

	Q bio m3 / Tag	Q min l / s	Q max l / s
Mittelwert	22'235		
20%-Wert	14'058	109	287
50%-Wert	19'644	145	438
80%-Wert	32'648	300	495
Q tw 1)	16'851	127	363
2 Q tw			725

1) Mittel aus 20% und 50%-Wert

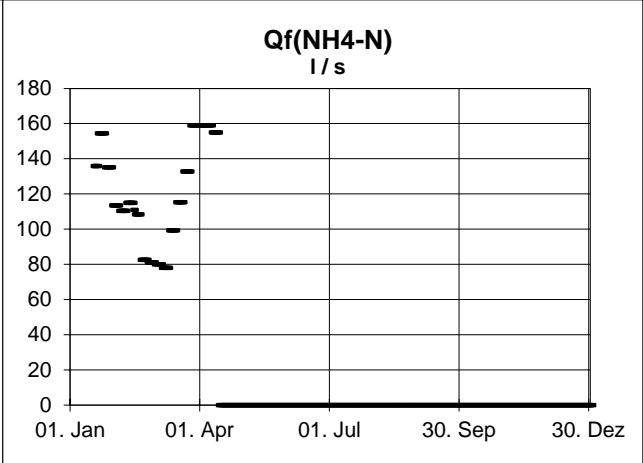
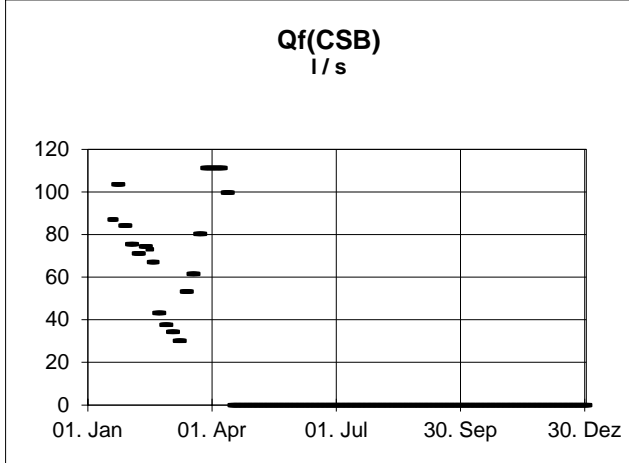
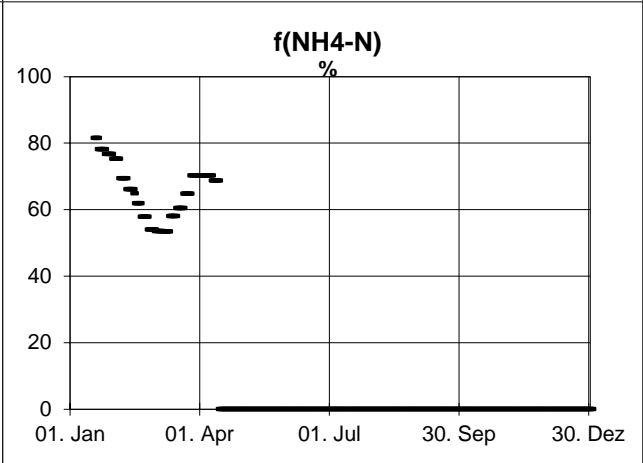
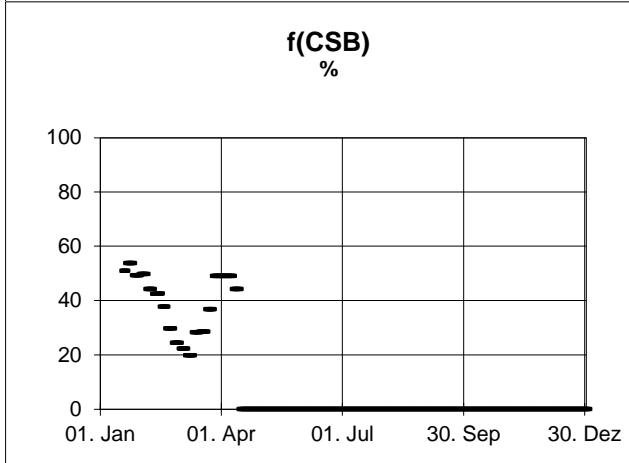
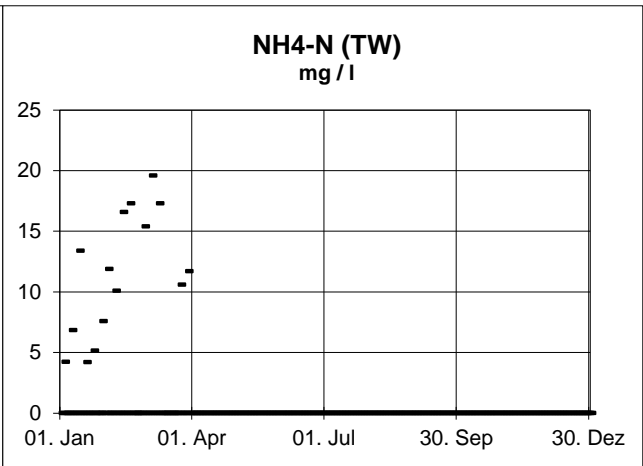
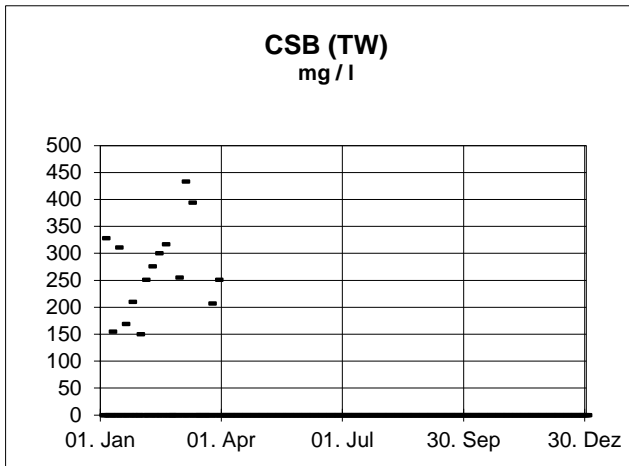
Fremdwasseranteil 47 %

siehe Seite 2

	Tagesmittelwerte	
	m3 / d	l / s
Q tw	16'851	195
Q fremd 2)	7'866	91
Q schmutz 3)	8'985	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

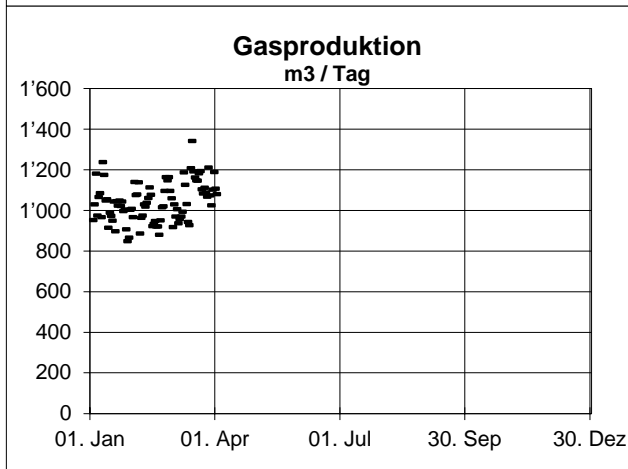
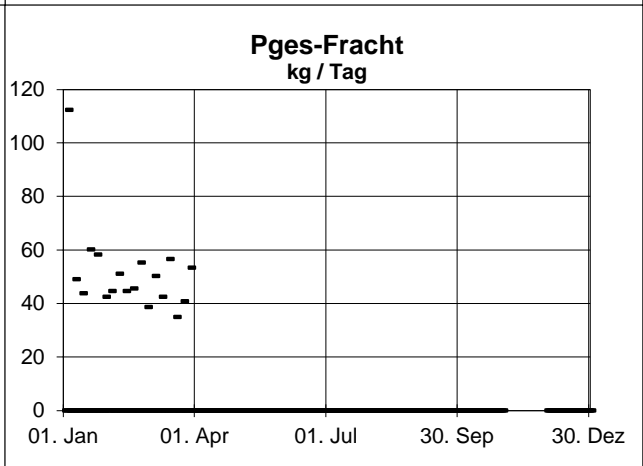
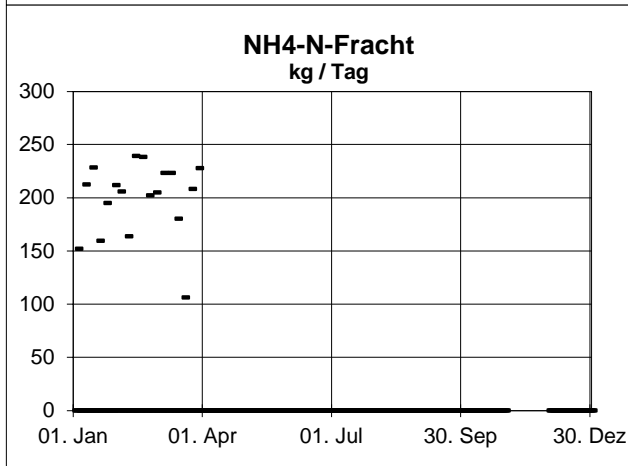
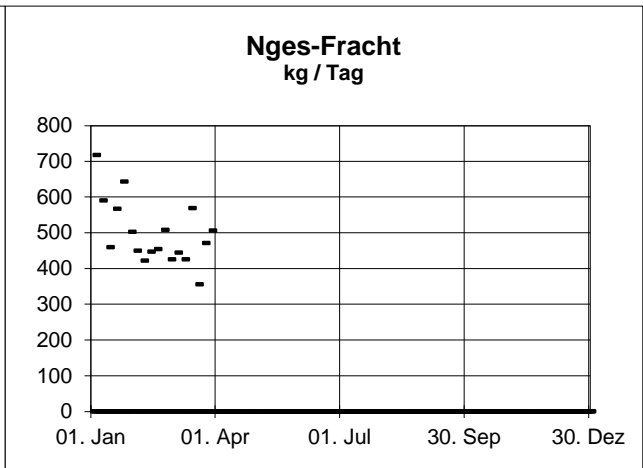
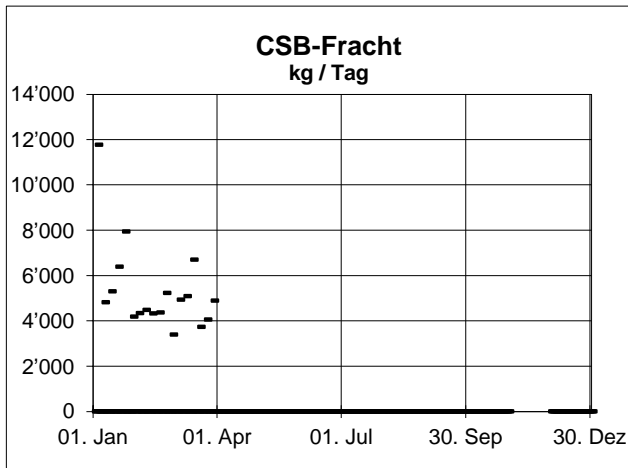
Q tw	16'851 m3 / Tag
Q schmutz (EW) ¹⁾	11'800 m3 / Tag
Q fremd (EW)	5'051 m3 / Tag
f (EW)	30 %

¹⁾ 200 l / EW * Tag

Schätzung aus den Zulaufkonzentrationen:

f(CSB) Jahresmittel	41 %
f(NH4-N) Jahresmittel	69 %

f Mittelwert	47 %
f gewählt	47 %

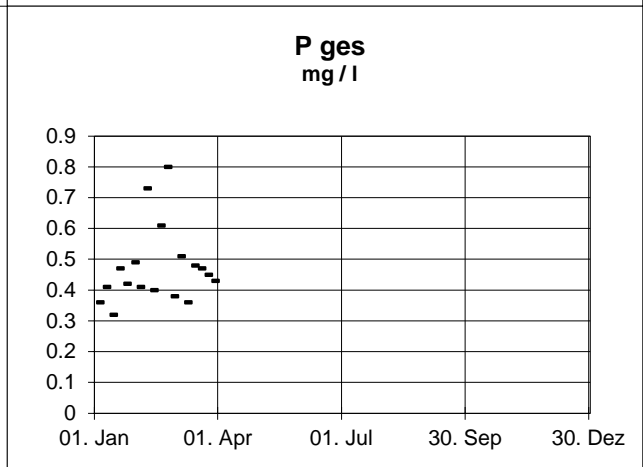
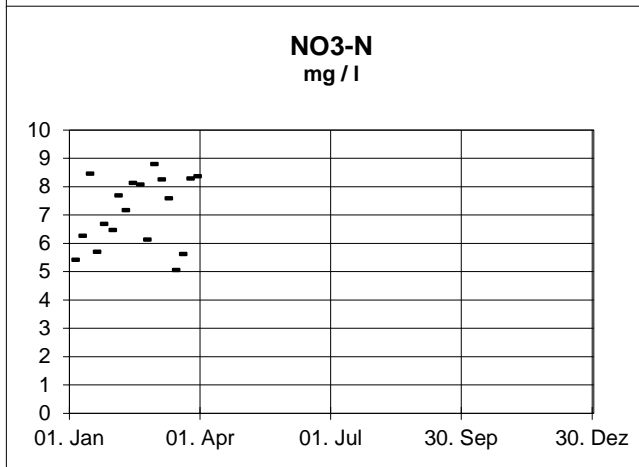
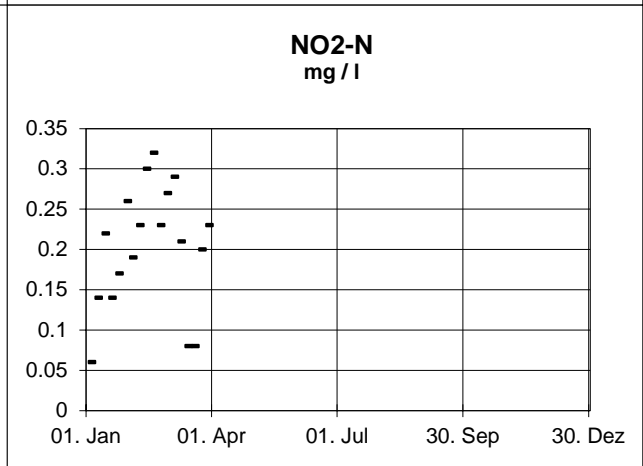
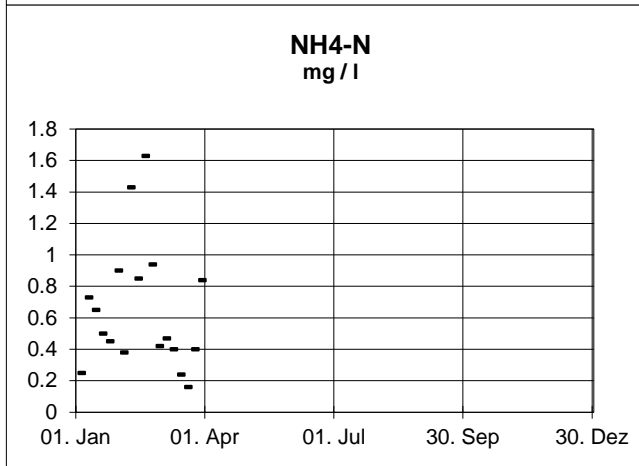
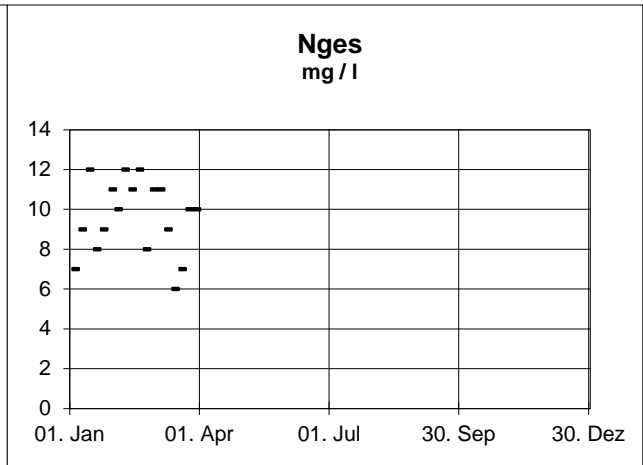
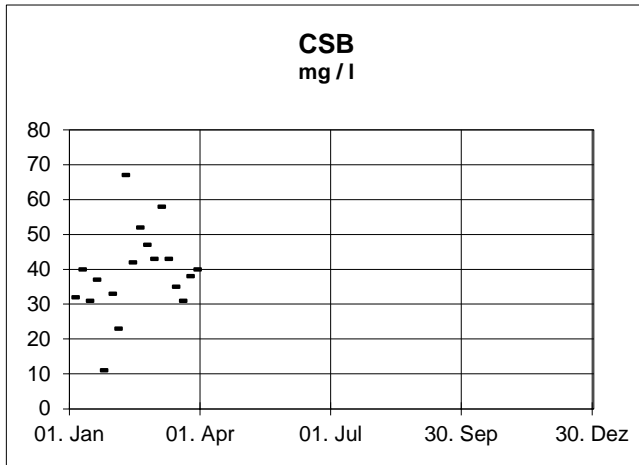


EZ angeschlossen	21'300
EW biochem. gewählt	59'000
EW biochem. 80%-Wert	66'000
EW Stickstoff	27'000
EW Phosphor	32'000

<u>Zulauffrachten</u>	BSB5 kg/Tag	CSB kg/Tag	NH4-N kg/Tag	Pges kg/Tag	Gasp. m3/Tag	FS kg/Tag
Mittelwert		5'331	199	51	1'043	2'620
50%-Wert		4'852	207	47	1'038	
80%-Wert		5'957	226	56	1'138	

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

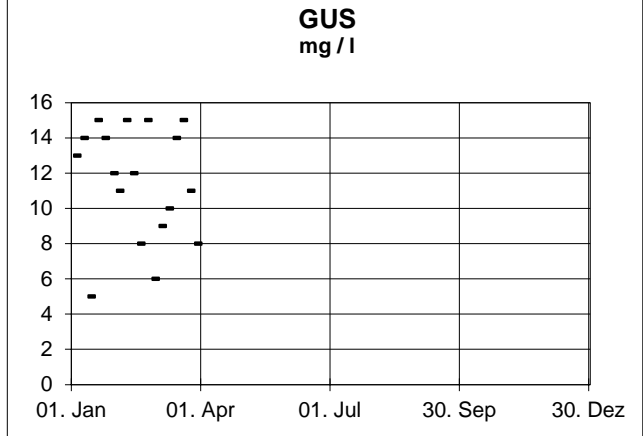
<u>Einwohnerwerte</u>	BSB5 EW	CSB EW	NH4-N EW	Pges EW	Mittelwerte EW	Gasp. EW	FS EW
Mittelwert		59'230	26'545	32'103	39'293	34'779	30'819
50%-Wert		53'911	27'598	29'593	37'034	34'600	
80%-Wert		66'188	30'131	35'038	43'786	37'933	

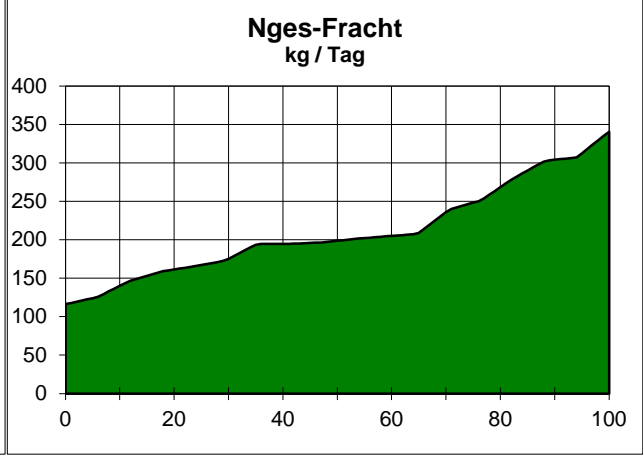
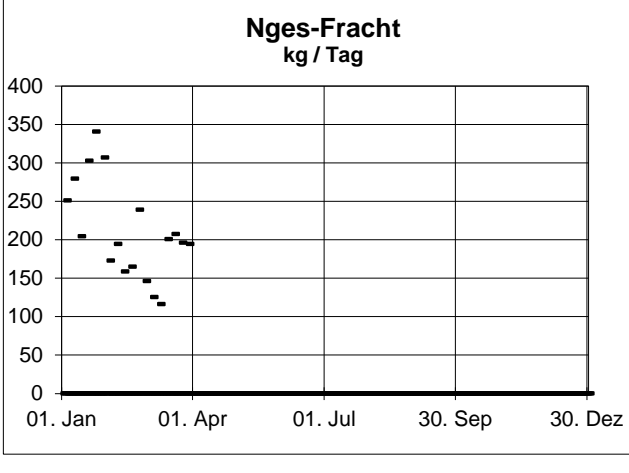
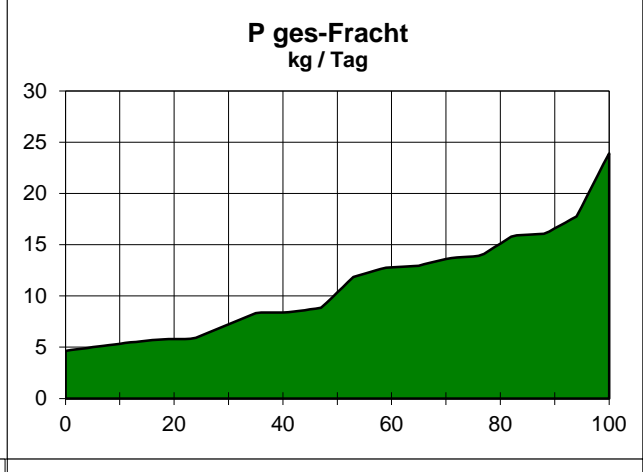
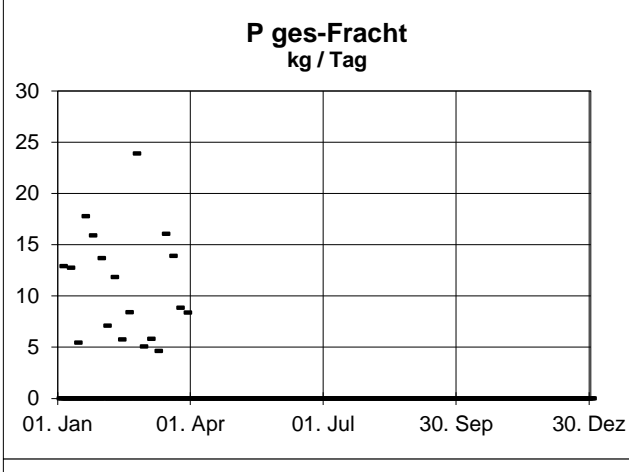
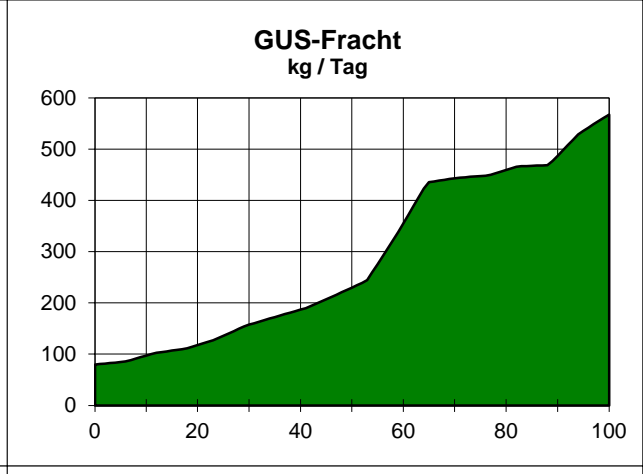
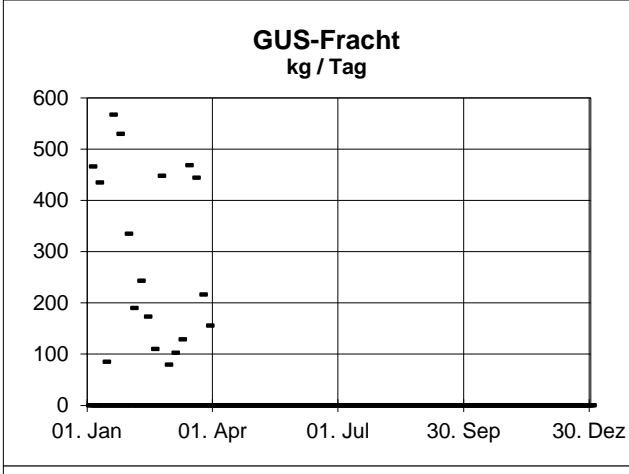
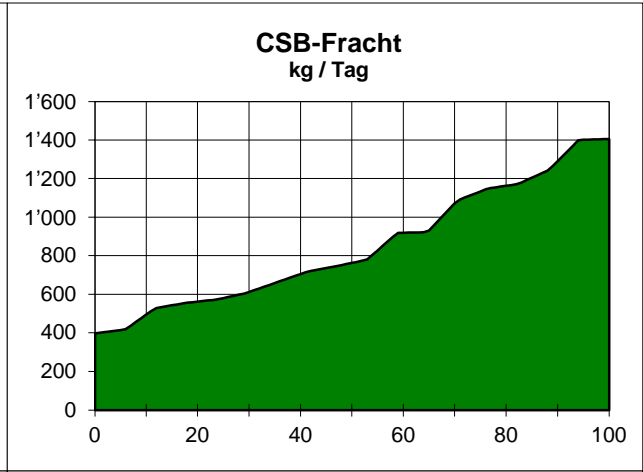
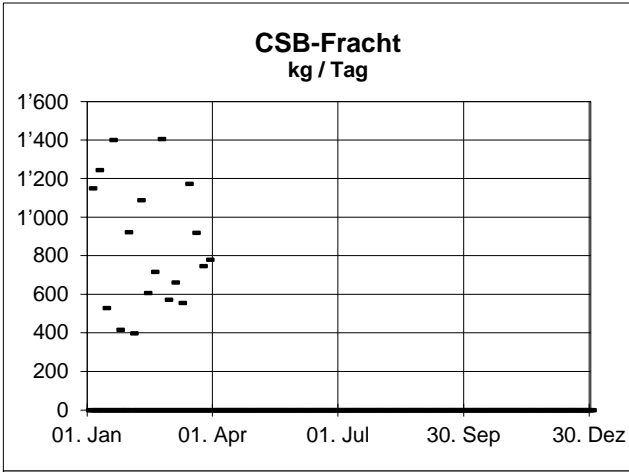


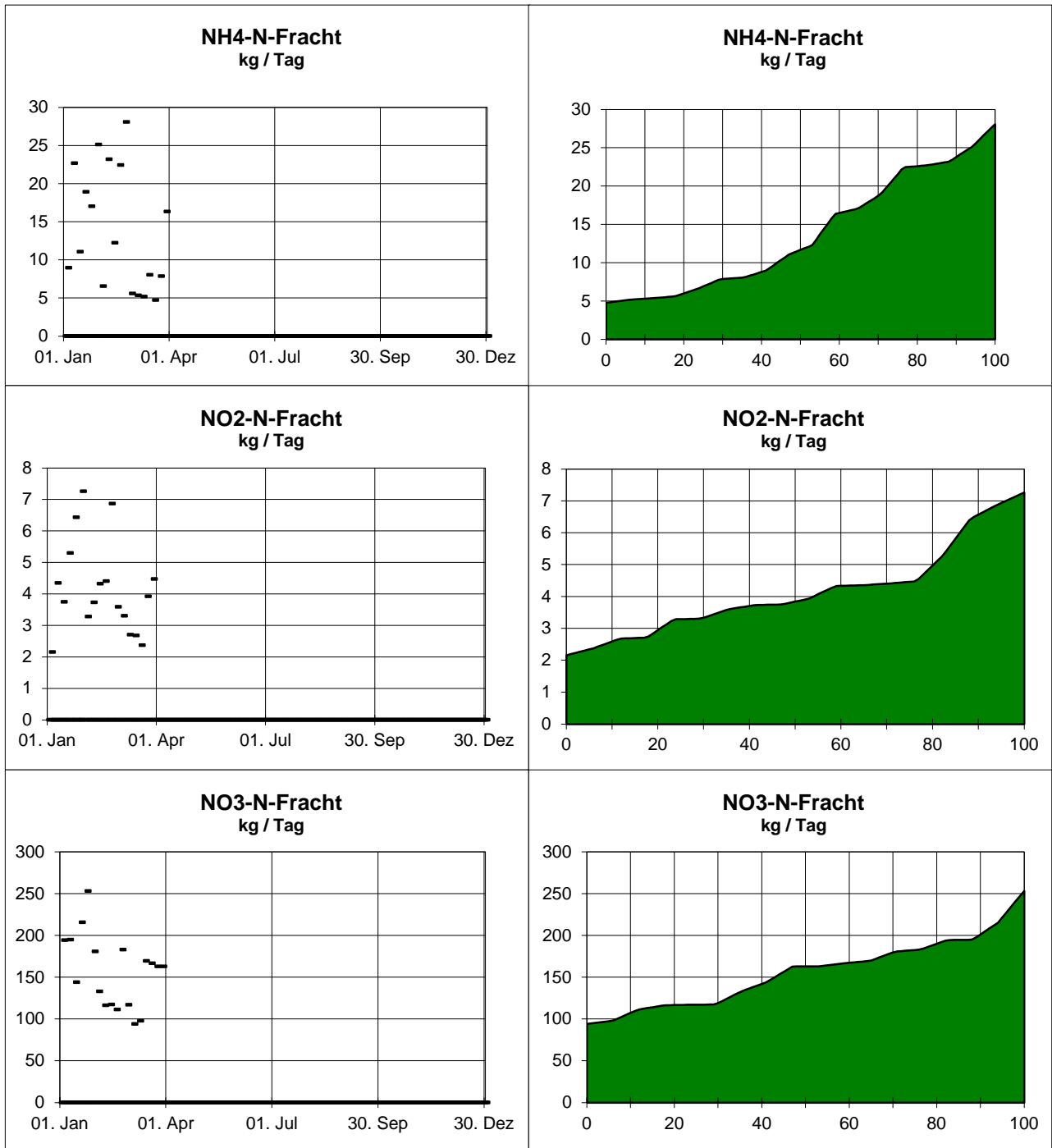
Angaben in mg/l	Mittel- wert	90%- Wert	Grenz- wert ¹⁾
BSB5			15
CSB	39.1	53.8	
GUS	11.5	15.0	15
NH4-N	0.6	1.1	2
NO2-N ²⁾	0.2	0.3	0.3
NO3-N	7.1	8.4	
P ges	0.47	0.65	0.8

¹⁾ nach GSchV vom 28. Oktober 1998

²⁾ Richtwert





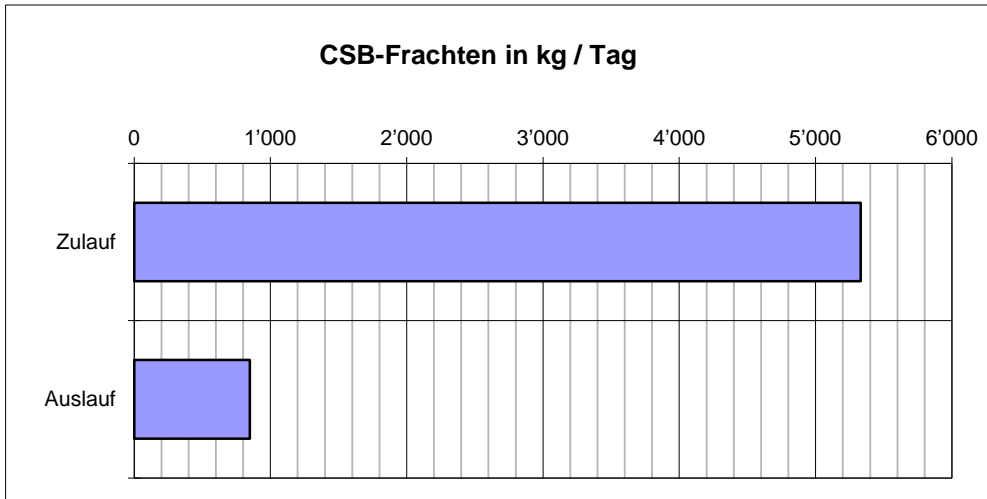


Auslauffrachten:

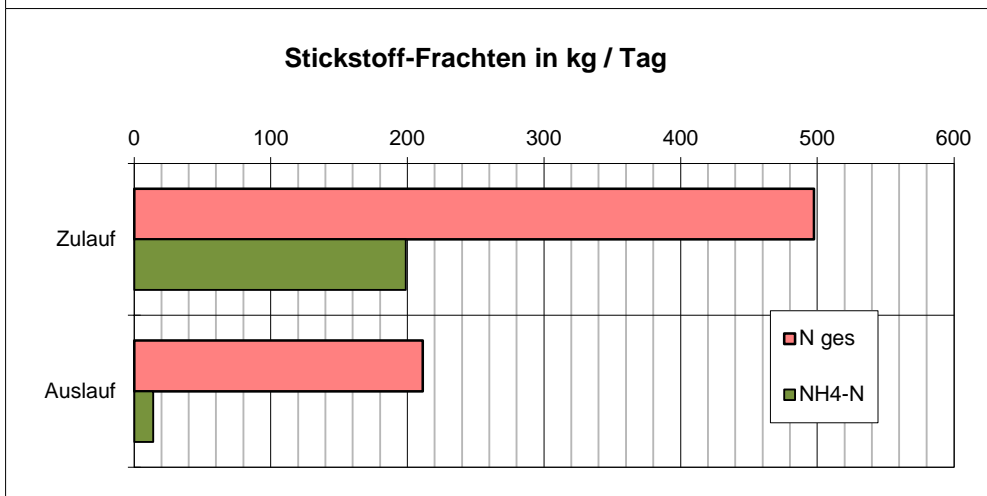
Angaben in kg/Tag	Mittel- wert	50%- Wert	80%- Wert	Mittel 5 - 95 %
CSB	848	763	1'162	840
GUS	288	230	459	283
Nges	211	199	268	209
NH4-N	13.9	11.7	22.6	13.5
NO2-N	4.2	3.8	5.0	4.1
NO3-N	156.4	162.9	190.0	154.2
P ges	11.0	10.3	15.1	10.6

Abbauleistungen:

	Zulauf kg / Tag	Auslauf kg / Tag	Abbau	Grenz- wert
CSB	5'331	848	84%	80%
N ges	497.7	211.3	58%	30%
NH4-N	198.9	13.9	93%	90%
Pges	51.4	11.0	79%	80%

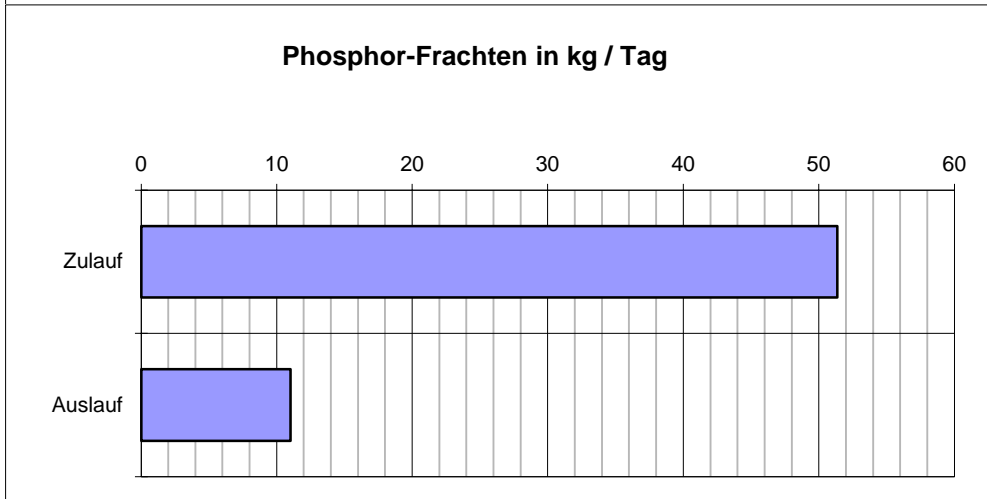


CSB-Abbau	
4'482 kg / Tag	84%
80%	Richtwert

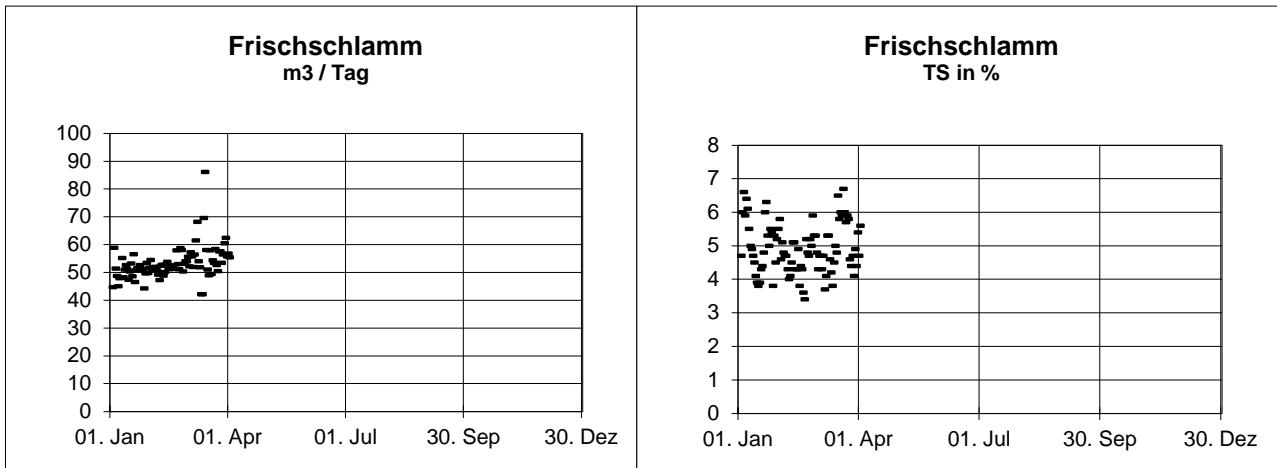


N-Elimination	
286 kg / Tag	58%
30%	

Nitrifikation	
185 kg / Tag	93%
90%	



P-Elimination	
40 kg / Tag	79%
80%	

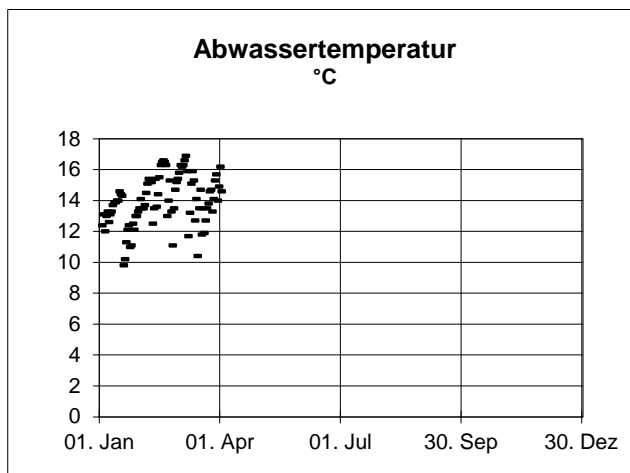


Frischschlammmanfall: Mittelwerte

Frischschl. nass	53.2	m3/Tag
TS-Anteil	4.9	%
Frischschl. in TS	2'620	kg/Tag

Jahresanfall

Frischschl. in TS	956	t/ Jahr
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Abwassertemperatur:

Mittelwert	13.9 °C
20%-Wert	12.7 °C
50%-Wert	13.9 °C
80%-Wert	15.4 °C

Bemerkungen zur Datenauswertung: