

	Q bio m3 / Tag	Q min l / s	Q max l / s
Mittelwert	22'034		
20%-Wert	11'304	90	324
50%-Wert	19'896	128	450
80%-Wert	35'534	359	480
Q tw 1)	15'600	109	387
2 Q tw			774

1) Mittel aus 20% und 50%-Wert

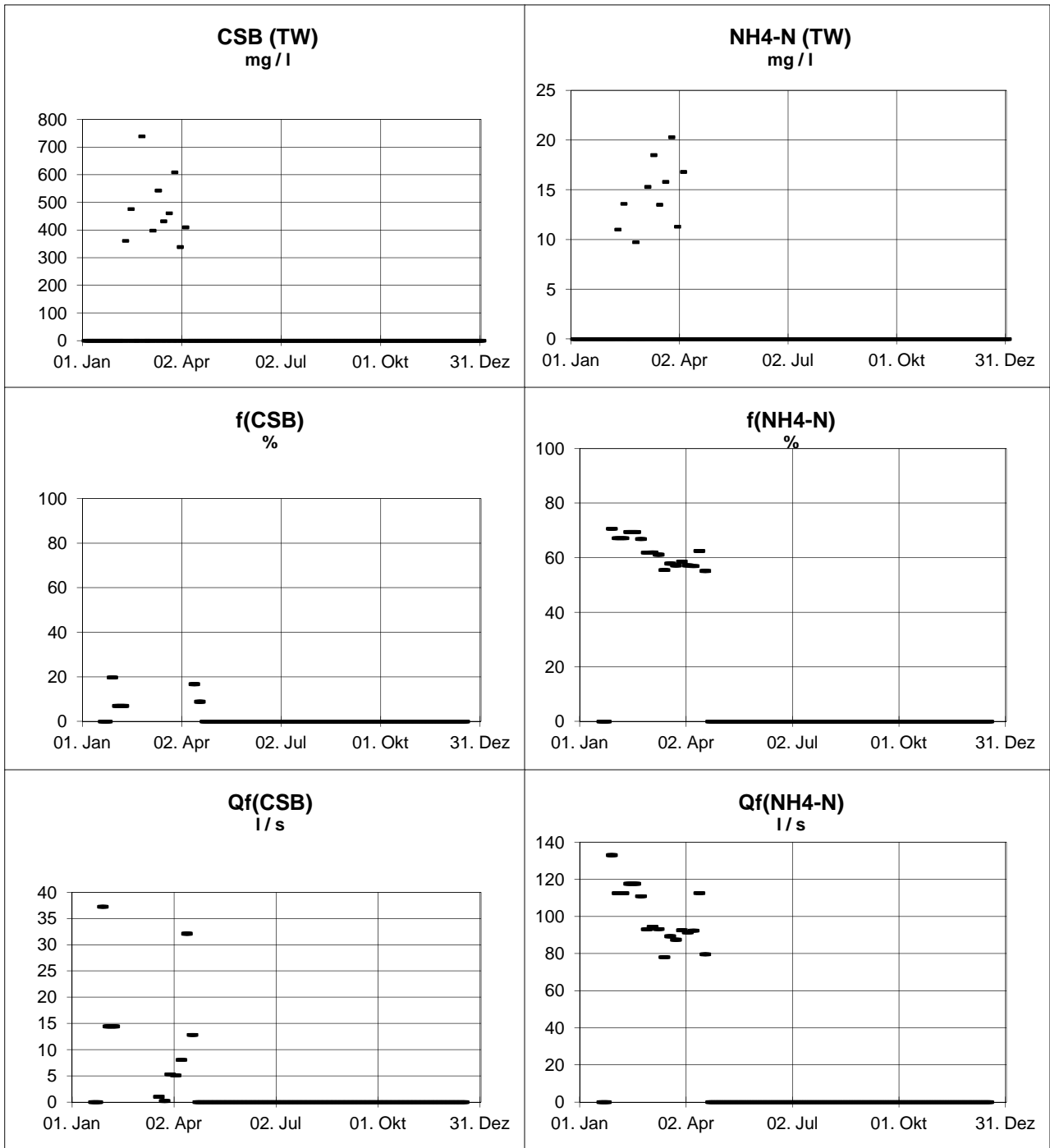
Fremdwasseranteil 24 %

siehe Seite 2

	Tagesmittelwerte	
	m3 / d	l / s
Q tw	15'600	181
Q fremd 2)	3'801	44
Q schmutz 3)	11'799	137

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

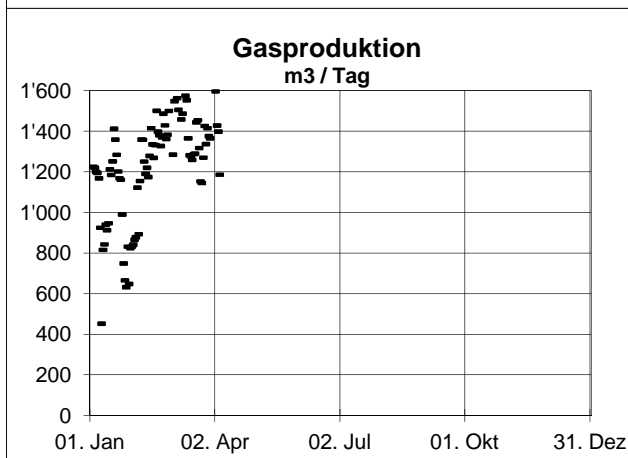
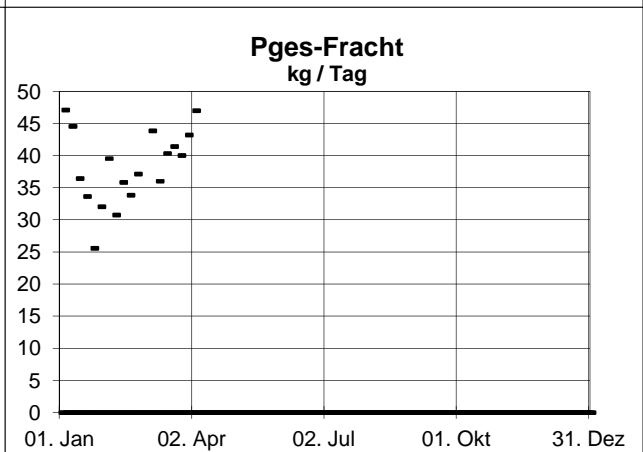
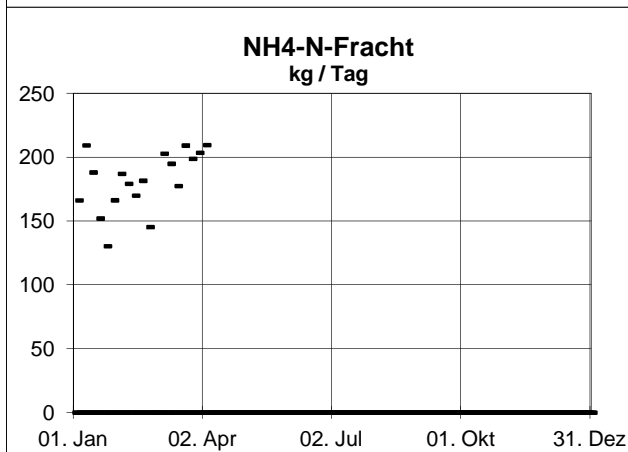
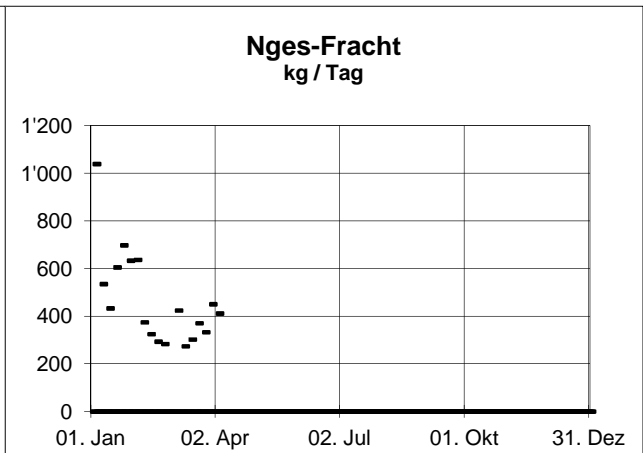
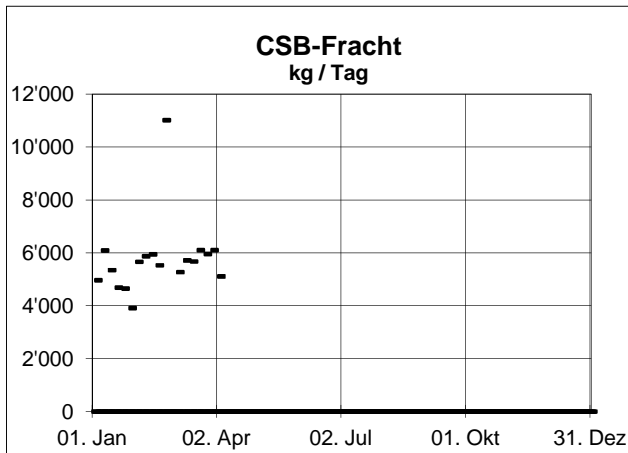
Q tw	15'600 m3 / Tag
Q schmutz (EW) ¹⁾	12'800 m3 / Tag
Q fremd (EW)	2'800 m3 / Tag
f (EW)	18 %

¹⁾ 200 l / EW * Tag

Schätzung aus den Zulaufkonzentrationen:

f(CSB) Jahresmittel	-6 %
f(NH4-N) Jahresmittel	61 %

f Mittelwert	24 %
f gewählt	24 %

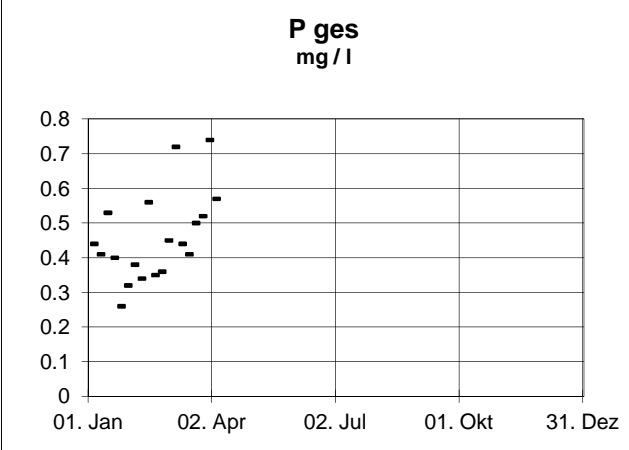
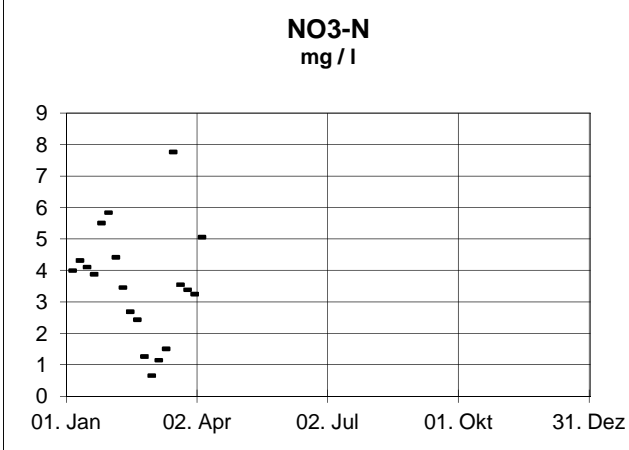
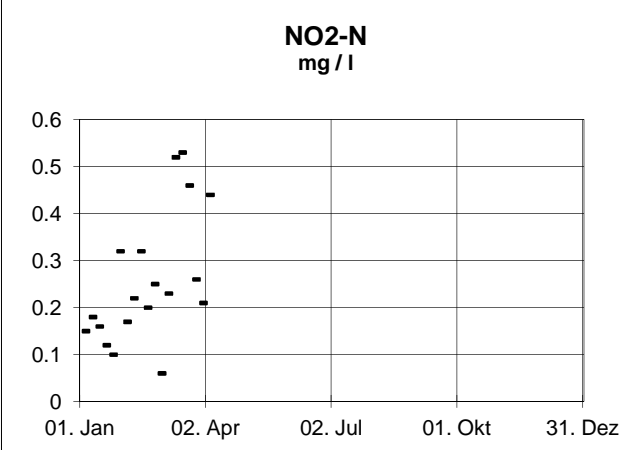
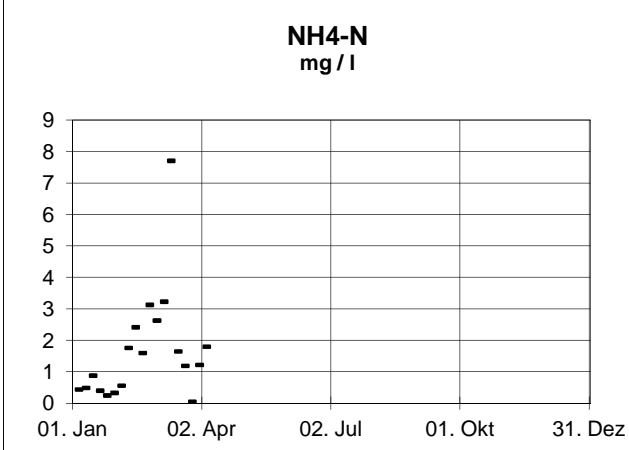
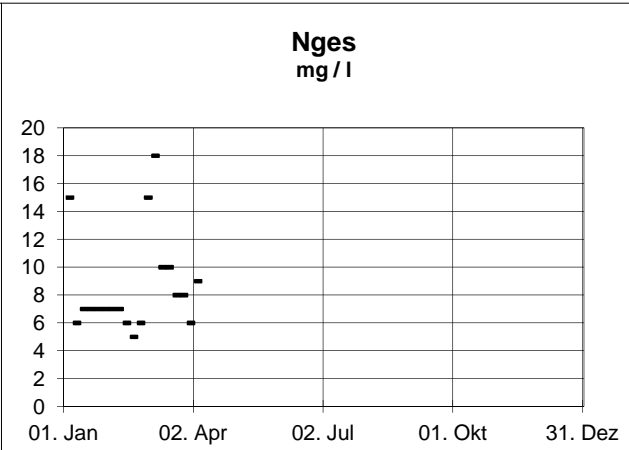
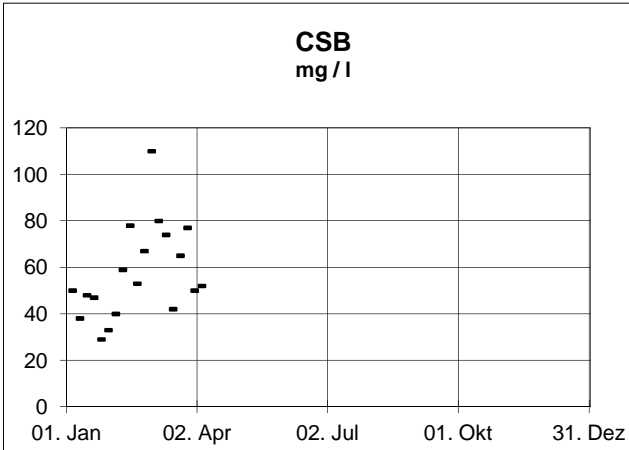


EZ angeschlossen	20'000
EW biochem. gewählt	64'000
EW biochem. 80%-Wert	67'000
EW Stickstoff	24'000
EW Phosphor	24'000

Zulauffrachten	BSB5 kg/Tag	CSB kg/Tag	NH4-N kg/Tag	Pges kg/Tag	Gasp. m3/Tag	FS kg/Tag
Mittelwert		5'760	182	38	1'253	2'857
50%-Wert		5'672	184	38	1'285	
80%-Wert		6'044	203	44	1'456	

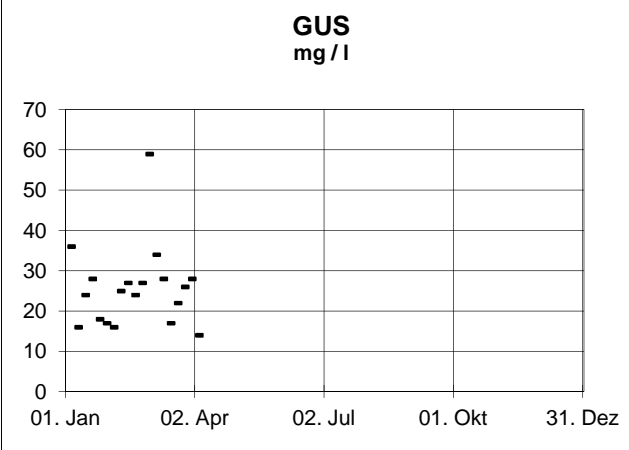
spezifische Belastung pro EW	g / Tag	g / Tag	g / Tag	g / Tag	Probenahmeort: ab VKB	l / Tag	g / Tag
	45	90	7.5	1.6		30	85

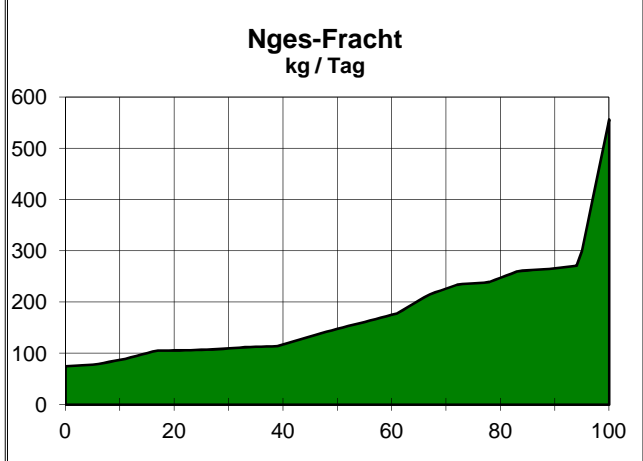
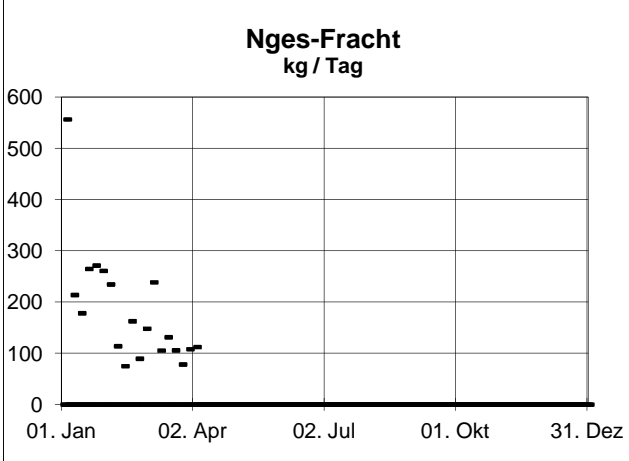
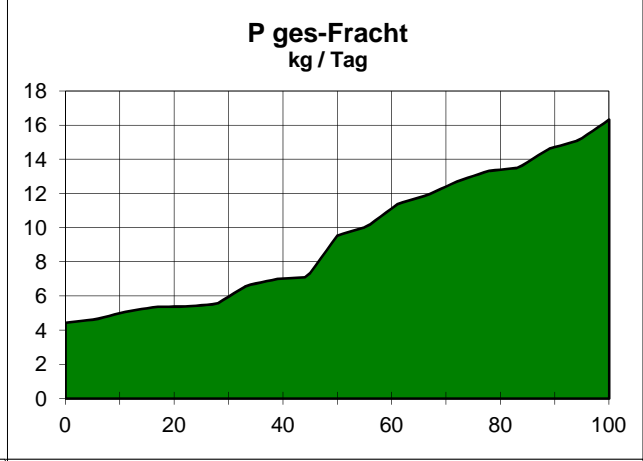
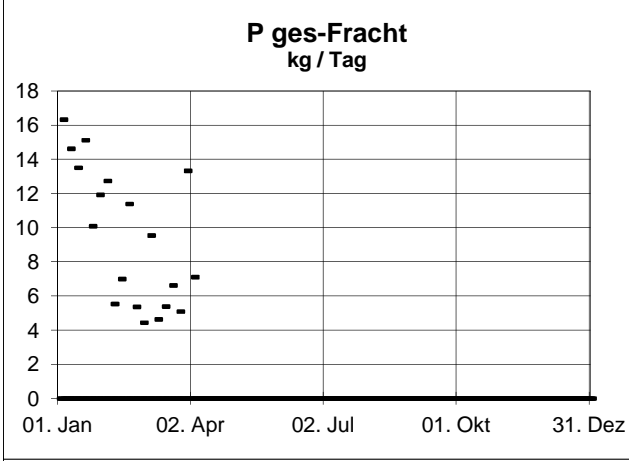
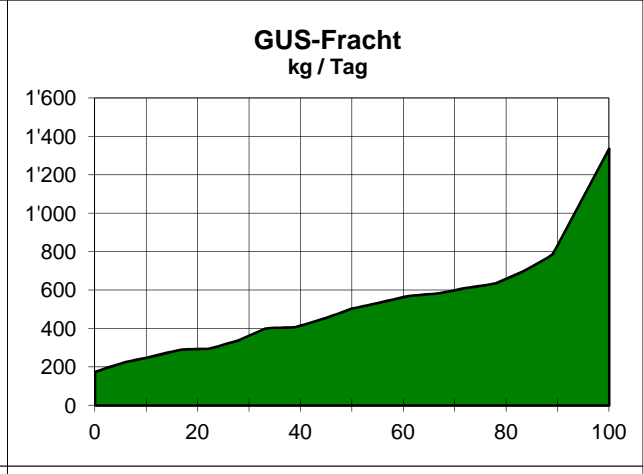
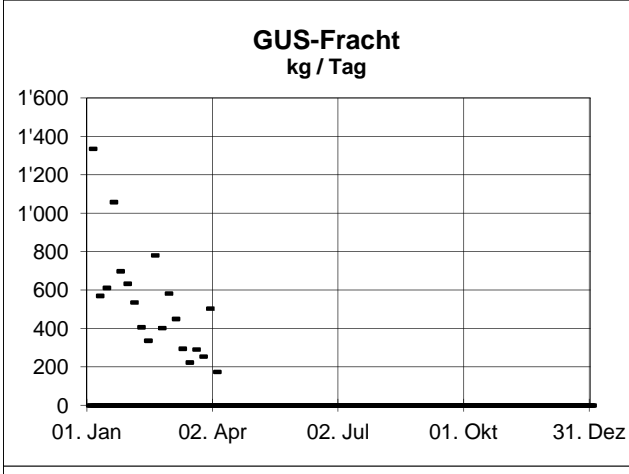
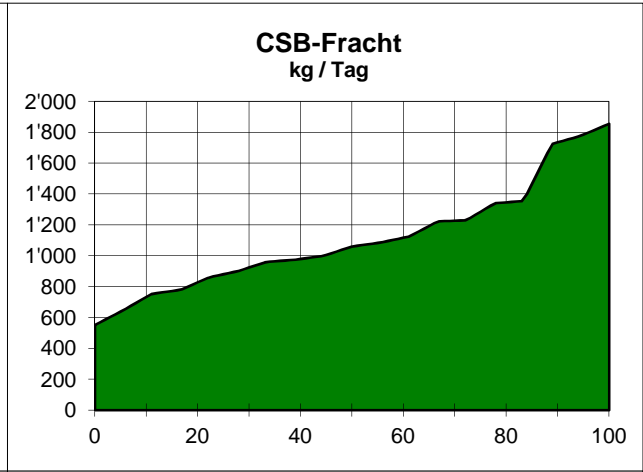
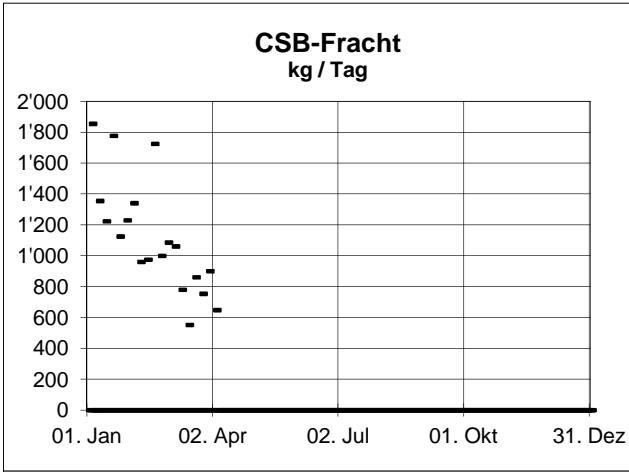
Einwohnerwerte	BSB5 EW	CSB EW	NH4-N EW	Pges EW	Mittelwerte EW	Gasp. EW	FS EW
Mittelwert		64'005	24'233	23'911	37'383	41'769	33'616
50%-Wert		63'017	24'579	23'970	37'189	42'833	
80%-Wert		67'152	27'096	27'259	40'502	48'547	

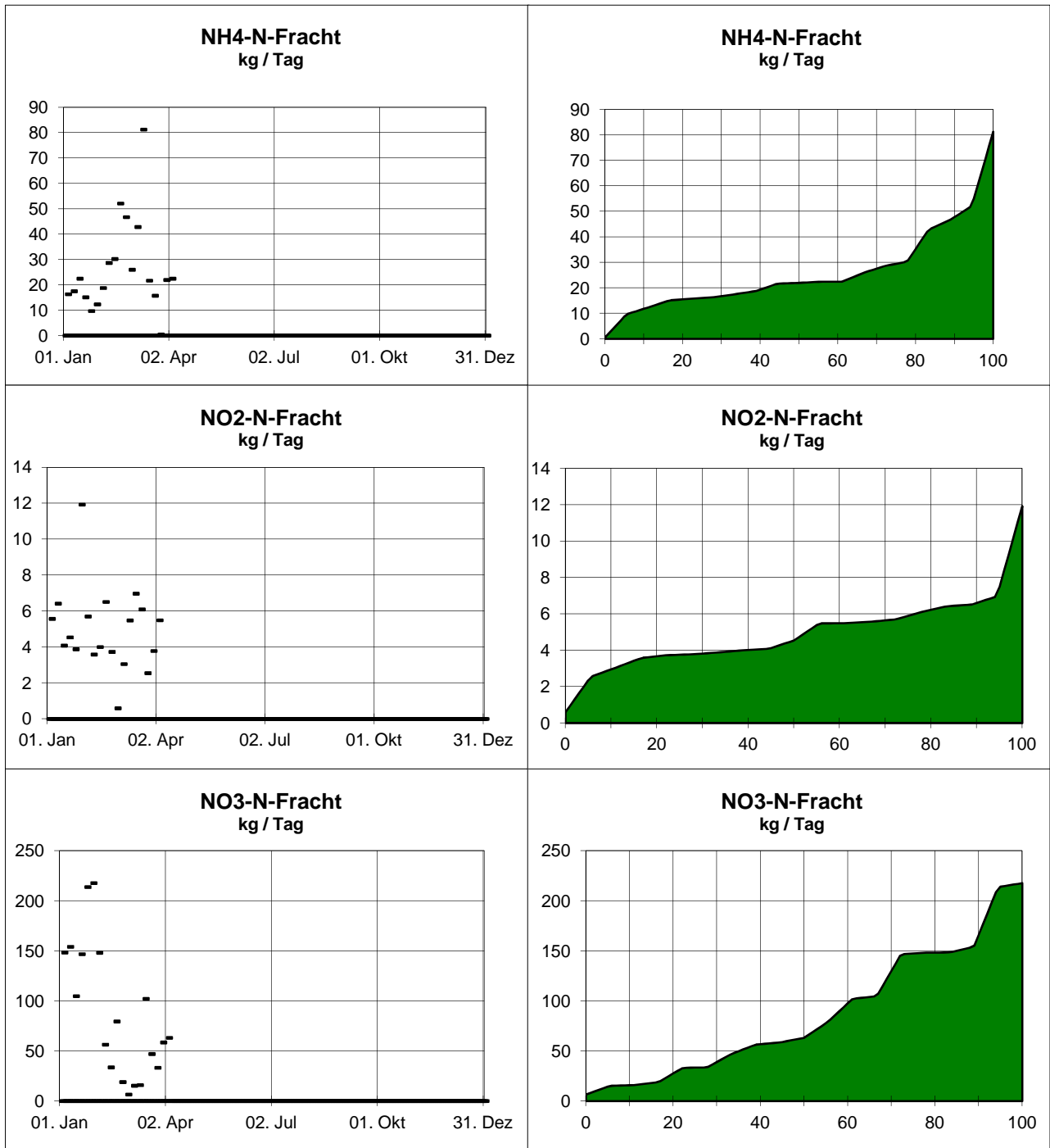


Angaben in mg/l	Mittelwert	90%-Wert	Grenzwert ¹⁾
BSB5			15
CSB	57.5	78.4	
GUS	25.6	34.4	15
NH4-N	1.7	3.2	2
NO2-N²⁾	0.3	0.5	0.3
NO3-N	3.6	5.6	
P ges	0.46	0.60	0.8

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







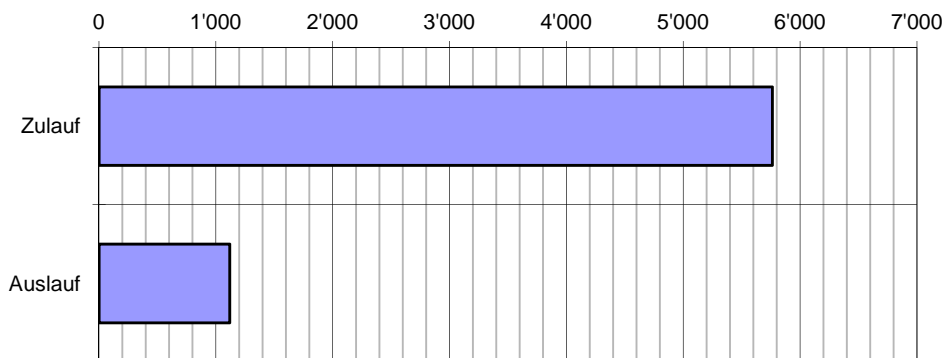
Auslauffrachten:

Angaben in kg/Tag	Mittel- wert	50%- Wert	80%- Wert	Mittel 5 - 95 %
CSB	1'116	1'060	1'346	1'102
GUS	534	504	659	503
N ges				
NH4-N	26.4	22.0	35.3	24.5
NO2-N	4.9	4.5	6.2	4.8
NO3-N	87.5	63.1	148.3	83.5
P ges	9.5	9.5	13.4	9.3

Abbauleistungen:

	Zulauf kg / Tag	Auslauf kg / Tag	Abbau	Grenz- wert
CSB	5'760	1'116	81%	80%
N ges	453.8	181.6	60%	30%
NH4-N	167.4	26.4	84%	90%
Pges	38.3	9.5	75%	80%

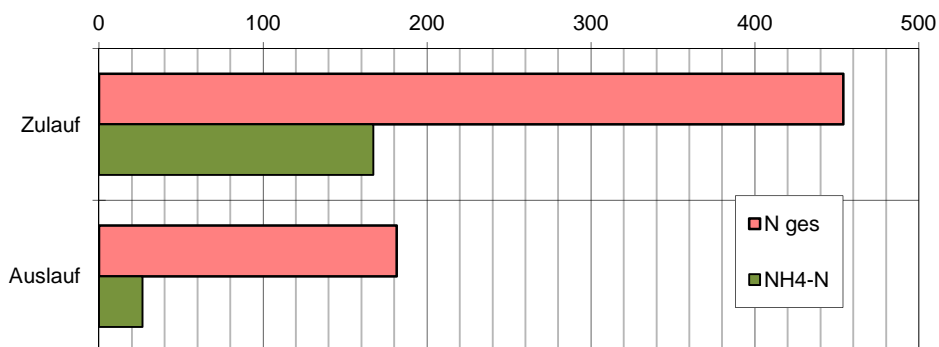
CSB-Frachten in kg / Tag



CSB-Abbau

4'644 kg / Tag
81%
80%
Richtwert

Stickstoff-Frachten in kg / Tag



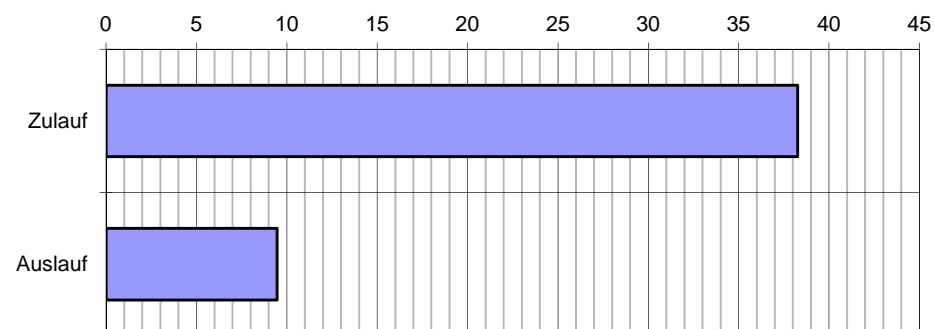
N-Elimination

272 kg / Tag
60%
30%

Nitrifikation

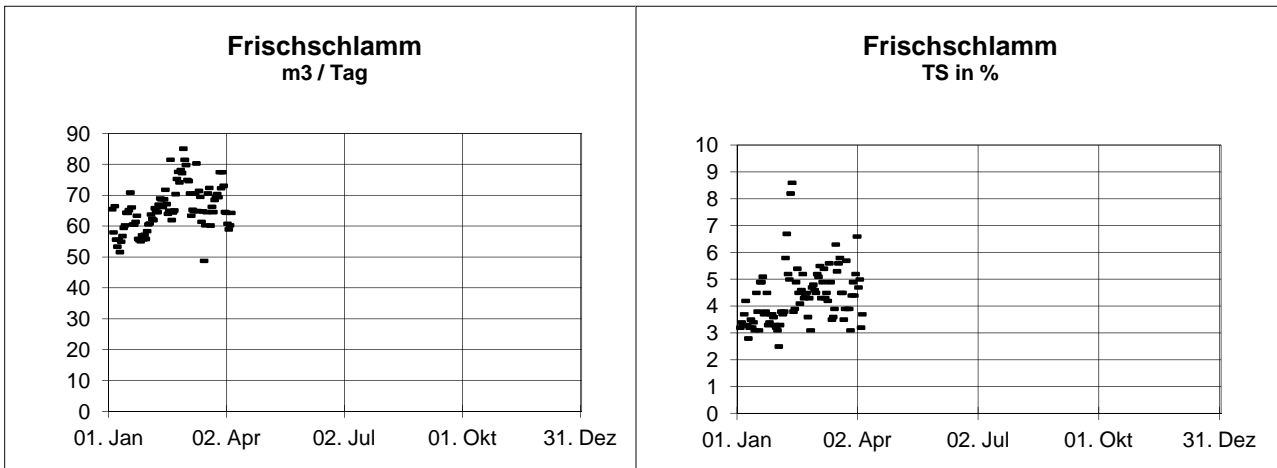
141 kg / Tag
84%
90%

Phosphor-Frachten in kg / Tag



P-Elimination

29 kg / Tag
75%
80%

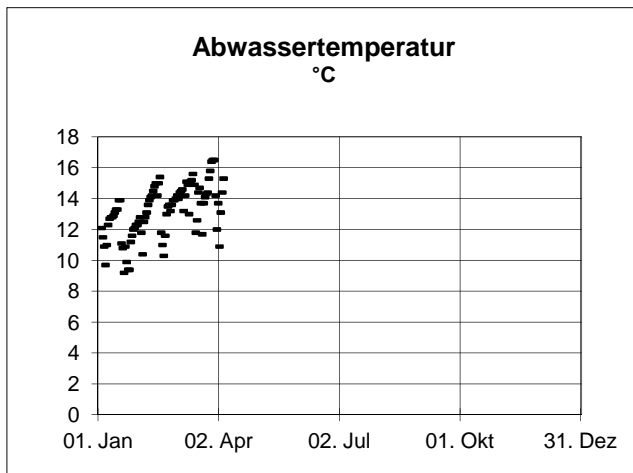


Frischschlammmanfall: Mittelwerte

Frischschl. nass	65.7	m3/Tag
TS-Anteil	4.4	%
Frischschl. in TS	2'857	kg/Tag

Jahresanfall

Frischschl. in TS	1'043	t/ Jahr
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Abwassertemperatur:

Mittelwert	13.2 °C
20%-Wert	11.7 °C
50%-Wert	13.3 °C
80%-Wert	14.5 °C

Bemerkungen zur Datenauswertung: