

	Q bio m ³ / Tag	Q min l / s	Q max l / s
Mittelwert	15'071		
20%-Wert	9'029	65	282
50%-Wert	11'288	84	341
80%-Wert	20'354	121	493
Q tw 1)	10'158	75	311
2 Q tw			623

1) Mittel aus 20% und 50%-Wert

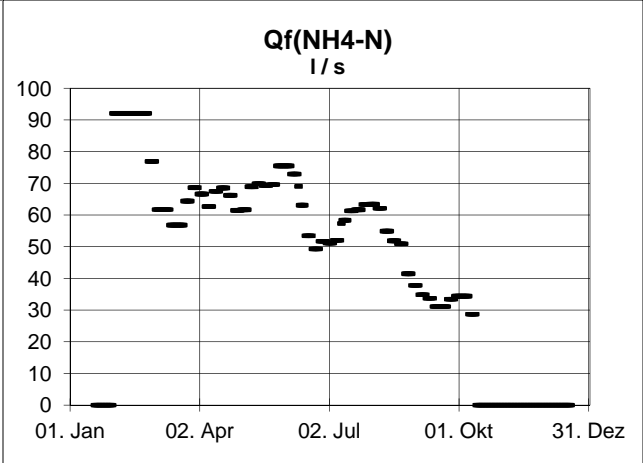
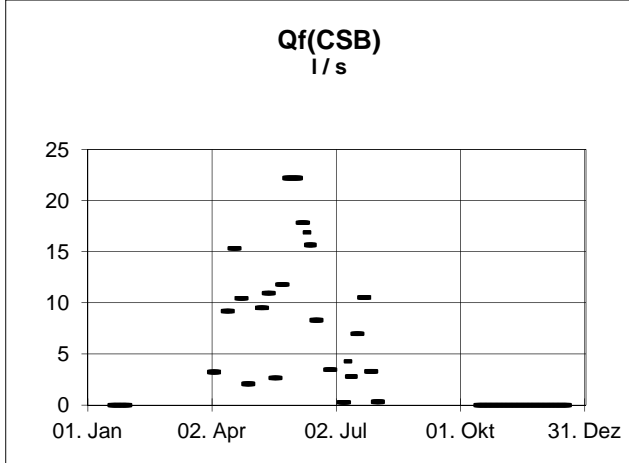
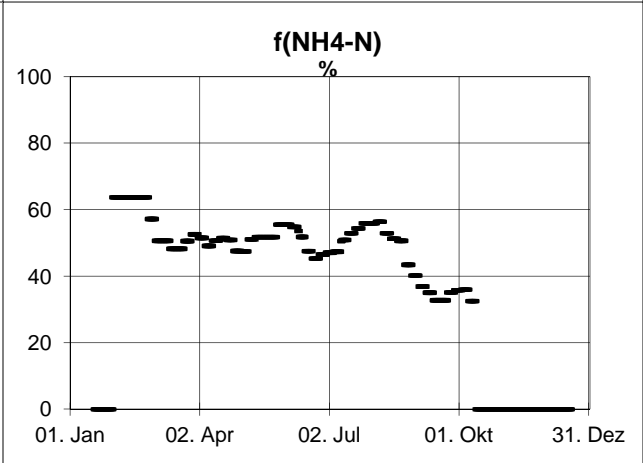
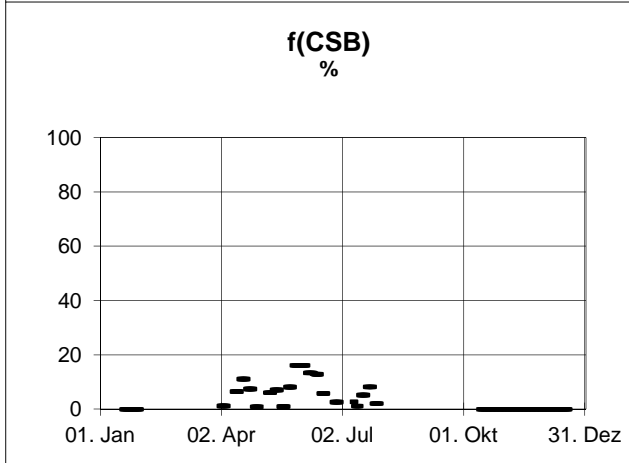
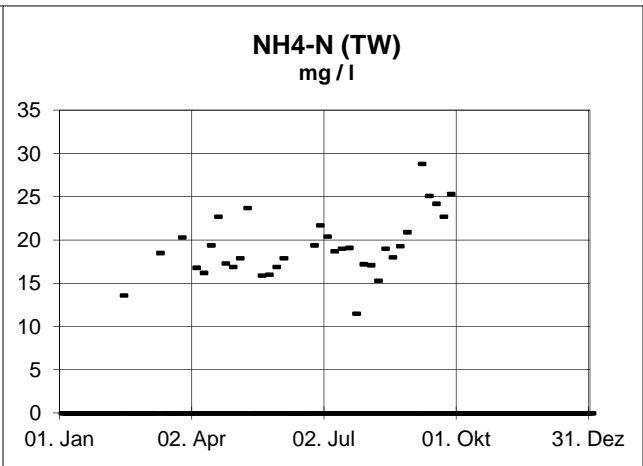
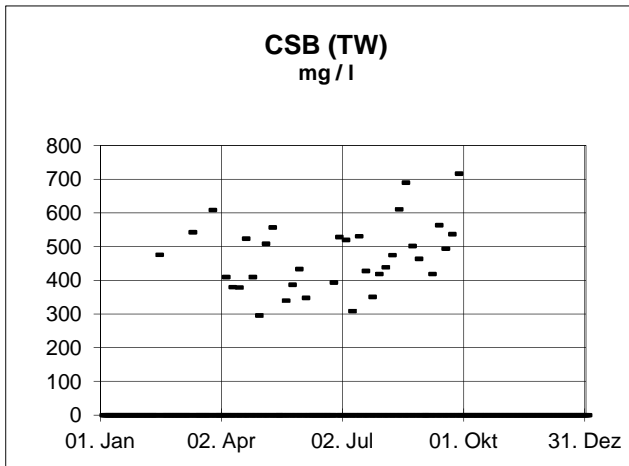
Fremdwasseranteil 11 %

siehe Seite 2

	Tagesmittelwerte	
	m³ / d	l / s
Q tw	10'158	118
Q fremd ²⁾	1'152	13
Q schmutz ³⁾	9'007	104

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

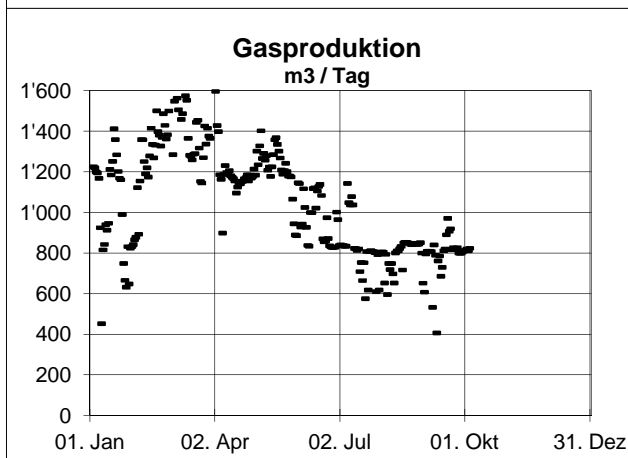
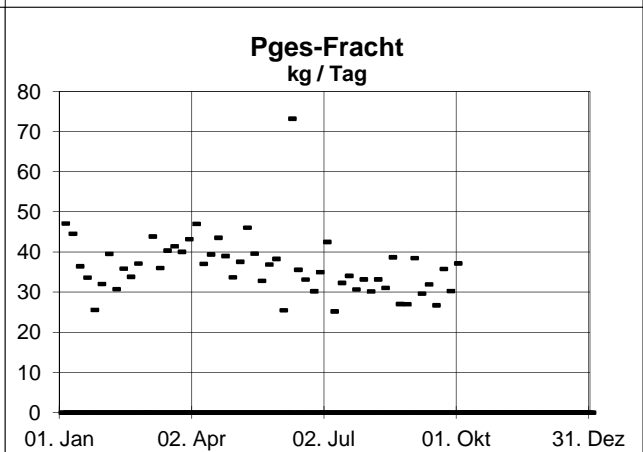
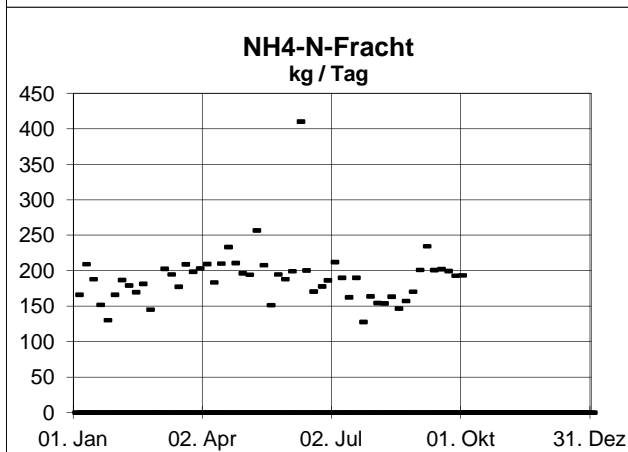
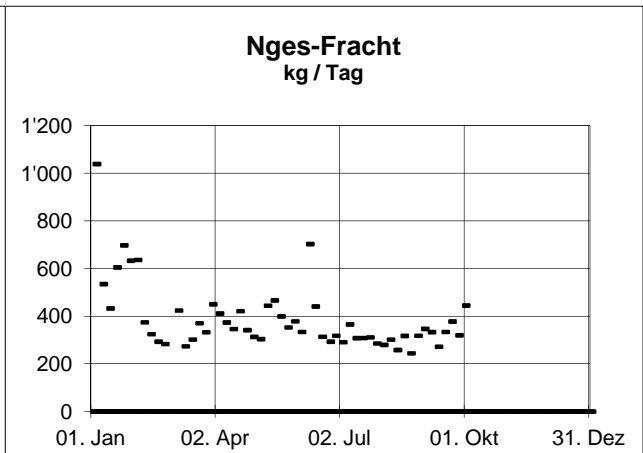
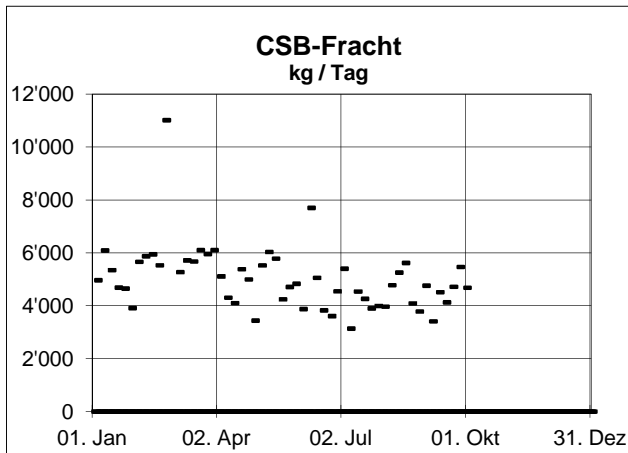
Q tw	10'158 m3 / Tag
Q schmutz (EW) ¹⁾	11'200 m3 / Tag
Q fremd (EW)	-1'042 m3 / Tag
f (EW)	-10 %

¹⁾ 200 l / EW * Tag

Schätzung aus den Zulaufkonzentrationen:

f(CSB) Jahresmittel	-5 %
f(NH4-N) Jahresmittel	49 %

f Mittelwert	11 %
f gewählt	11 %

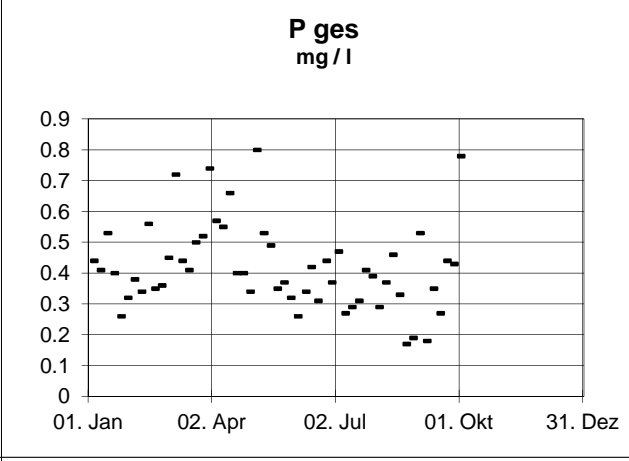
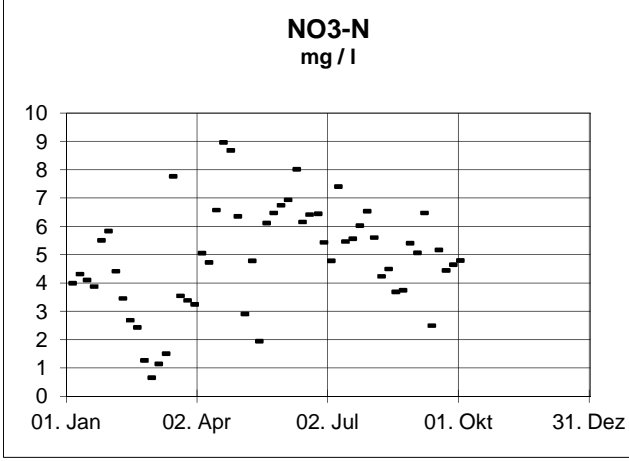
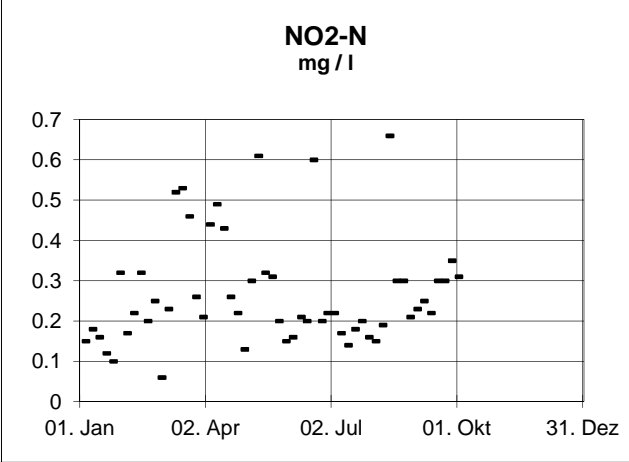
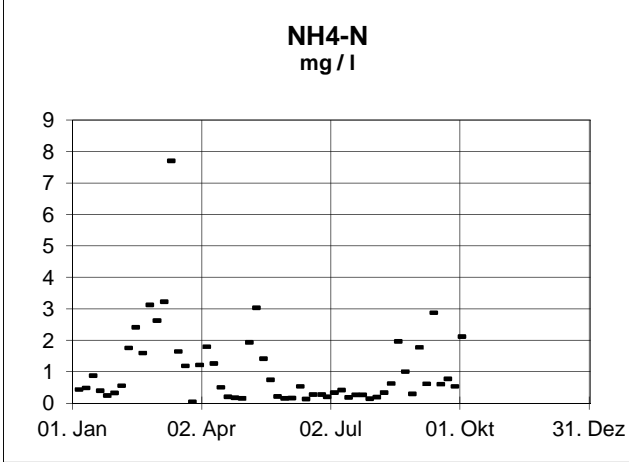
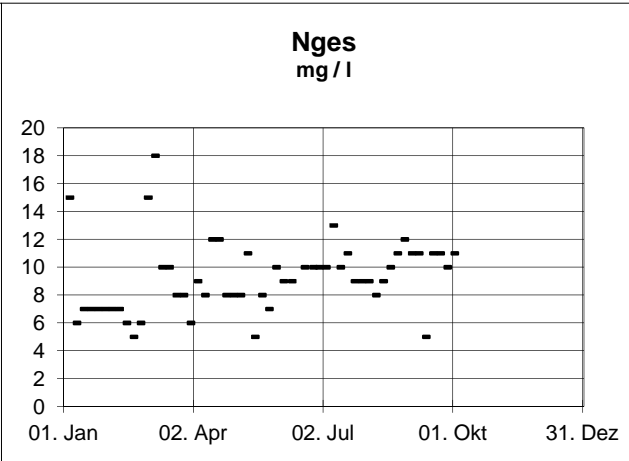
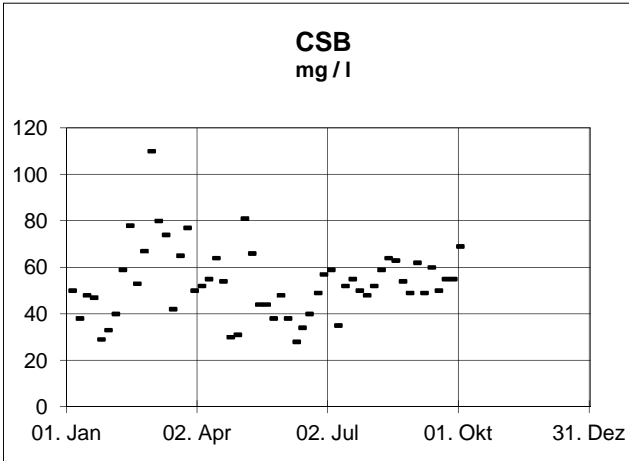


EZ angeschlossen	20'000
EW biochem. gewählt	56'000
EW biochem. 80%-Wert	63'000
EW Stickstoff	25'000
EW Phosphor	23'000

<u>Zulauffrachten</u>	BSB5 kg/Tag	CSB kg/Tag	NH4-N kg/Tag	Pges kg/Tag	Gasp. m3/Tag	FS kg/Tag
Mittelwert		5'003	190	36	1'051	2'669
50%-Wert		4'807	190	36	1'048	
80%-Wert		5'695	205	40	1'285	

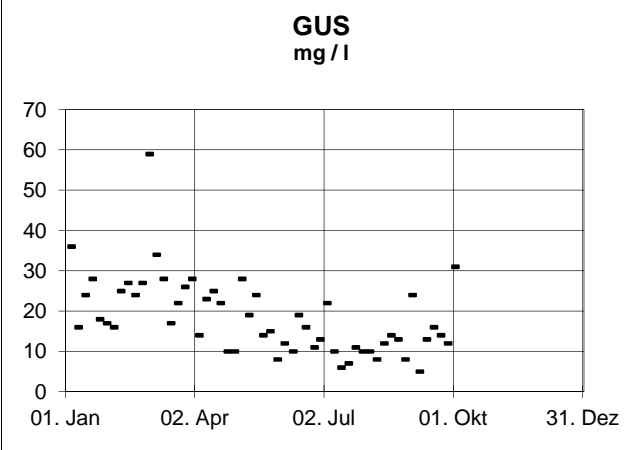
spezifische Belastung pro EW	g / Tag	g / Tag	g / Tag	g / Tag	Probenahmeort: ab VKB	l / Tag	g / Tag
	45	90	7.5	1.6		30	85

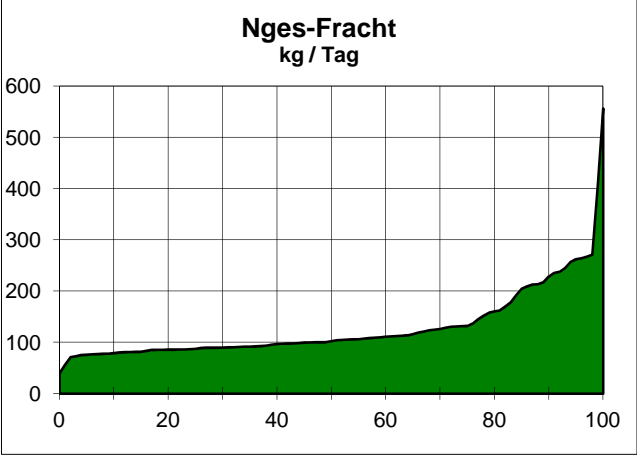
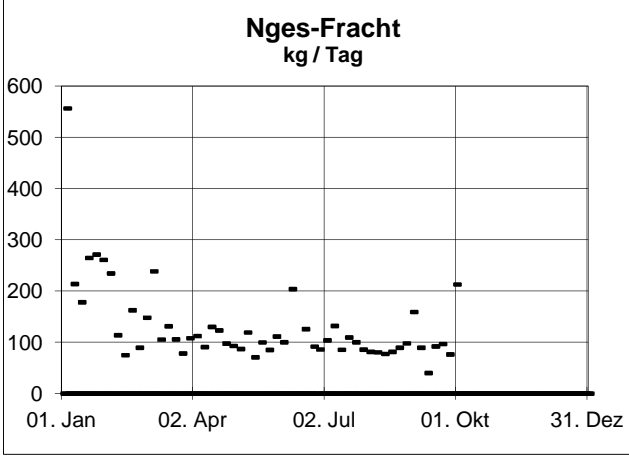
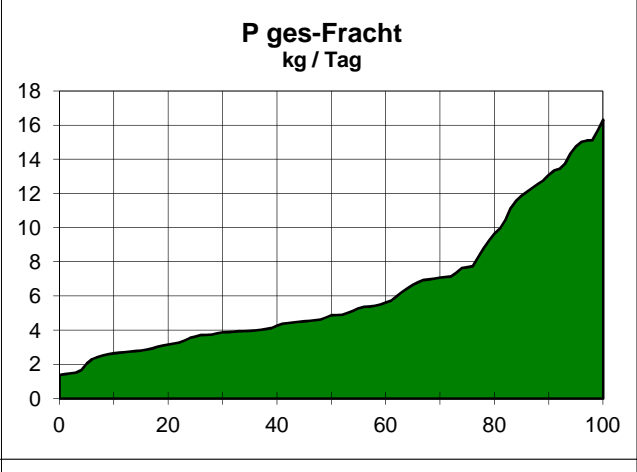
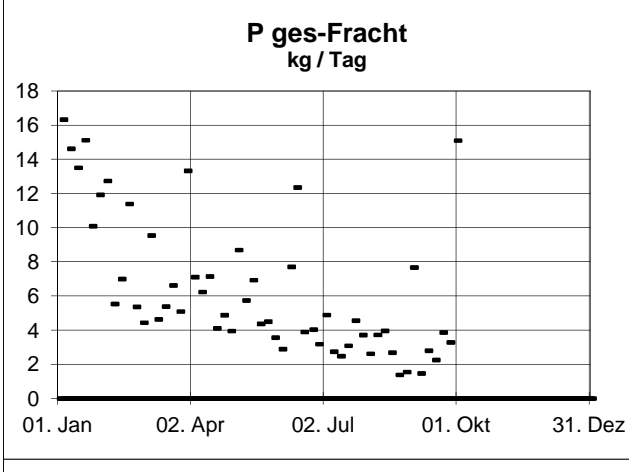
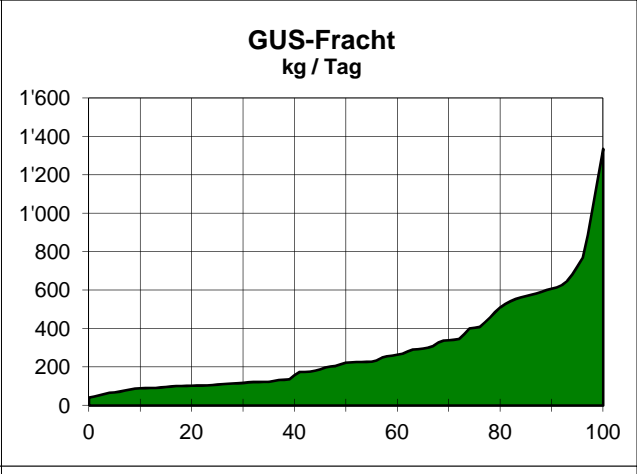
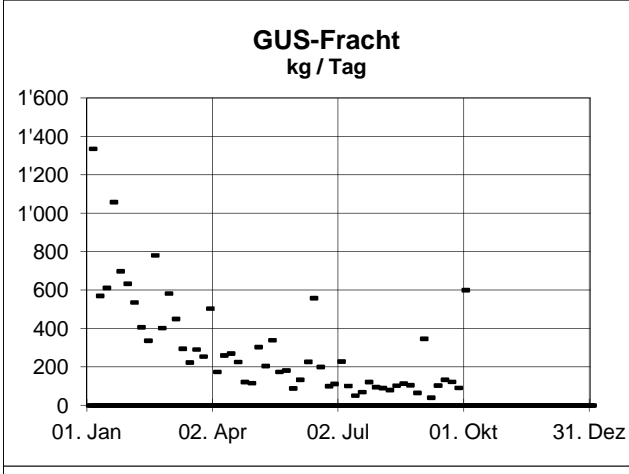
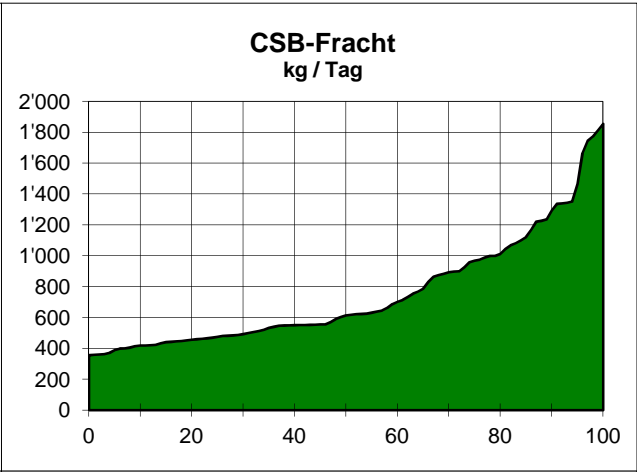
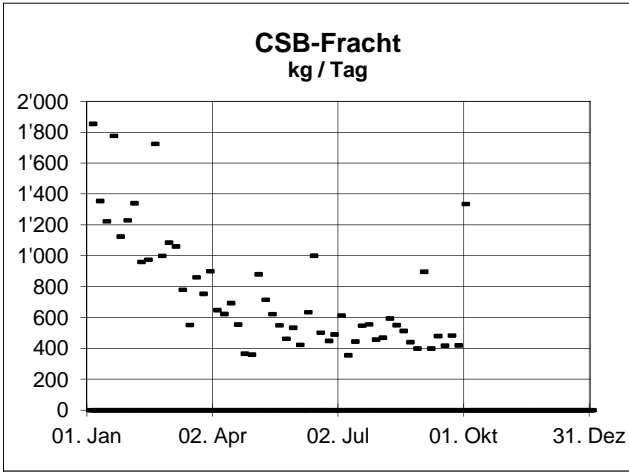
<u>Einwohnerwerte</u>	BSB5 EW	CSB EW	NH4-N EW	Pges EW	Mittelwerte EW	Gasp. EW	FS EW
Mittelwert		55'590	25'344	22'695	34'543	35'045	31'397
50%-Wert		53'408	25'359	22'390	33'719	34'933	
80%-Wert		63'282	27'368	25'107	38'585	42'833	

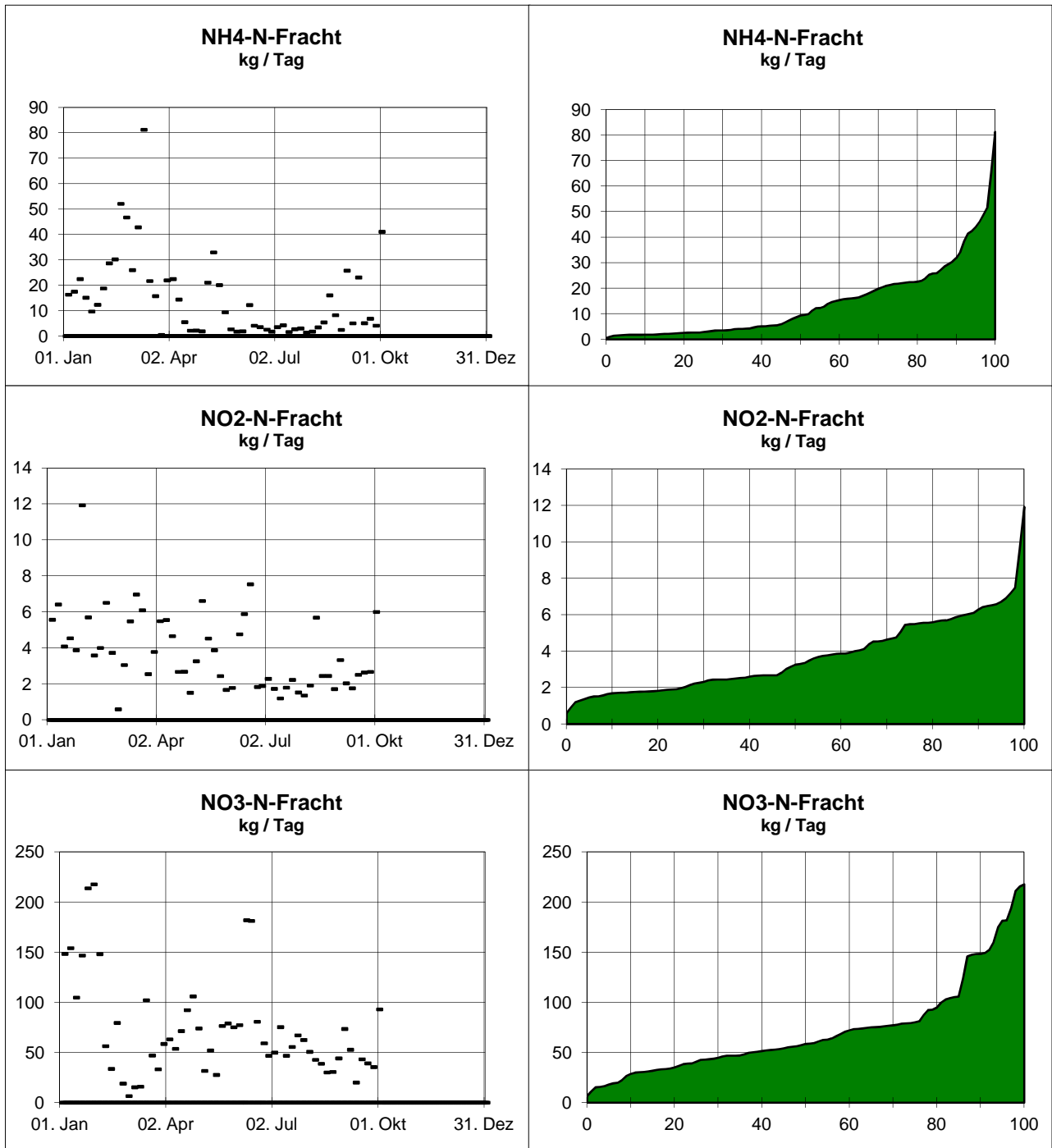


Angaben in mg/l	Mittelwert	90%-Wert	Grenzwert ¹⁾
BSB5			15
CSB	53.3	72.0	
GUS	18.4	28.0	15
NH4-N	1.1	2.5	2
NO2-N²⁾	0.3	0.5	0.3
NO3-N	4.9	6.9	
P ges	0.42	0.57	0.8

¹⁾ nach GSchV vom 28. Oktober 1998
²⁾ Richtwert





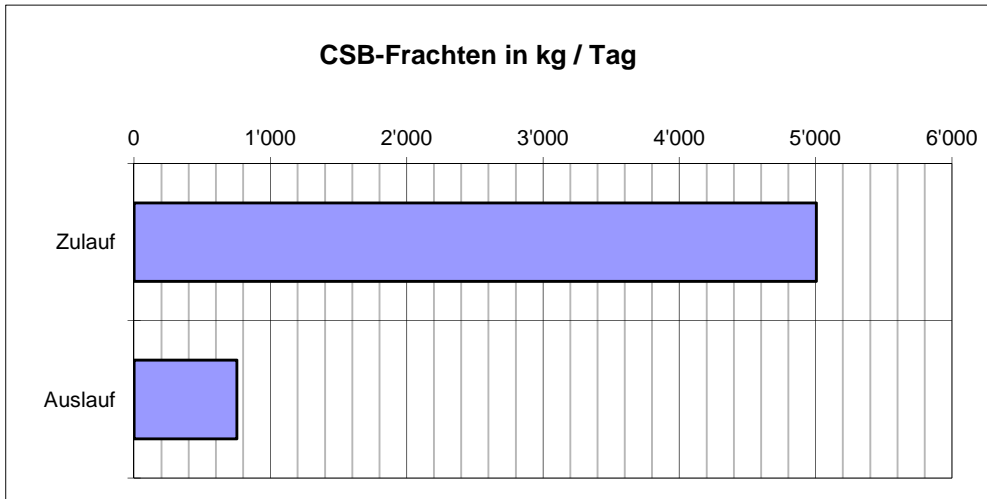


Auslauffrachten:

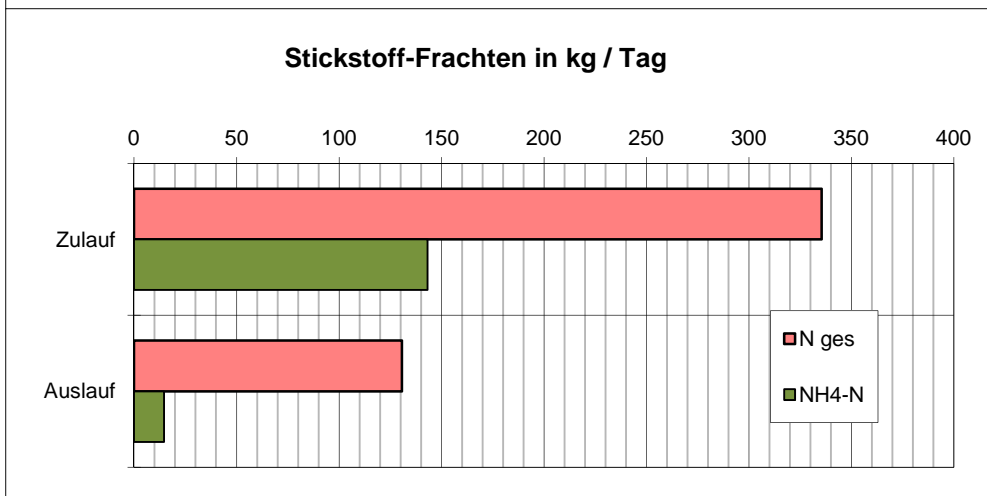
Angaben in kg/Tag	Mittel- wert	50%- Wert	80%- Wert	Mittel 5 - 95 %
CSB	754	614	1'012	716
GUS	299	223	511	268
N ges				
NH4-N	14.7	9.4	22.6	12.8
NO2-N	3.7	3.3	5.6	3.6
NO3-N	72.4	58.5	94.8	68.0
P ges	6.3	4.9	9.7	6.1

Abbauleistungen:

	Zulauf kg / Tag	Auslauf kg / Tag	Abbau	Grenz- wert
CSB	5'003	754	85%	80%
N ges	335.5	130.7	61%	30%
NH4-N	143.1	14.7	90%	90%
Pges	36.3	6.3	83%	80%

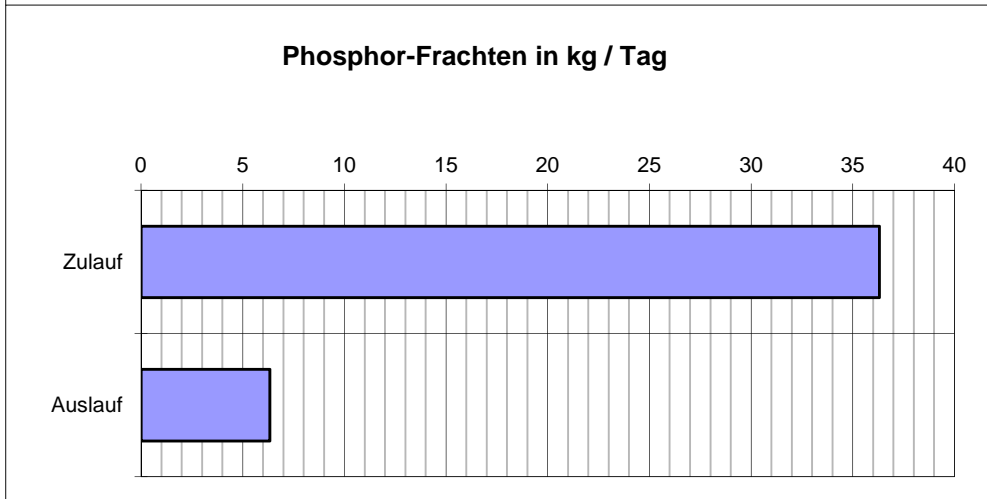


CSB-Abbau	
4'250 kg / Tag	
85%	
80%	
Richtwert	

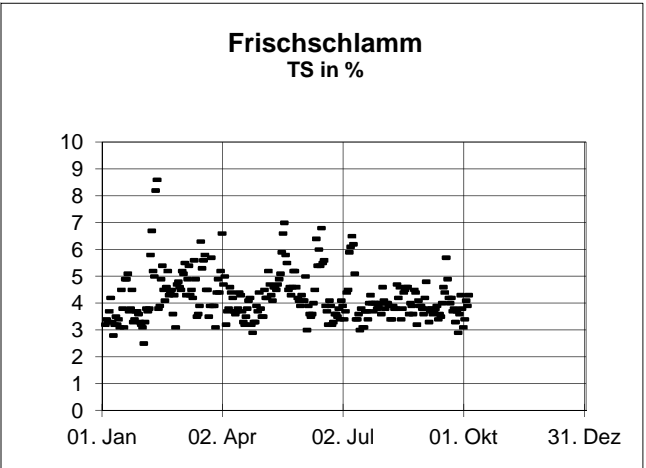
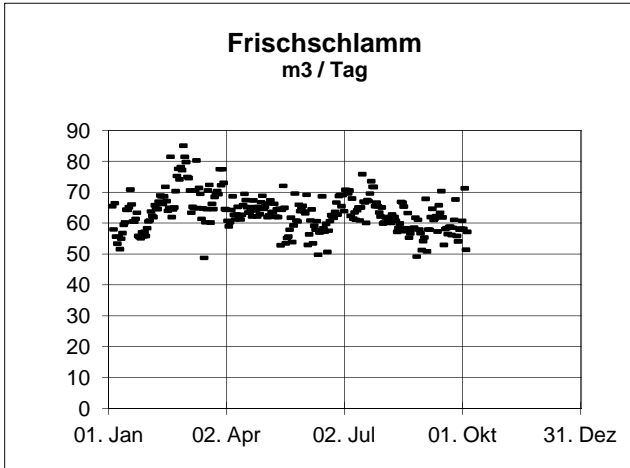


N-Elimination	
205 kg / Tag	
61%	
30%	

Nitrifikation	
128 kg / Tag	
90%	
90%	



P-Elimination	
30 kg / Tag	
83%	
80%	

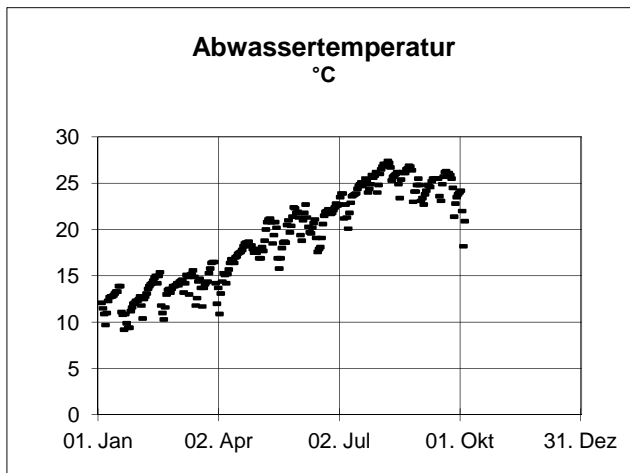


Frishschlammmanfall: Mittelwerte

Frishschl. nass	63.4	m3/Tag
TS-Anteil	4.2	%
Frishschl. in TS	2'669	kg/Tag

Jahresanfall

Frishschl. in TS	974	t/ Jahr
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Abwassertemperatur:

Mittelwert	19.1	°C
20%-Wert	13.9	°C
50%-Wert	19.1	°C
80%-Wert	24.7	°C

Bemerkungen zur Datenauswertung: