

	Q bio m ³ / Tag	Q min l / s	Q max l / s
Mittelwert	14'274		
20%-Wert	8'398	60	277
50%-Wert	10'640	76	339
80%-Wert	18'832	114	482
Q tw 1)	9'519	68	308
2 Q tw			616

1) Mittel aus 20% und 50%-Wert

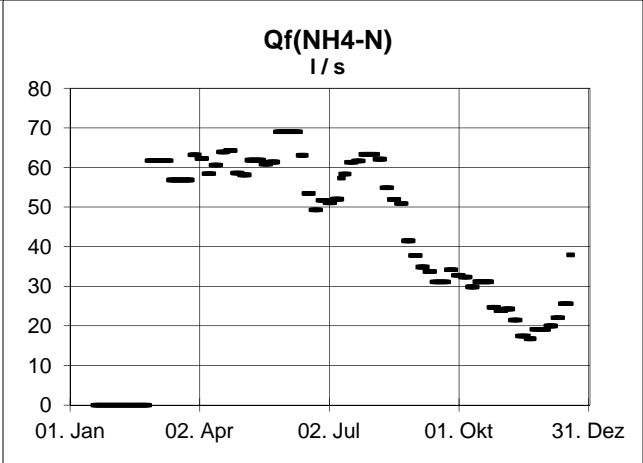
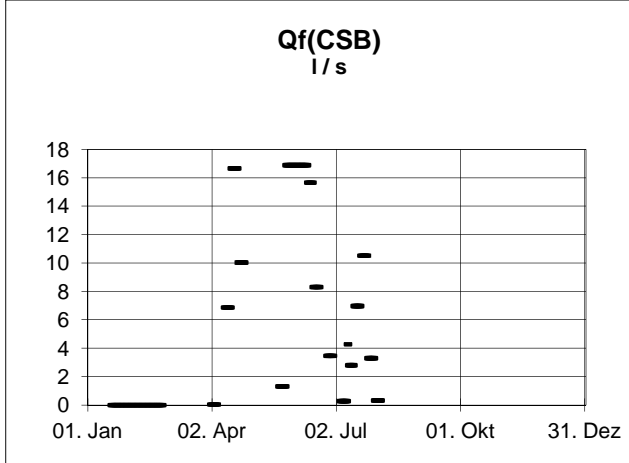
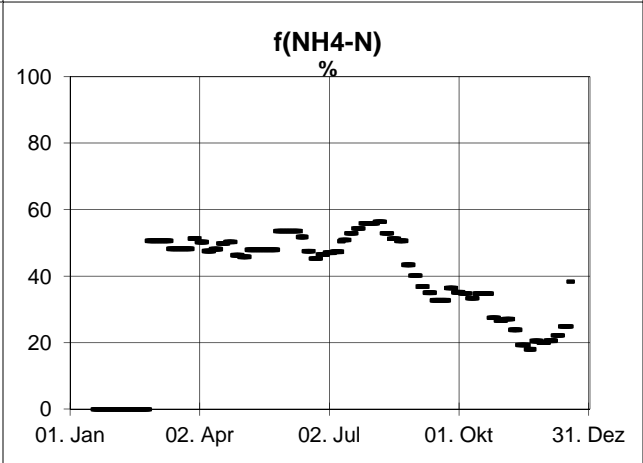
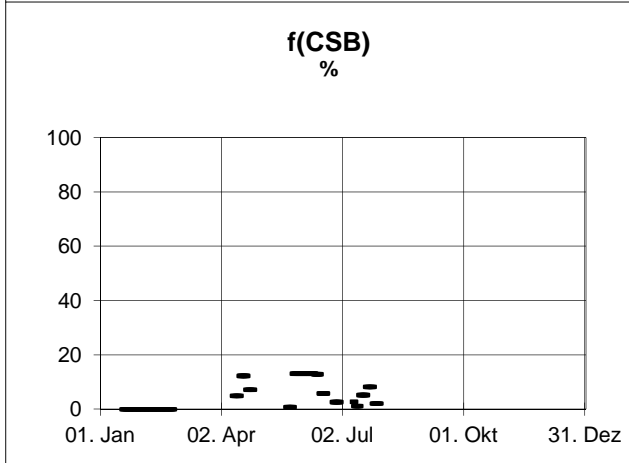
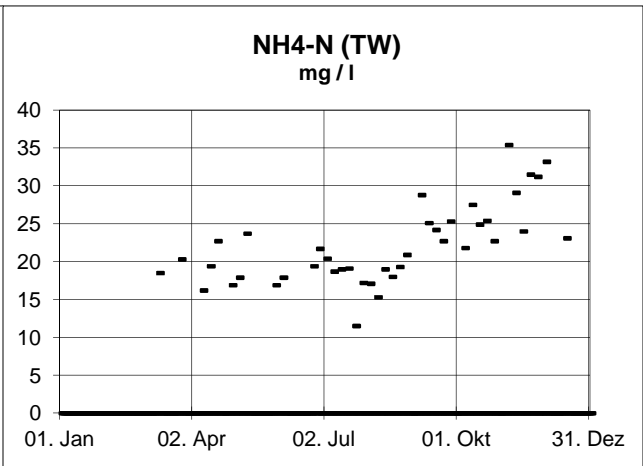
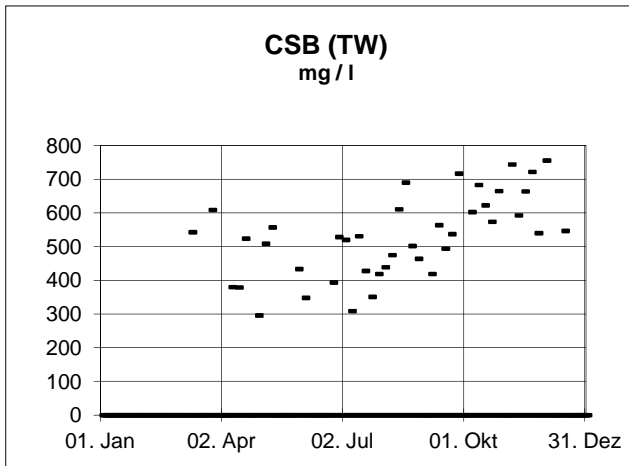
Fremdwasseranteil 1 %

siehe Seite 2

	Tagesmittelwerte	
	m³ / d	l / s
Q tw	9'519	110
Q fremd ²⁾	126	1
Q schmutz ³⁾	9'393	109

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

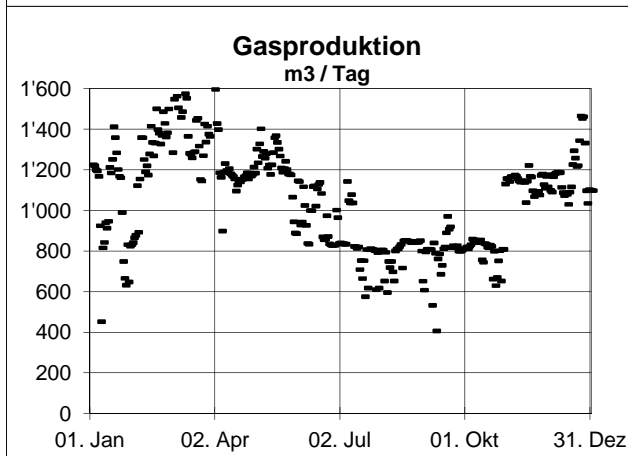
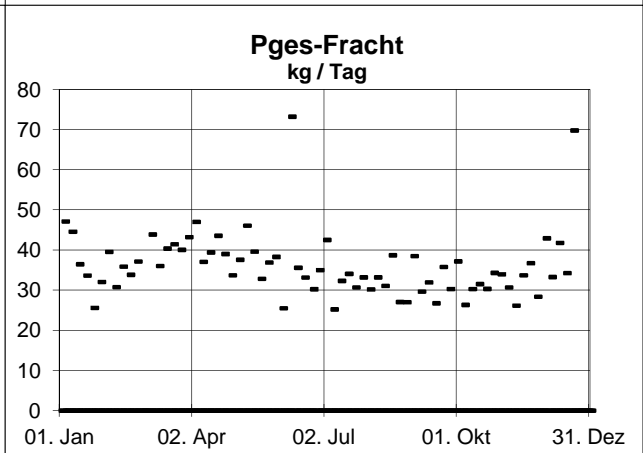
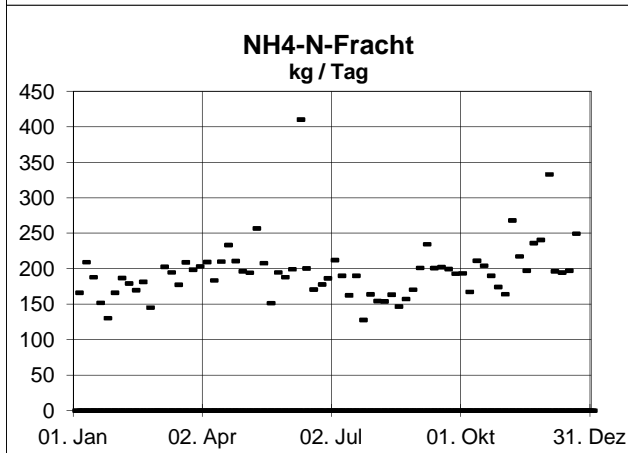
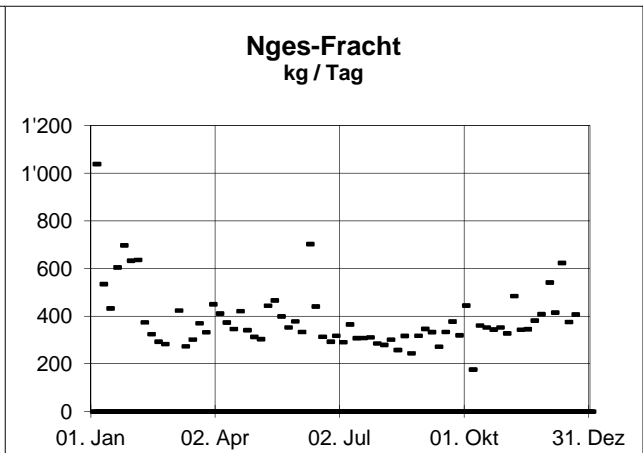
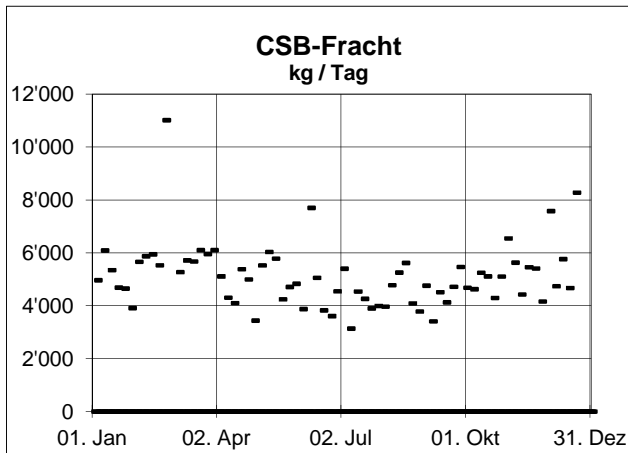
Q tw	9'519 m ³ / Tag
Q schmutz (EW) ¹⁾	11'400 m ³ / Tag
Q fremd (EW)	-1'881 m ³ / Tag
f (EW)	-20 %

¹⁾ 200 l / EW * Tag

Schätzung aus den Zulaufkonzentrationen:

f(CSB) Jahresmittel	-18 %
f(NH4-N) Jahresmittel	41 %

f Mittelwert	1 %
f gewählt	1 %

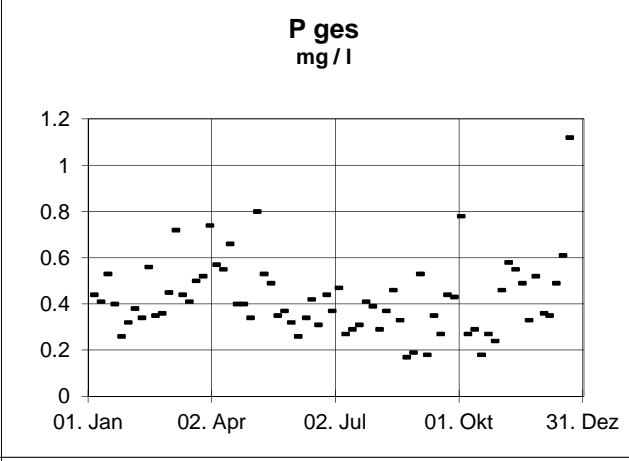
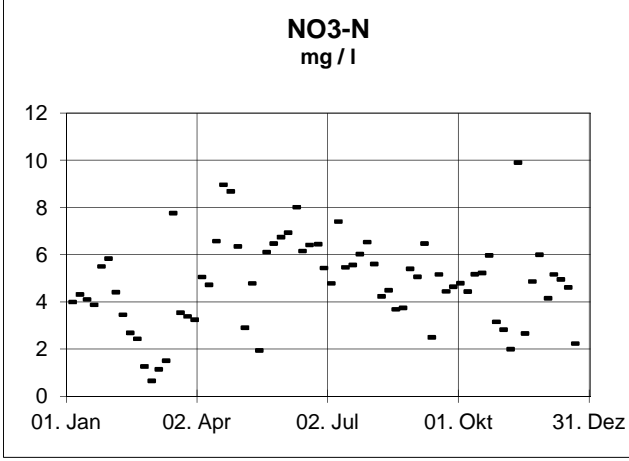
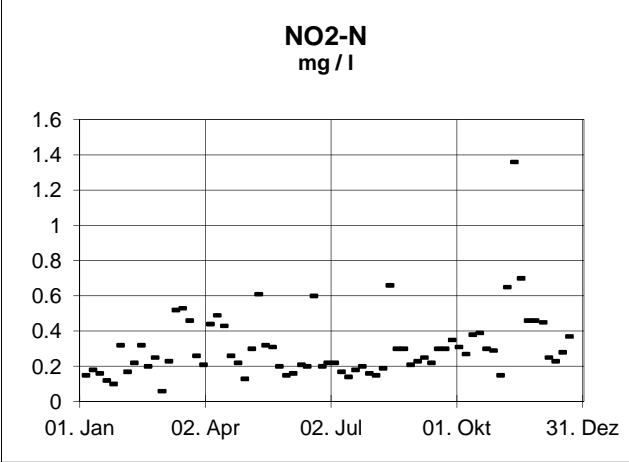
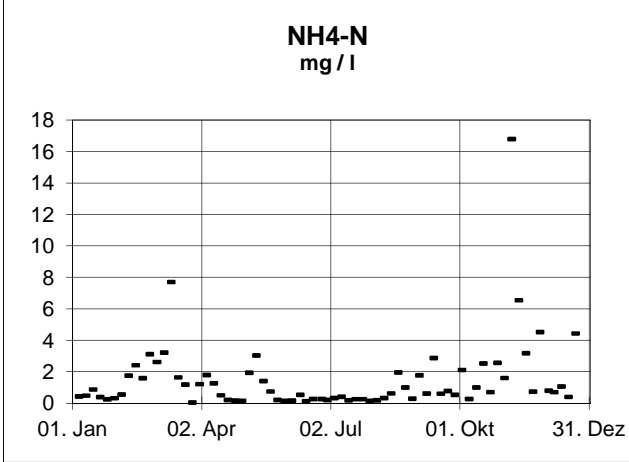
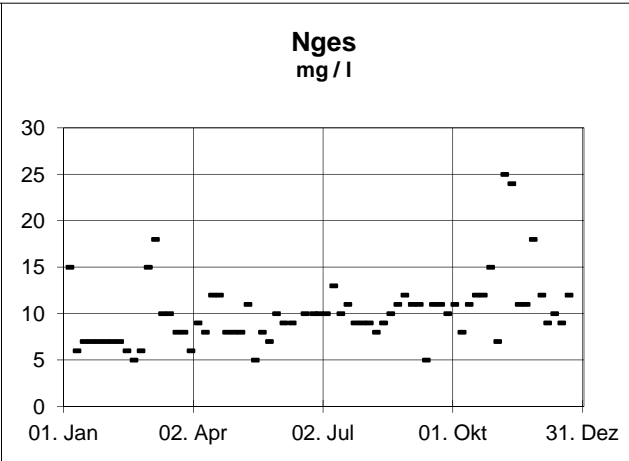
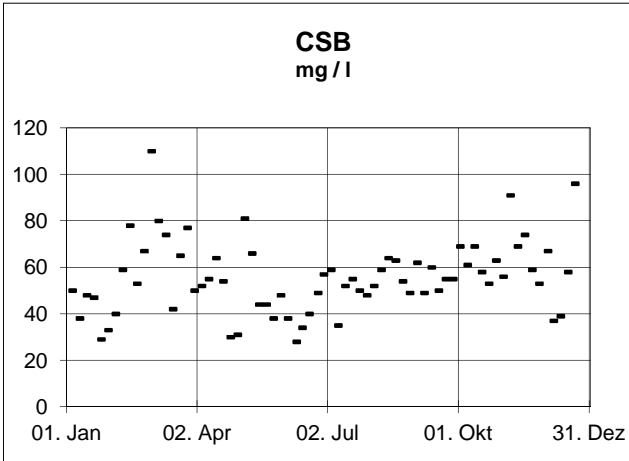


EZ angeschlossen	20'000
EW biochem. gewählt	57'000
EW biochem. 80%-Wert	50'000
EW Stickstoff	26'000
EW Phosphor	23'000

Zulauffrachten	BSB5 kg/Tag	CSB kg/Tag	NH4-N kg/Tag	Pges kg/Tag	Gasp. m3/Tag	FS kg/Tag
Mittelwert	1'238	5'104	196	36	1'053	2'684
50%-Wert	1'290	4'985	195	34	1'097	
80%-Wert	1'629	5'731	210	40	1'257	

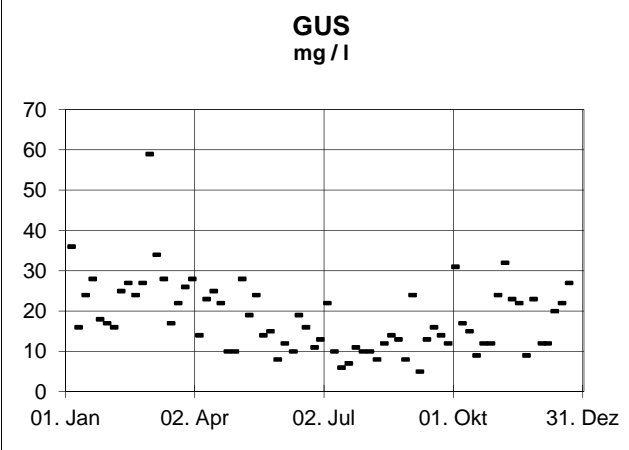
spezifische Belastung pro EW	g / Tag	g / Tag	g / Tag	g / Tag	Probenahmeort: ab VKB	l / Tag	g / Tag
	45	90	7.5	1.6		30	85

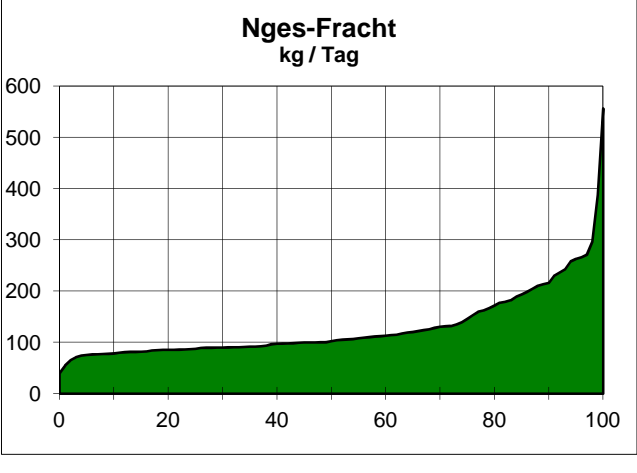
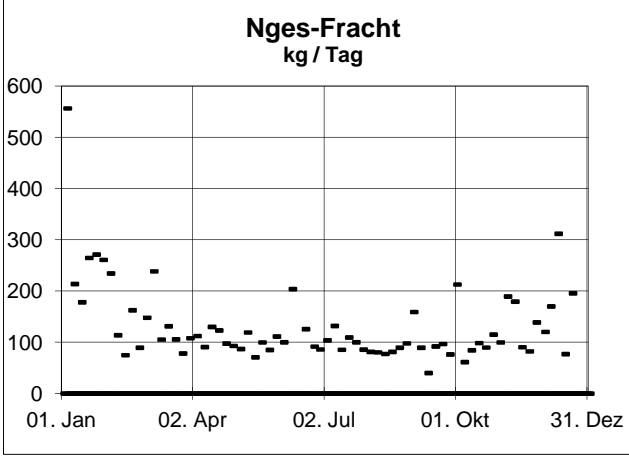
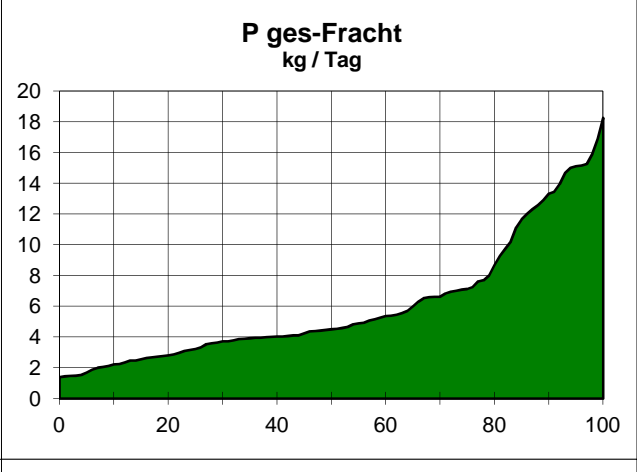
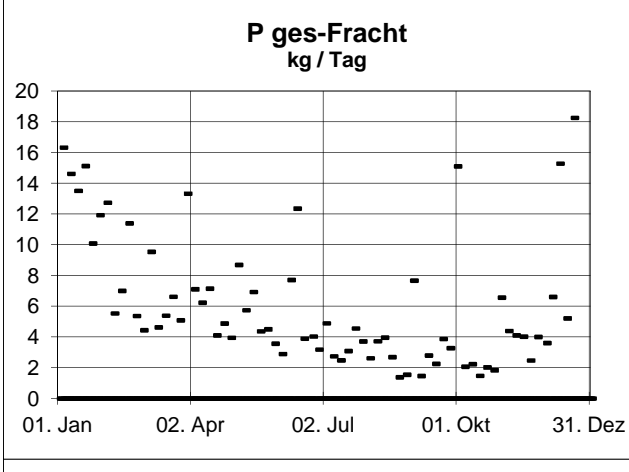
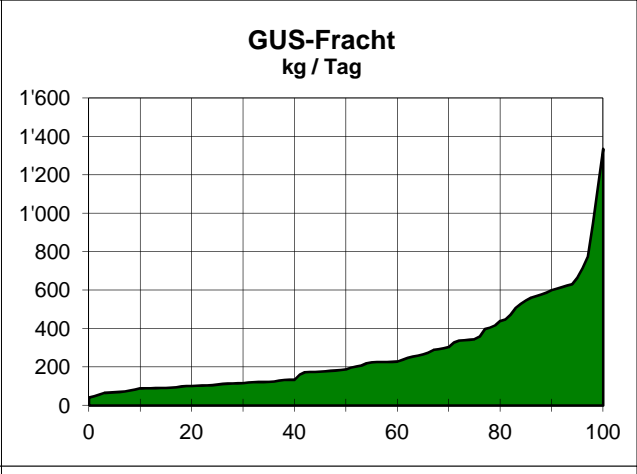
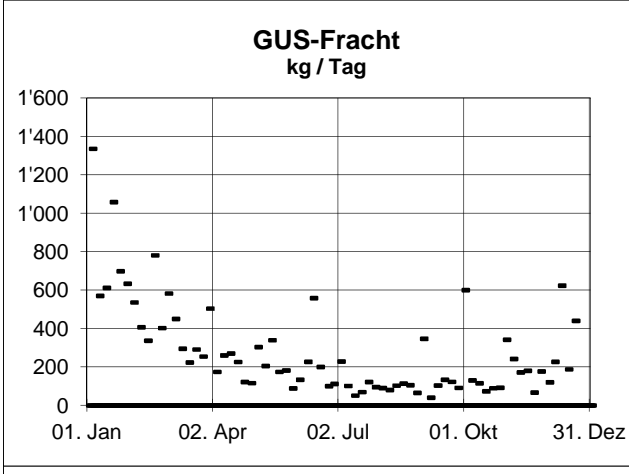
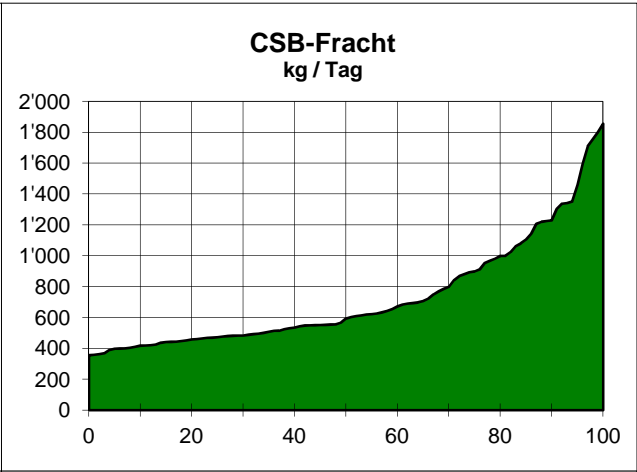
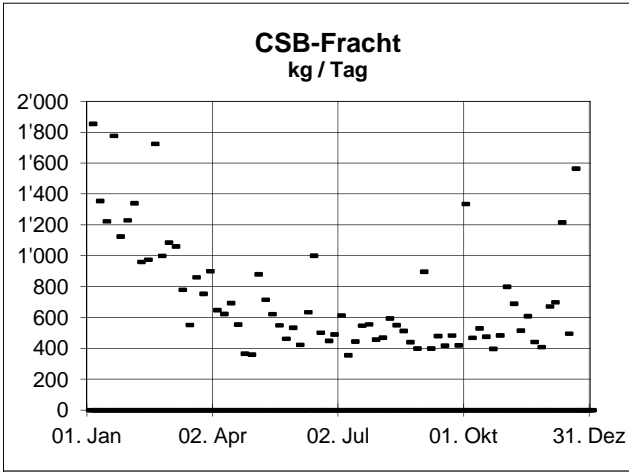
Einwohnerwerte	BSB5 EW	CSB EW	NH4-N EW	Pges EW	Mittelwerte EW	Gasp. EW	FS EW
Mittelwert	27'518	56'711	26'109	22'548	33'221	35'097	31'571
50%-Wert	28'664	55'393	25'937	21'435	32'857	36'567	
80%-Wert	36'211	63'674	27'954	25'069	38'227	41'907	

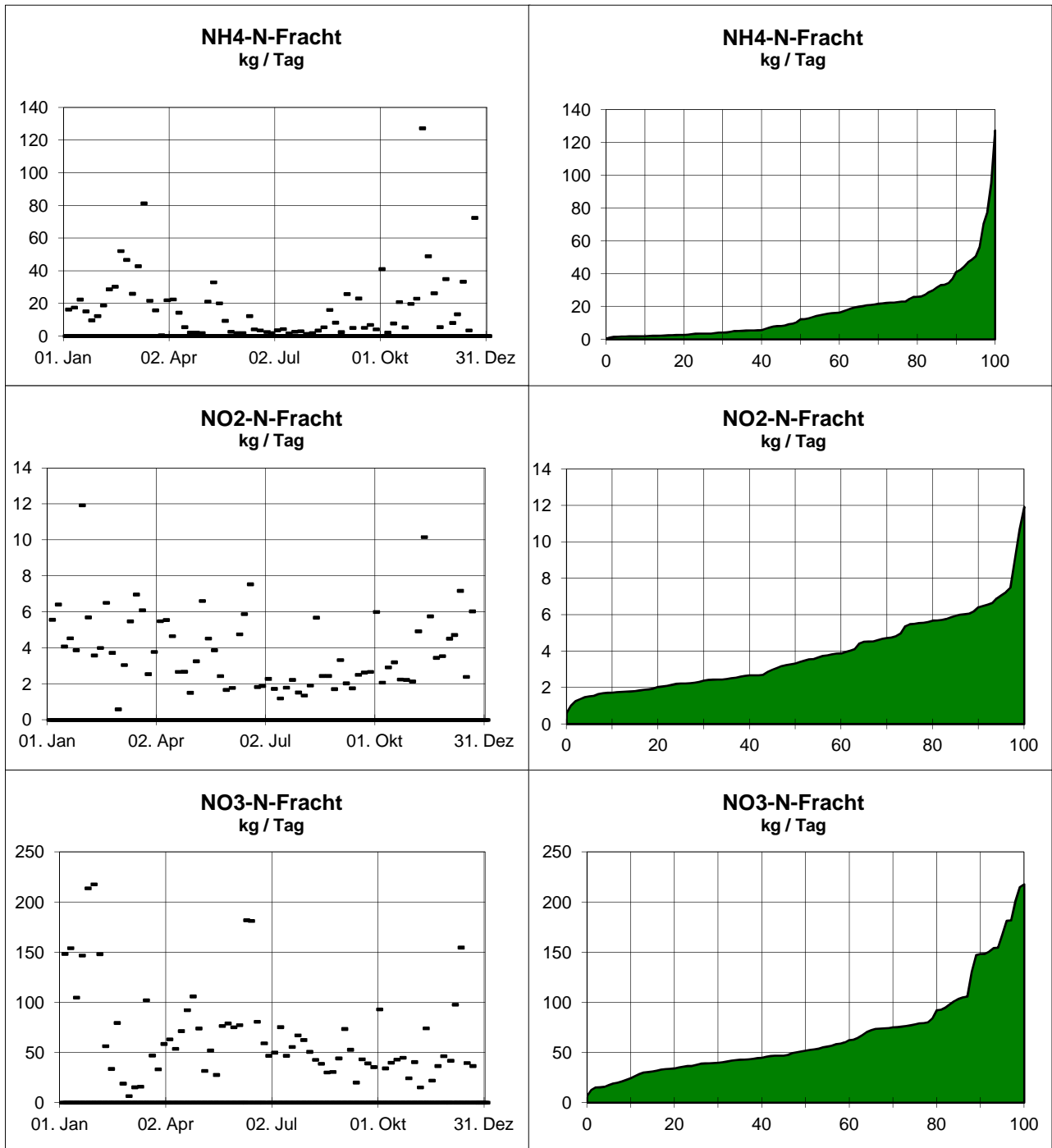


Angaben in mg/l	Mittelwert	90%-Wert	Grenzwert ¹⁾
BSB5			15
CSB	55.4	74.0	
GUS	18.3	28.0	15
NH4-N	1.5	3.1	2
NO2-N²⁾	0.3	0.5	0.3
NO3-N	4.8	6.8	
P ges	0.42	0.58	0.8

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





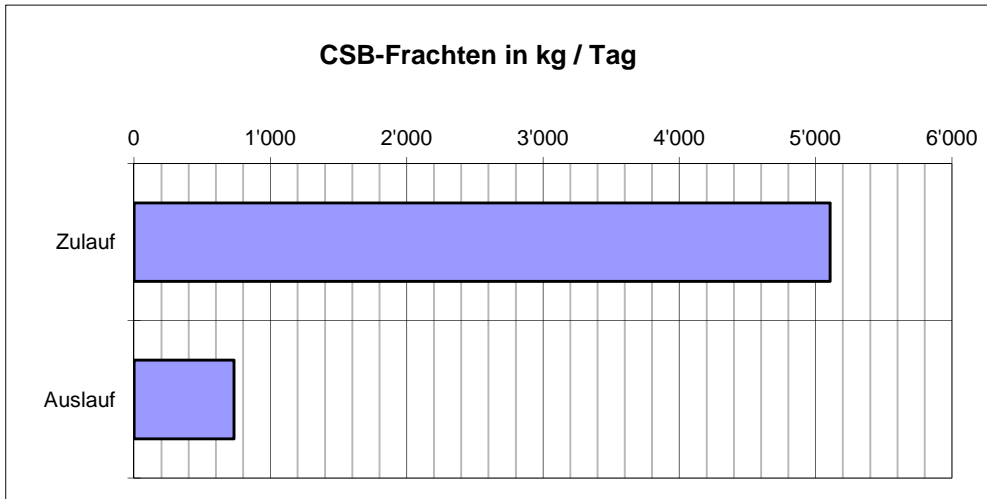


Auslauffrachten:

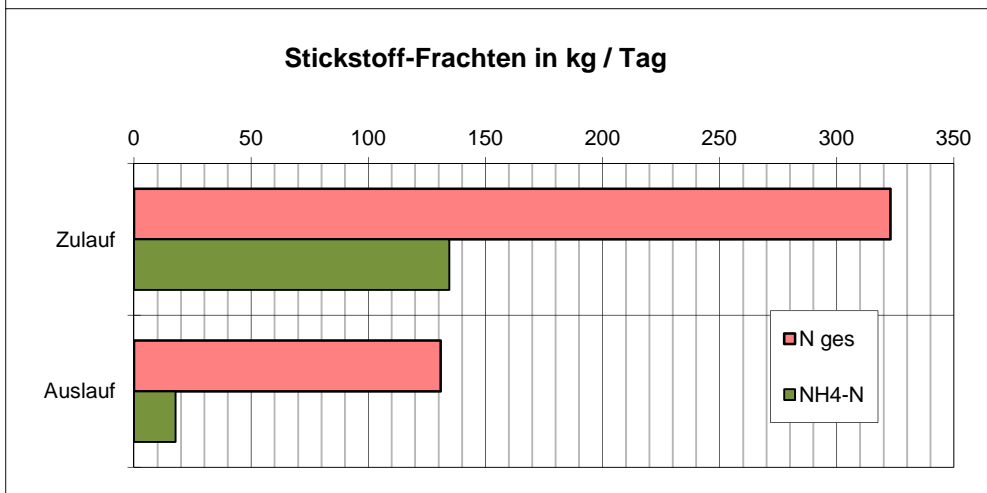
Angaben in kg/Tag	Mittel- wert	50%- Wert	80%- Wert	Mittel 5 - 95 %
CSB	731	594	1'000	694
GUS	278	188	440	250
N ges				
NH4-N	17.7	12.2	26.0	14.8
NO2-N	3.8	3.3	5.7	3.7
NO3-N	67.2	51.9	92.2	62.7
P ges	6.1	4.5	8.7	5.8

Abbauleistungen:

	Zulauf kg / Tag	Auslauf kg / Tag	Abbau	Grenz- wert
CSB	5'104	731	86%	80%
N ges	323.0	130.9	59%	30%
NH4-N	134.5	17.7	87%	90%
Pges	36.1	6.1	83%	80%

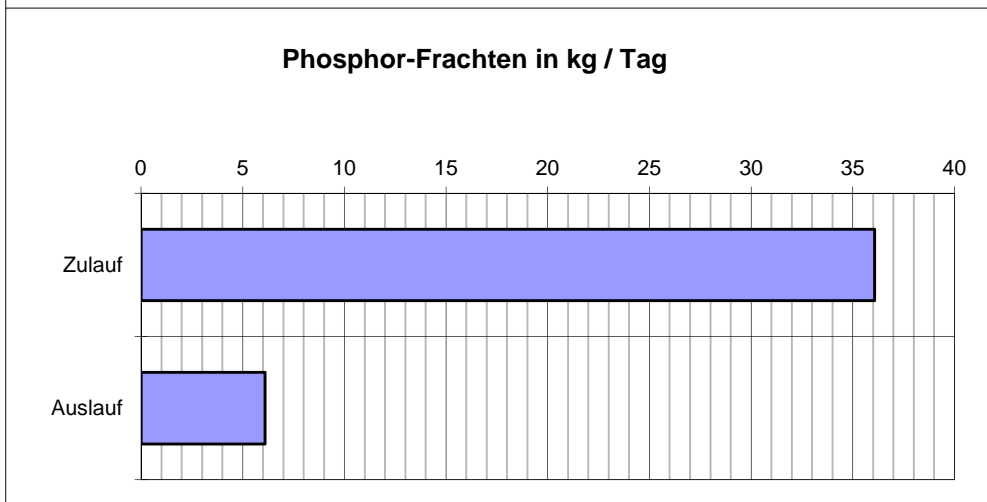


CSB-Abbau	
4'373 kg / Tag	86%
80%	Richtwert

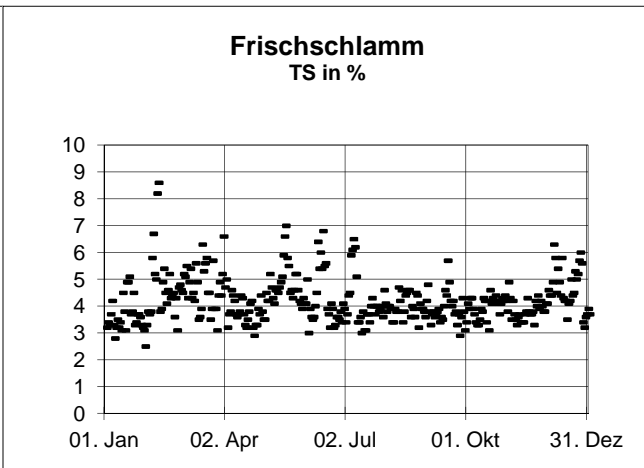
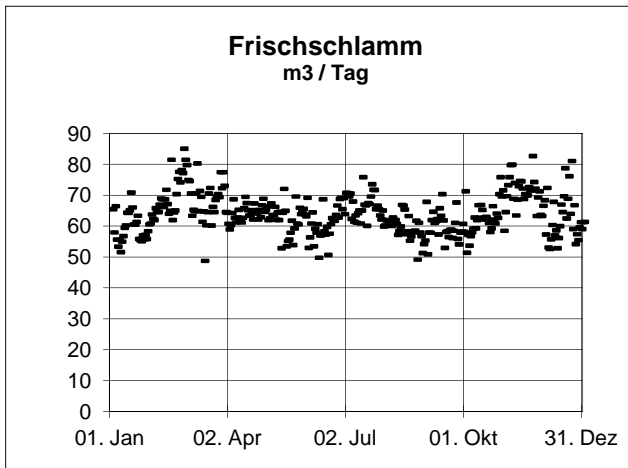


N-Elimination	
192 kg / Tag	59%
30%	

Nitrifikation	
117 kg / Tag	87%
90%	



P-Elimination	
30 kg / Tag	83%
80%	

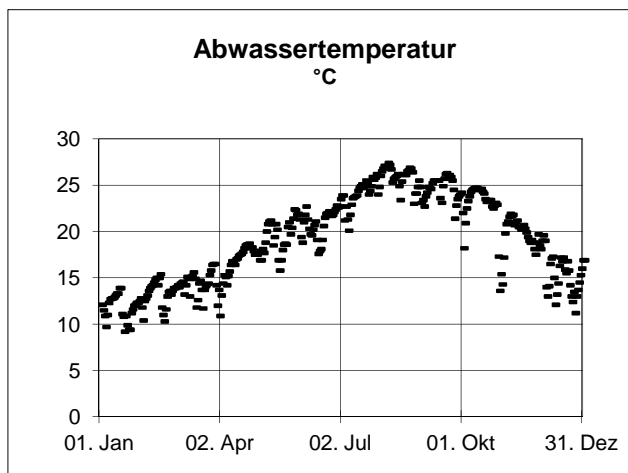


Frishschlammmanfall: Mittelwerte

Frishschl. nass	63.9	m3/Tag
TS-Anteil	4.2	%
Frishschl. in TS	2'684	kg/Tag

Jahresanfall

Frishschl. in TS	979	t/ Jahr
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Abwassertemperatur:

Mittelwert	19.1	°C
20%-Wert	14.1	°C
50%-Wert	19.1	°C
80%-Wert	24.1	°C

Bemerkungen zur Datenauswertung: