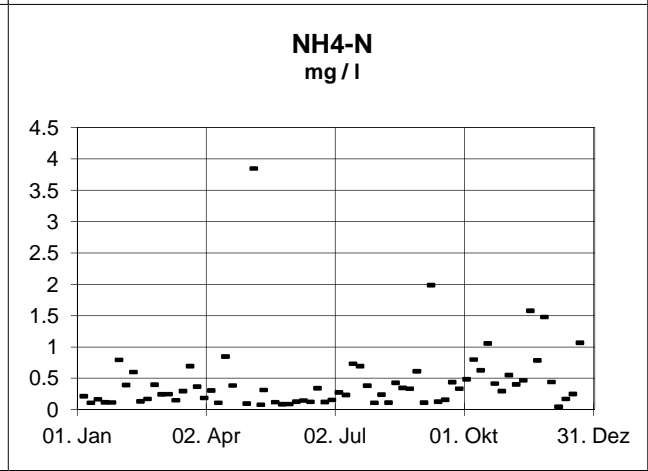
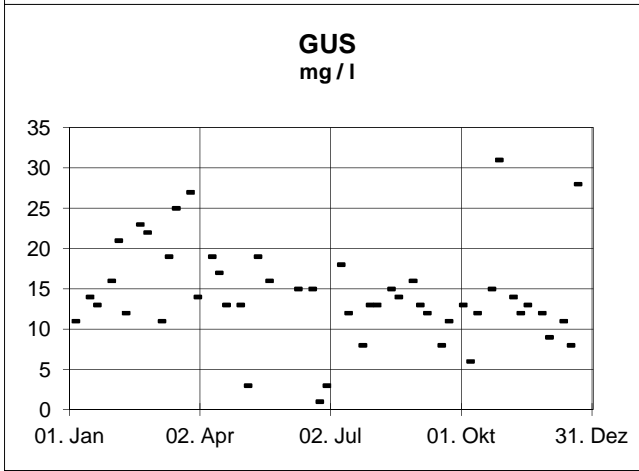
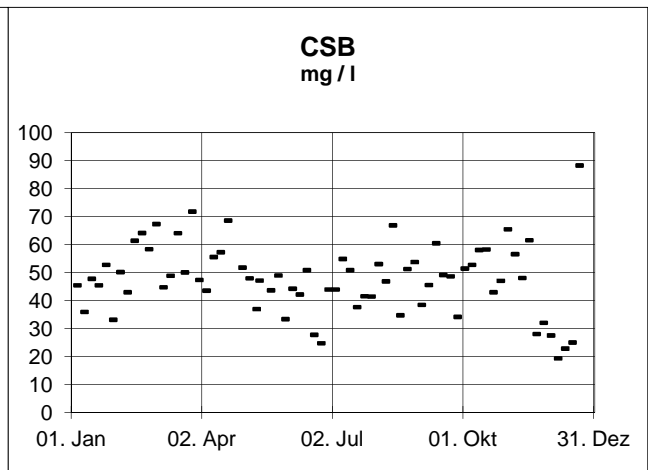
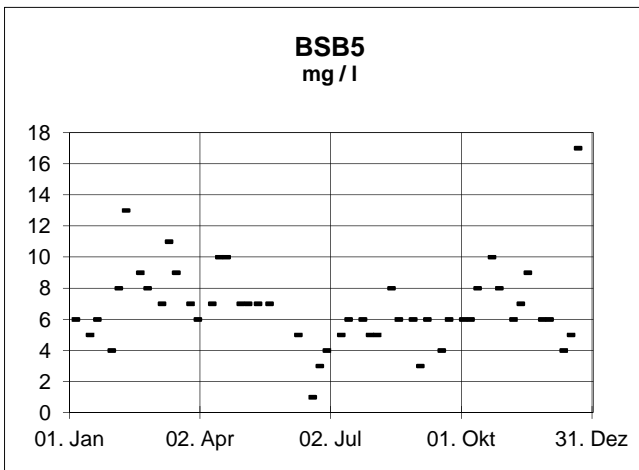


EZ angeschlossen	18'500
EW biochem. gewählt	43'000
EW biochem. 80%-Wert	51'000
EW Stickstoff	26'000
EW Phosphor	25'000

Zulauffrachten	BSB5 kg/Tag	CSB kg/Tag	NH4-N kg/Tag	Pges kg/Tag	Gasp. m3/Tag	FS kg/Tag
Mittelwert	1'523	4'657	198	39	898	3'081
50%-Wert	1'441	4'436	198	38	921	
80%-Wert	1'796	5'631	226	44	1'085	

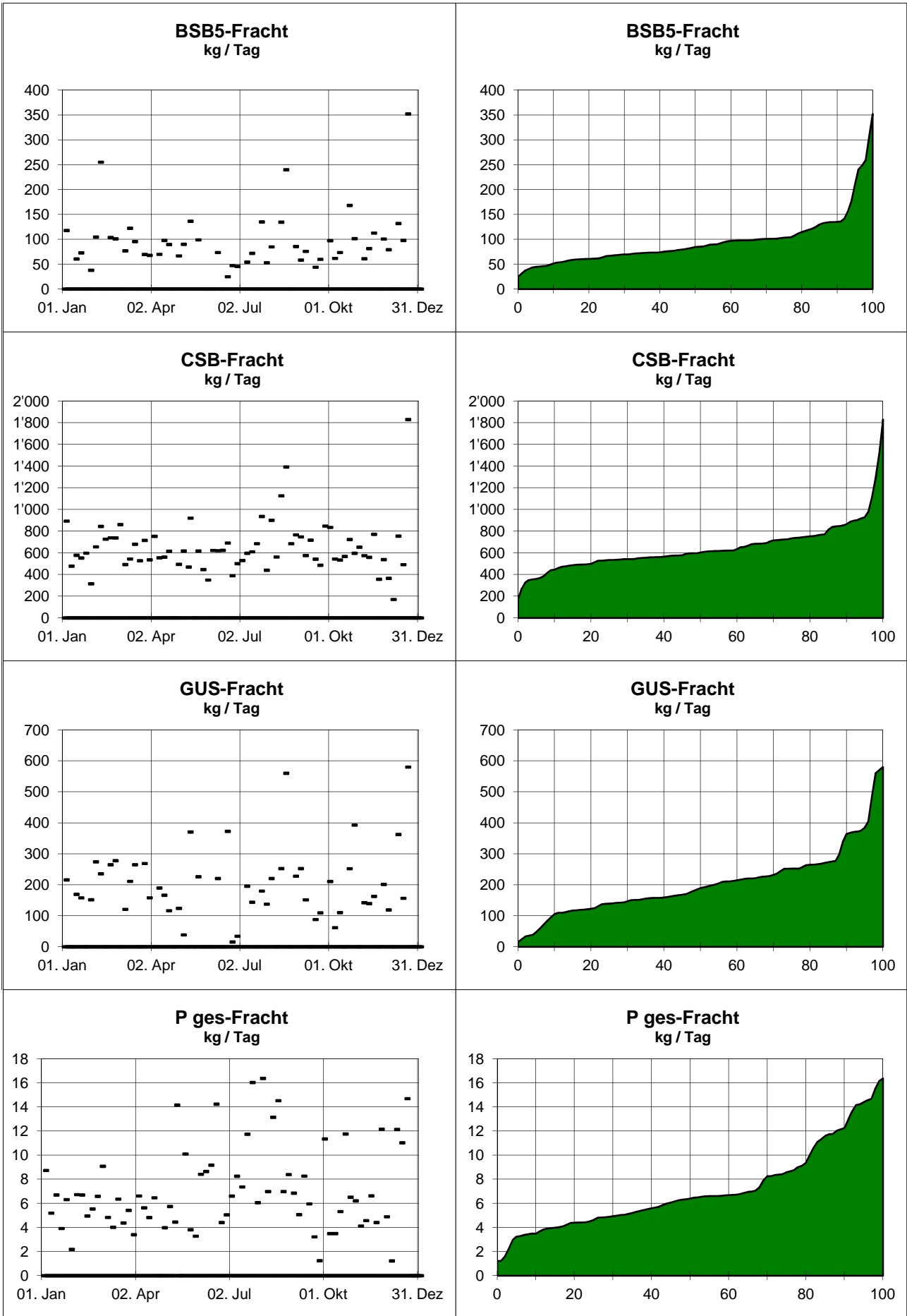
spezifische Belastung pro EW	g / Tag	g / Tag	g / Tag	g / Tag	Probenahmeort: ab VKB	I / Tag	g / Tag
	45	90	7.5	1.6		30	85

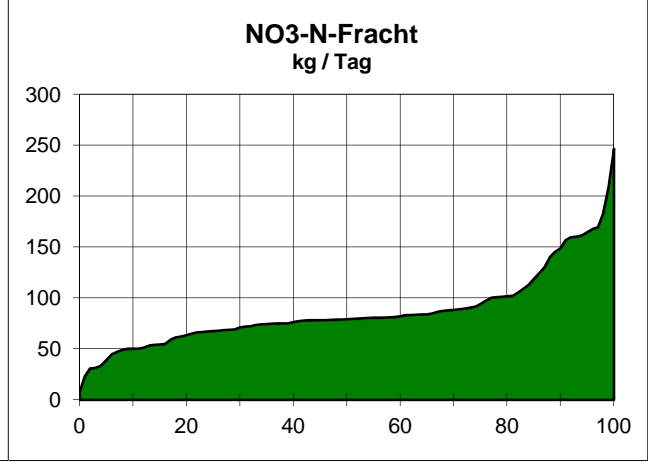
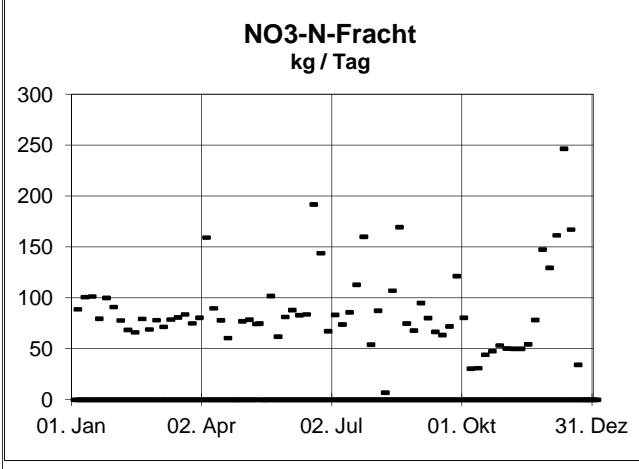
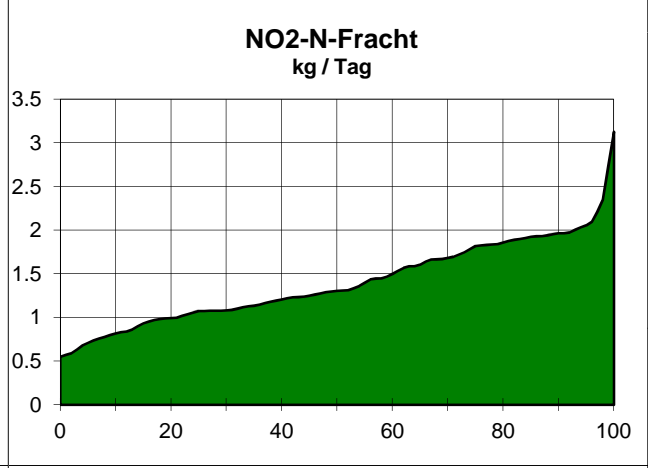
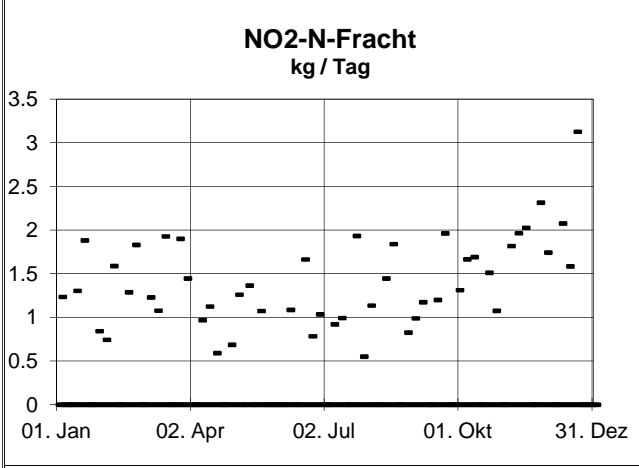
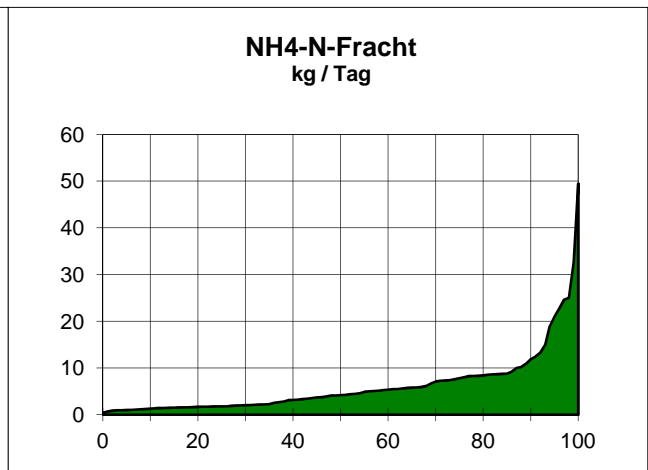
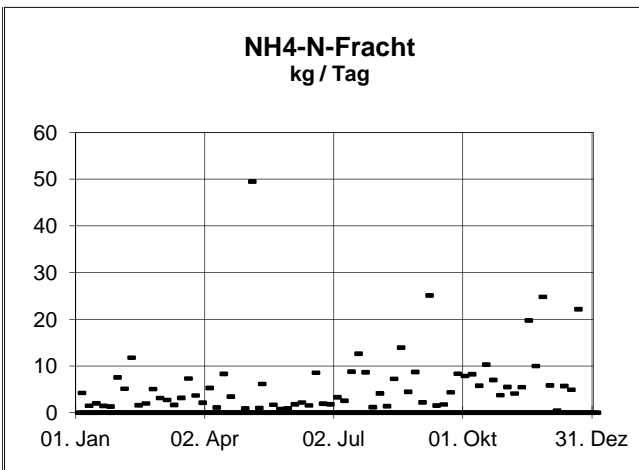
Einwohnerwerte	BSB5 EW	CSB EW	NH4-N EW	Pges EW	Mittelwerte EW	Gasp. EW	FS EW
Mittelwert	33'836	51'746	26'416	24'598	34'149	29'919	36'246
50%-Wert	32'017	49'287	26'414	24'049	32'942	30'700	
80%-Wert	39'903	62'566	30'075	27'588	40'033	36'173	



Angaben in mg/l	Mittelwert	90%-Wert	Grenzwert ¹⁾
BSB5	6.8	10.0	15
CSB	47.7	64.1	
GUS	14.3	22.2	15
NH4-N	0.4	0.8	2
NO2-N	0.1	0.2	0.3
NO3-N	6.4	8.8	
P ges	0.50	0.72	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	97	85	115	89
CSB	647	603	753	627
GUS	205	190	265	196
NH4-N	6.2	4.2	8.4	5.1
NO2-N	1.4	1.3	1.9	1.4
NO3-N	87.3	79.1	101.6	84.6
P ges	7.1	6.4	9.4	6.9

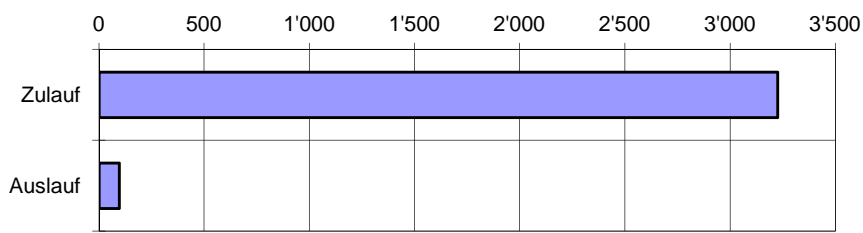
Abbauleistungen:

	EW gewählt	Spez. B. g / EW	Zulauf kg / Tag	Auslauf kg / Tag	Abbau %	Nitrifika- tion %
BSB5	43'000	75	3'225	97	97	
CSB	43'000	140	6'020	647	89	
N ges				116.5	63	
N Kjel	26'000	12	312.0	27.8		91
NH4-N		7	182.0	6.2		
NO2-N				1.4		
NO3-N				87.3		
N org		5	130.0	21.6		
Pges	25'000	2	50.0	7.1	86	

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

CSB / 30

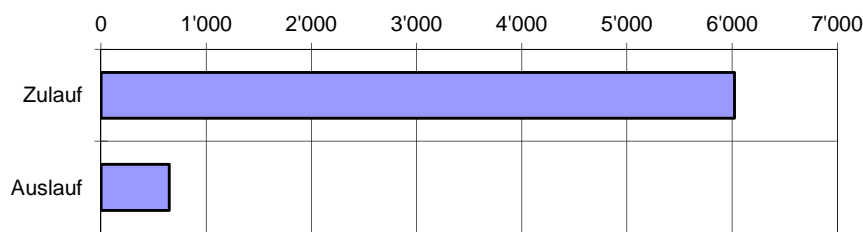
BSB5-Frachten in kg / Tag



BSB5- Abbau

3'128	kg / Tag
97	%
85	%

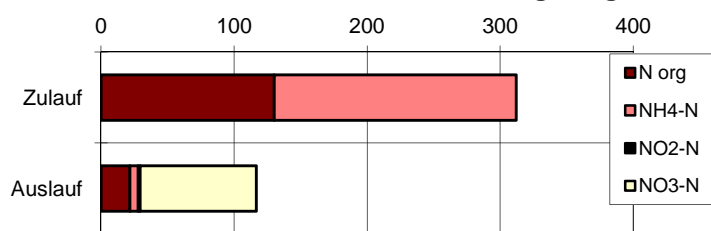
CSB-Frachten in kg / Tag



CSB-Abbau

5'373	kg / Tag
89	%
0	%

Stickstoff-Frachten in kg / Tag



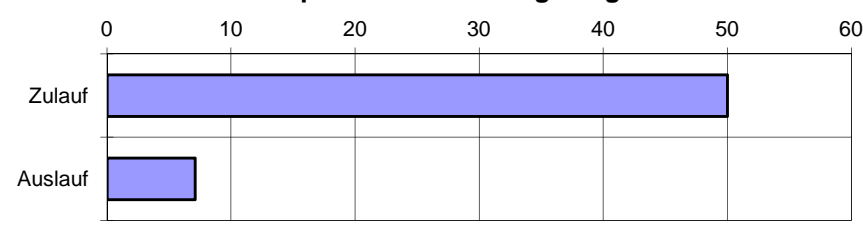
N-Elimination

195	kg / Tag
63	%
30	%

Nitrifikation

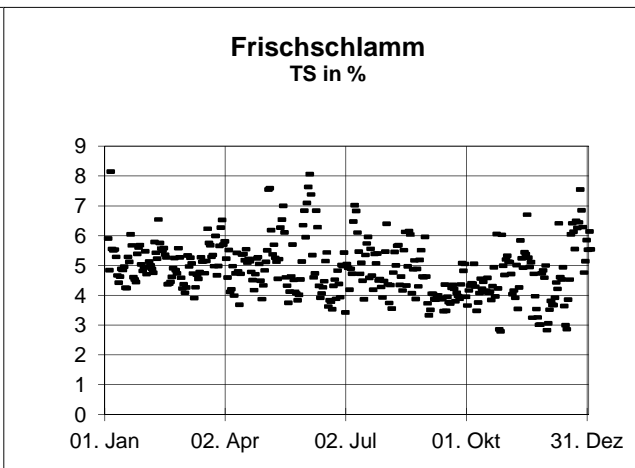
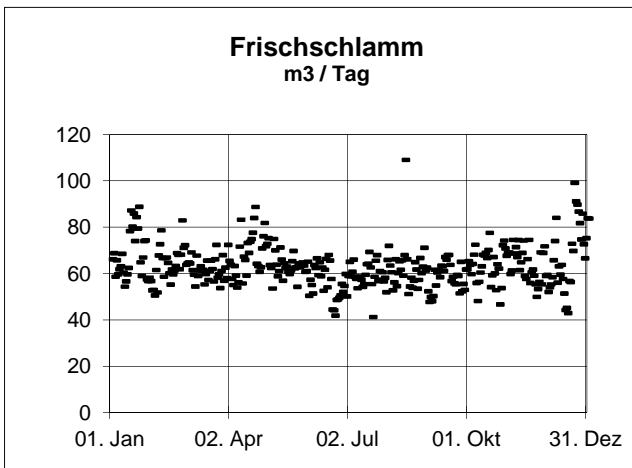
284	kg / Tag
91	%
90	%

Phosphor-Frachten in kg / Tag



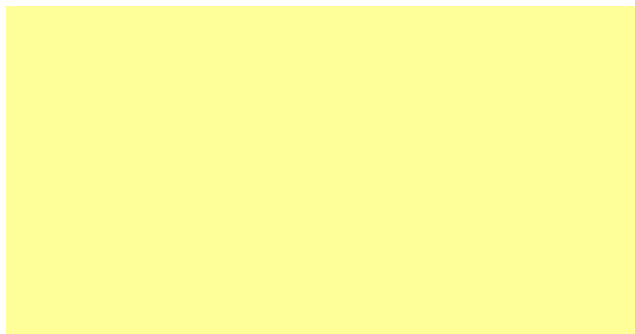
P-Elimination

43	kg / Tag
86	%
80	%



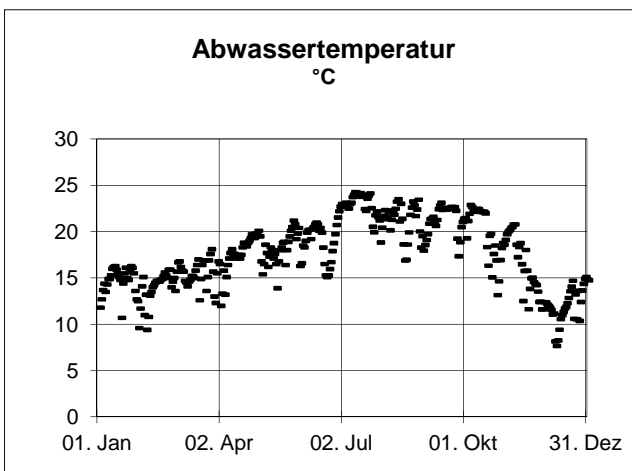
Frishschlammfall: Mittelwerte

Frishschl. nass	63.1	m3/Tag
TS-Anteil	4.9	%
Frishschl. in TS	3'081	kg/Tag



Jahresanfall

Frishschl. in TS	1'125	t/ Jahr
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Abwassertemperatur:

Mittelwert	17.7	°C
20%-Wert	14.5	°C
50%-Wert	17.6	°C
80%-Wert	21.5	°C

Bemerkungen zur Datenauswertung:

