

	Q bio m ³ / Tag	Q min l / s	Q max l / s
Mittelwert	13'895		
20%-Wert	9'165	61	200
50%-Wert	11'106	80	222
80%-Wert	18'530	109	483
Q tw 1)	10'135	71	211
2 Q tw			422

1) Mittel aus 20% und 50%-Wert

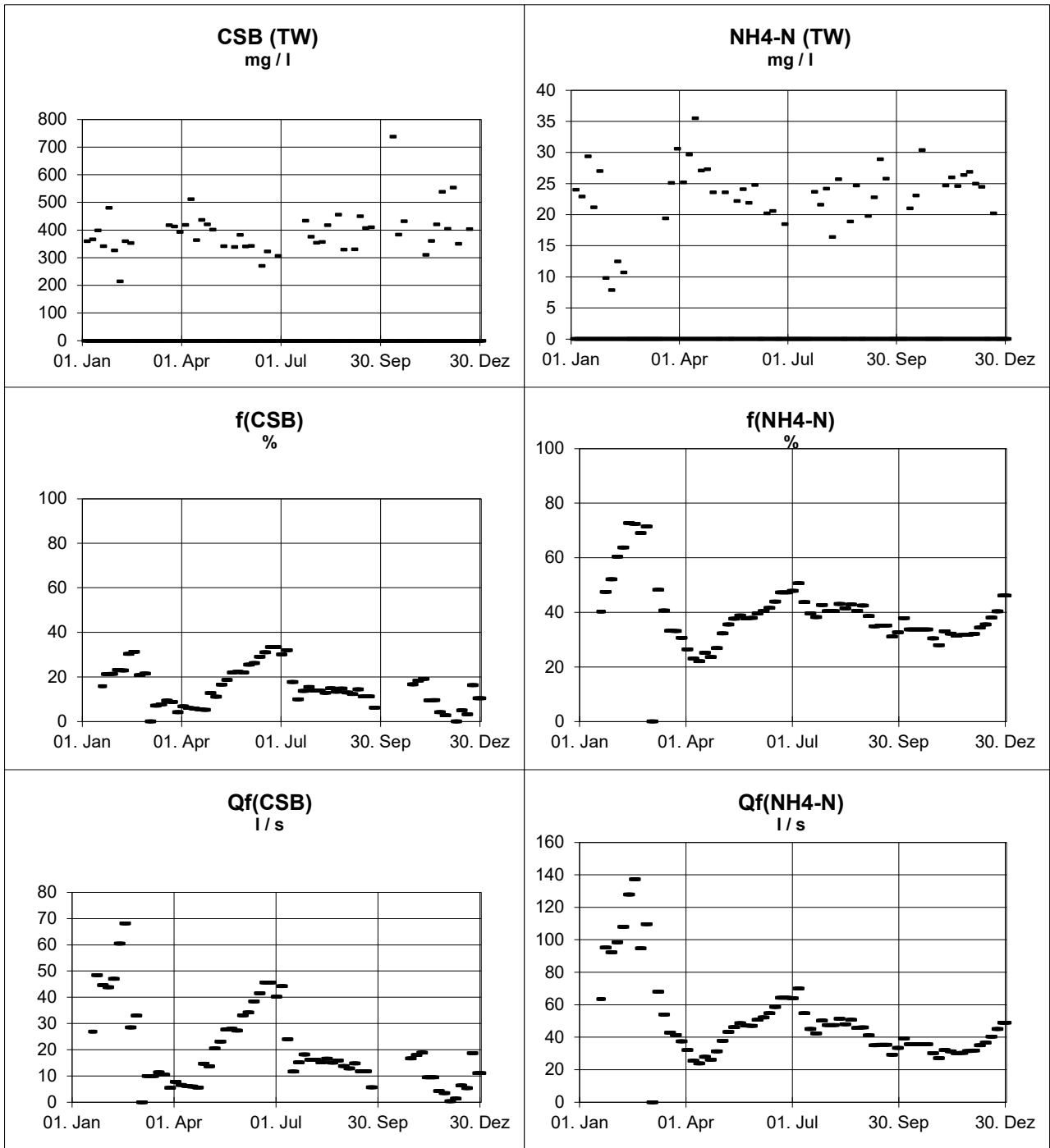
Fremdwasseranteil 17 %

siehe Seite 2

	Tagesmittelwerte	
	m³ / d	l / s
Q tw	10'135	117
Q fremd ²⁾	1'772	21
Q schmutz ³⁾	8'363	97

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

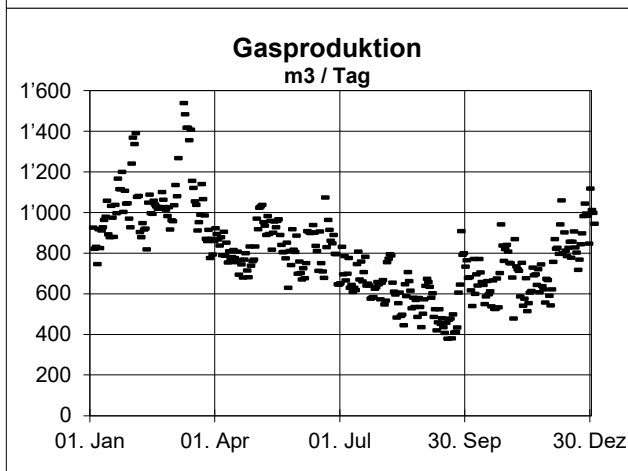
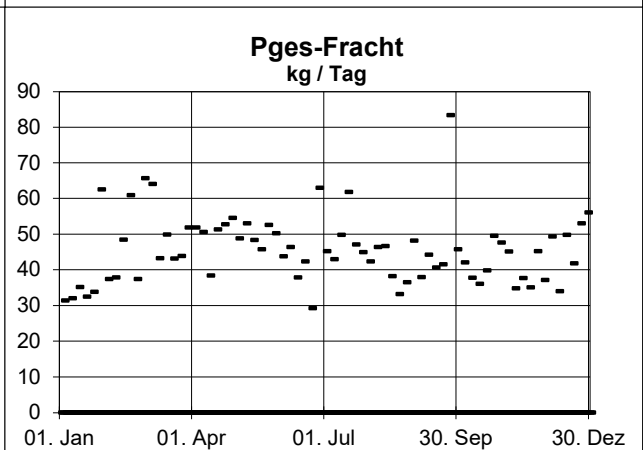
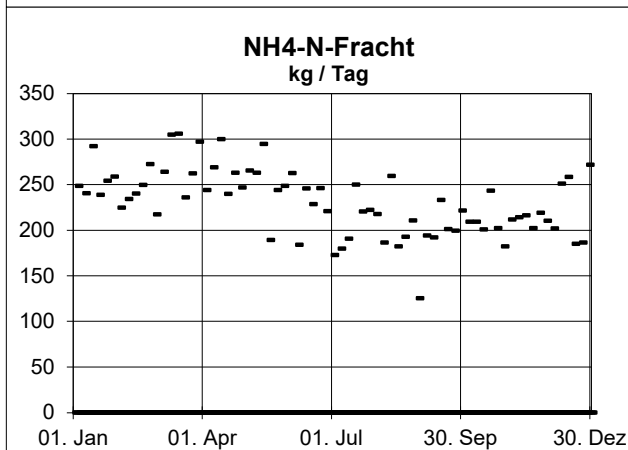
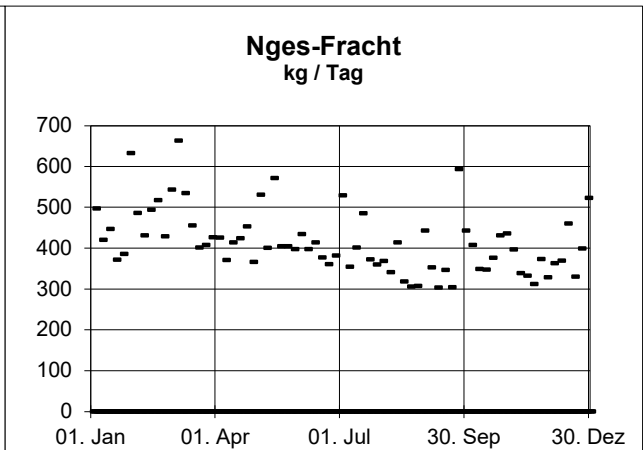
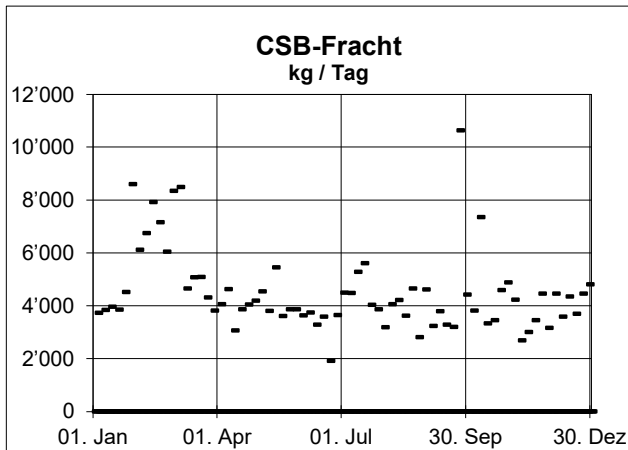
Q tw	10'135 m3 / Tag
Q schmutz (EW) ¹⁾	10'000 m3 / Tag
Q fremd (EW)	135 m3 / Tag
f (EW)	1 %

¹⁾ 200 l / EW * Tag

Schätzung aus den Zulaufkonzentrationen:

f(CSB) Jahresmittel	13 %
f(NH4-N) Jahresmittel	38 %

f Mittelwert	17 %
f gewählt	17 %

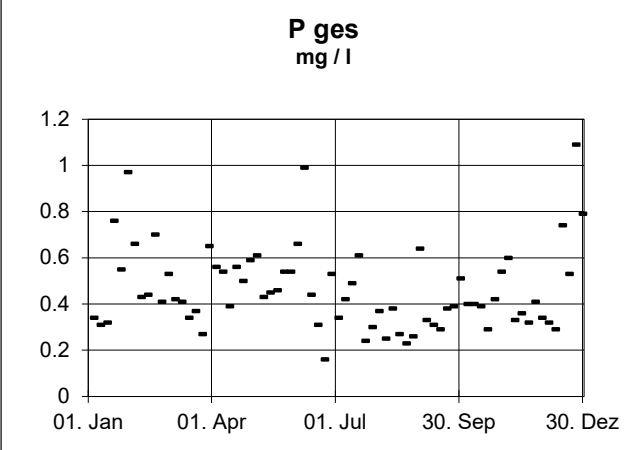
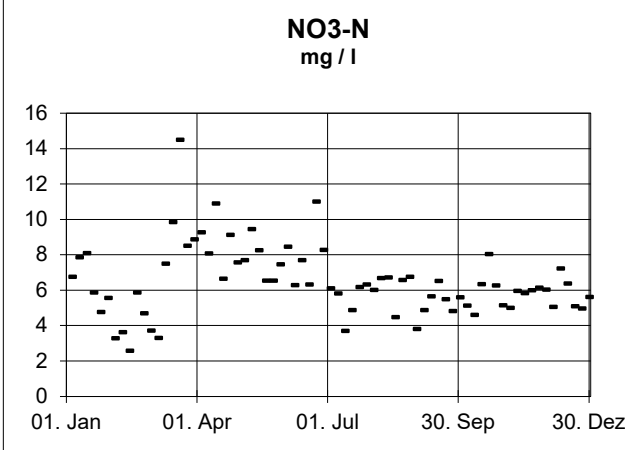
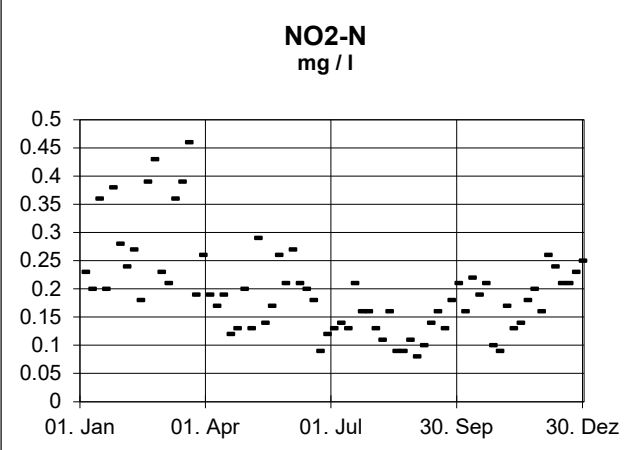
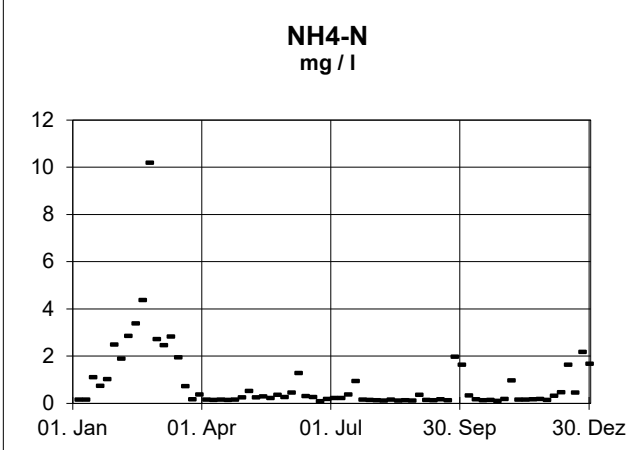
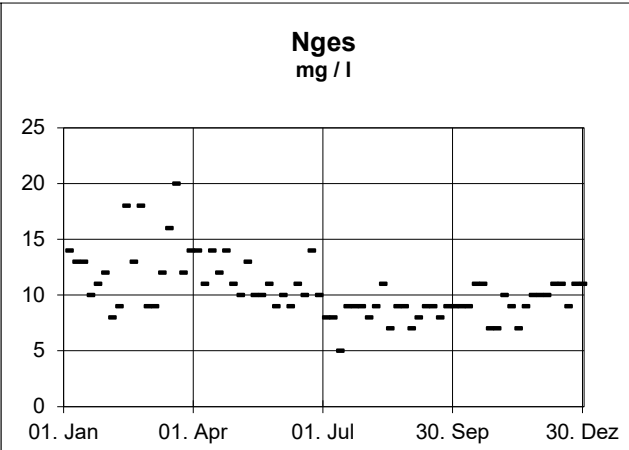
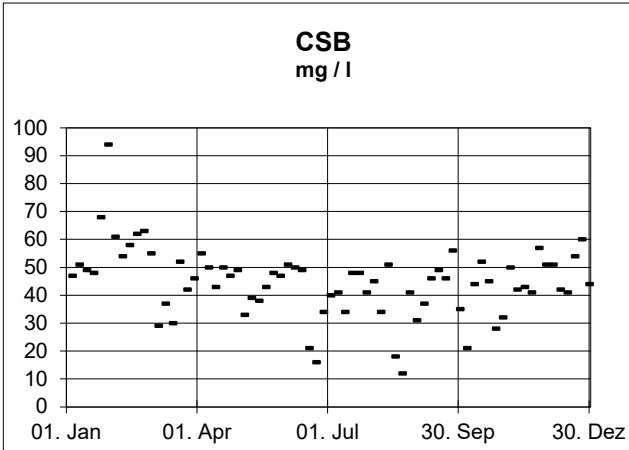


EZ angeschlossen	20'000
EW biochem. gewählt	50'000
EW biochem. 80%-Wert	56'000
EW Stickstoff	31'000
EW Phosphor	28'000

Zulauffrachten	BSB5 kg/Tag	CSB kg/Tag	NH4-N kg/Tag	Pges kg/Tag	Gasp. m3/Tag	FS kg/Tag
Mittelwert		4'499	230	46	804	2'462
50%-Wert		4'056	233	45	791	
80%-Wert		4'998	261	52	964	

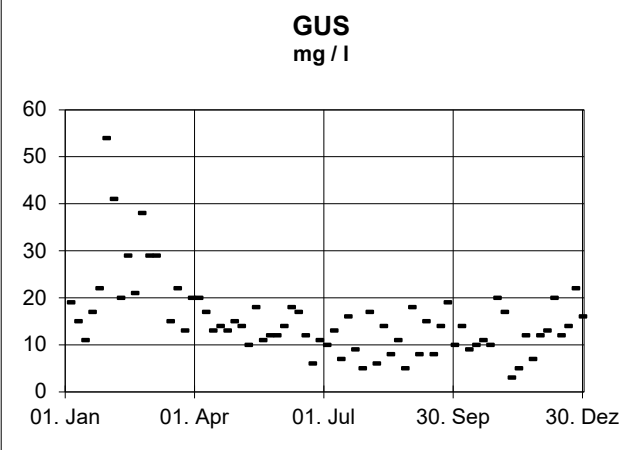
spezifische Belastung pro EW	g / Tag	g / Tag	g / Tag	g / Tag	Probenahmeort: ab VKB	l / Tag	g / Tag
	45	90	7.5	1.6		30	85

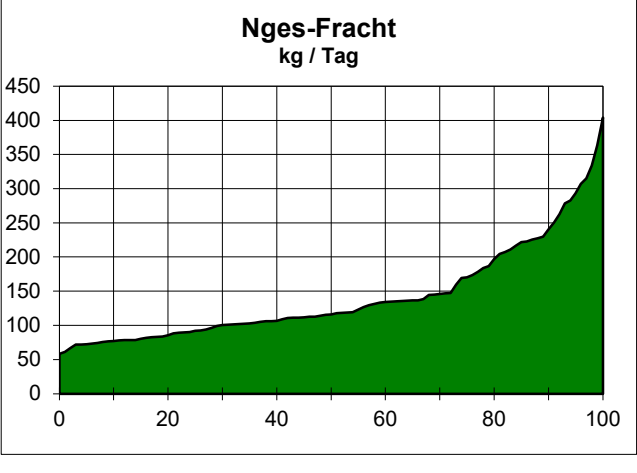
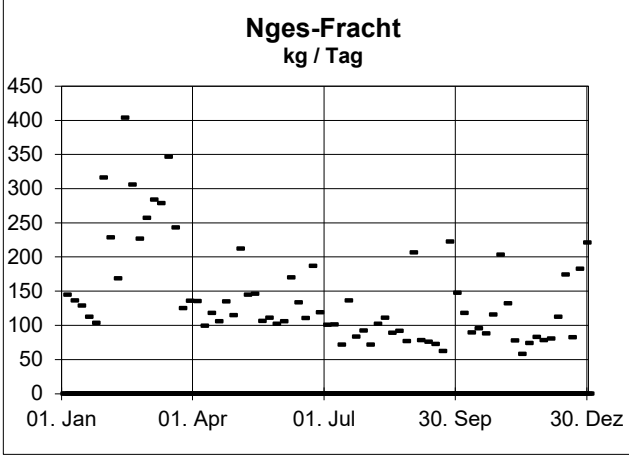
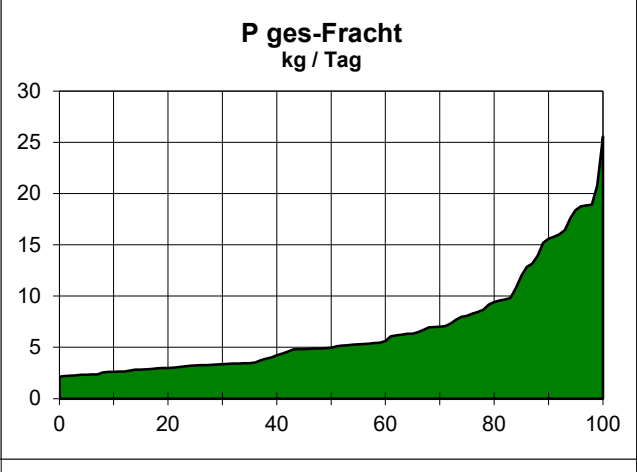
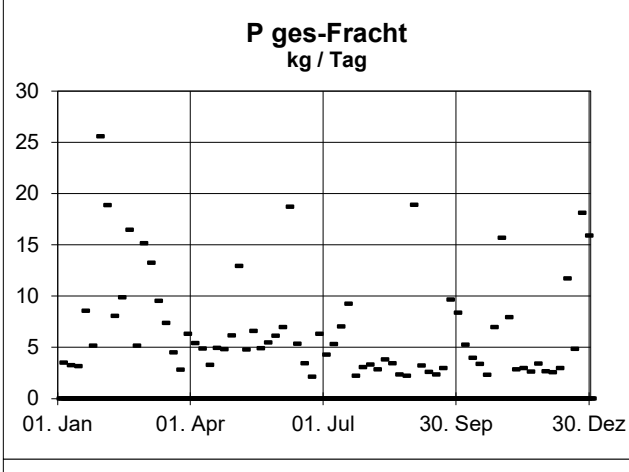
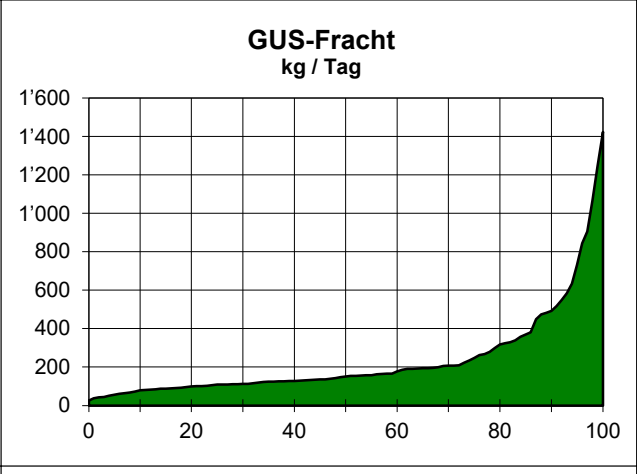
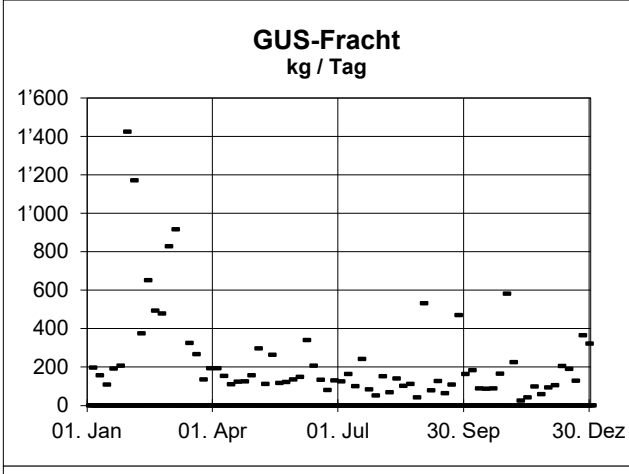
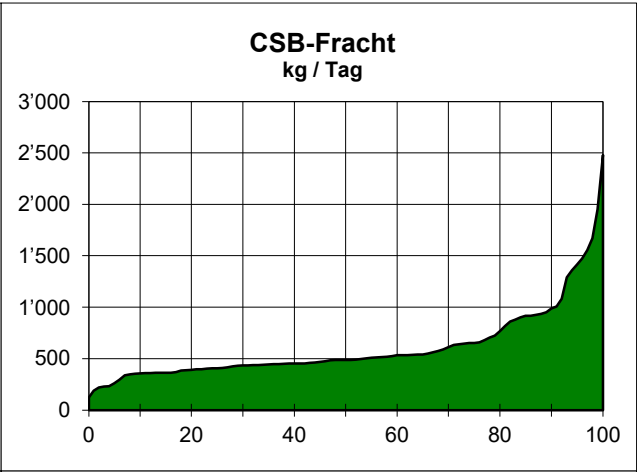
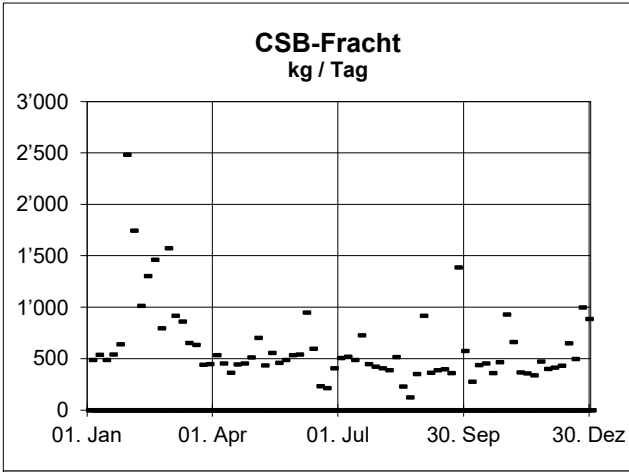
Einwohnerwerte	BSB5 EW	CSB EW	NH4-N EW	Pges EW	Mittelwerte EW	Gasp. EW	FS EW
Mittelwert		49'991	30'730	28'448	36'390	26'809	28'965
50%-Wert		45'070	31'089	28'194	34'784	26'350	
80%-Wert		55'538	34'817	32'286	40'880	32'133	

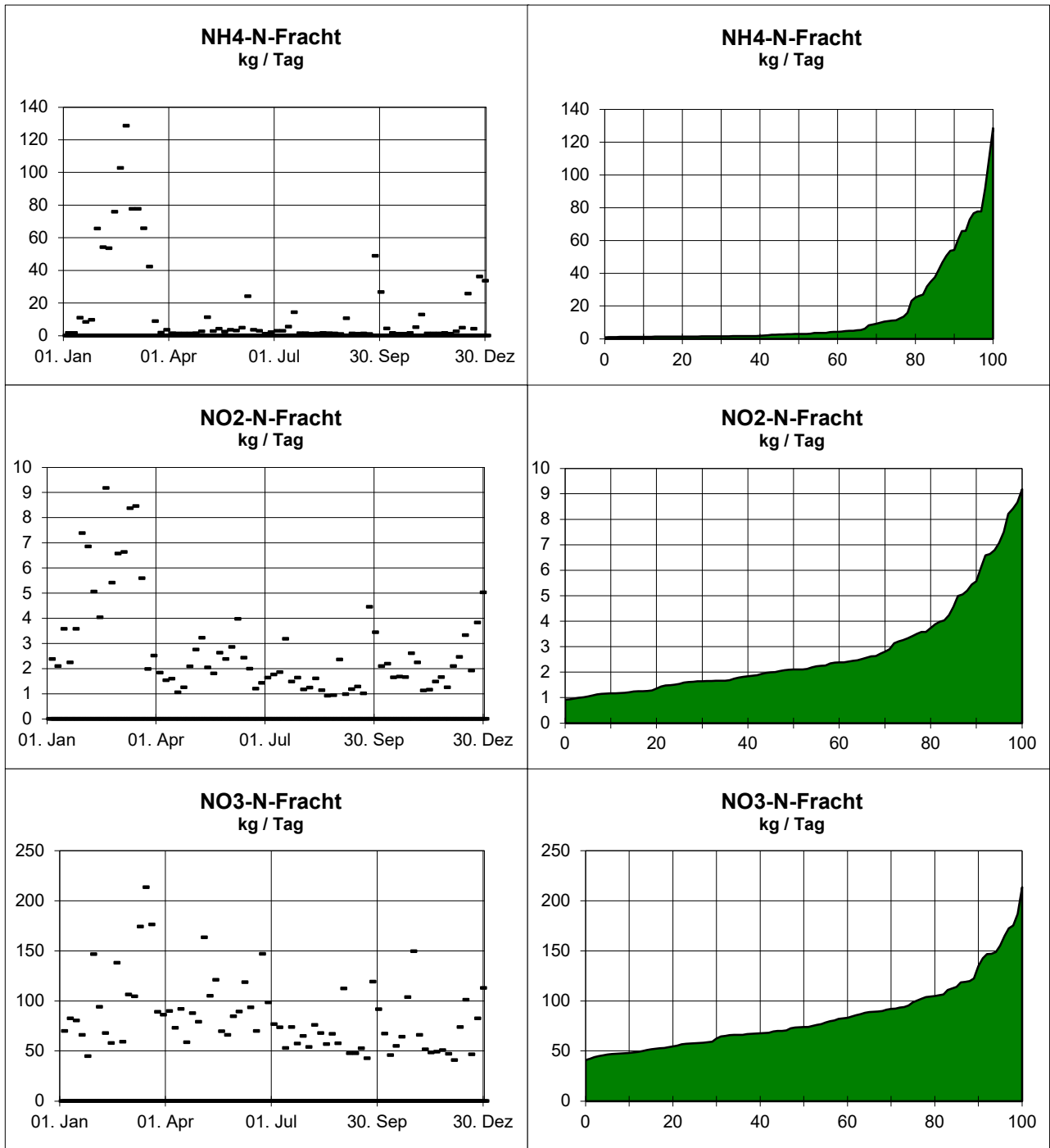


Angaben in mg/l	Mittelwert	90%-Wert	Grenzwert ¹⁾
BSB5			15
CSB	44.7	56.8	
GUS	15.3	22.0	15
NH4-N	0.9	2.4	2
NO2-N²⁾	0.2	0.3	0.3
NO3-N	6.5	8.8	
P ges	0.46	0.66	0.8

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





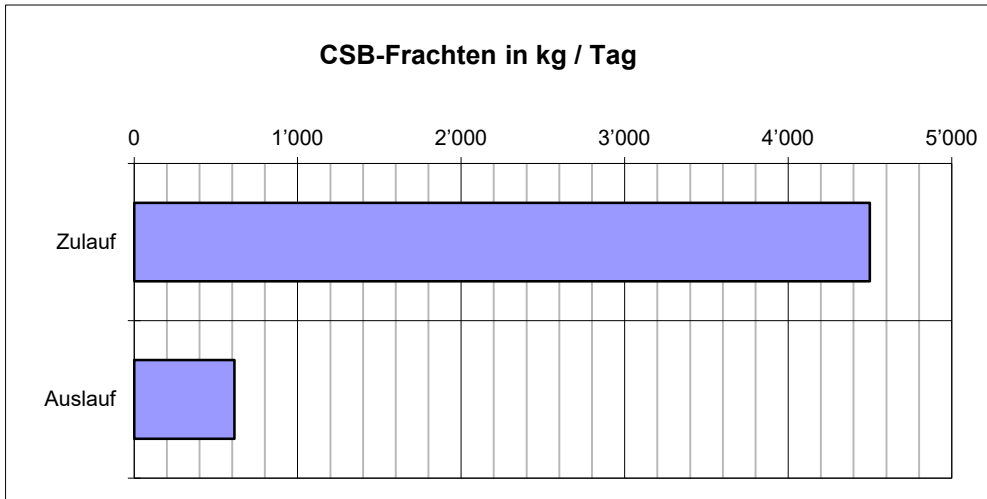


Auslauffrachten:

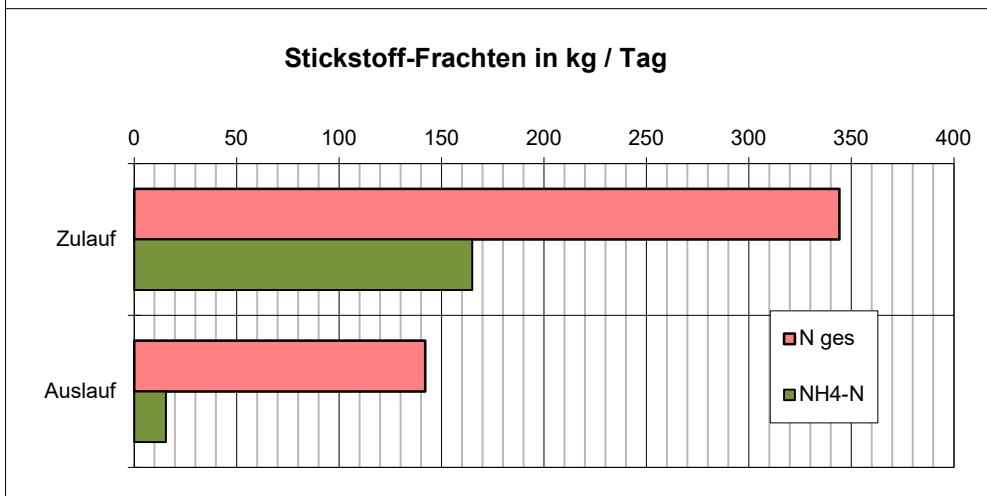
Angaben in kg/Tag	Mittel- wert	50%- Wert	80%- Wert	Mittel 5 - 95 %
CSB	613	487	768	567
GUS	237	151	317	199
Nges	142	116	197	135
NH4-N	15.6	2.9	25.2	11.7
NO2-N	2.8	2.1	3.7	2.6
NO3-N	83.8	73.8	105.0	80.5
P ges	6.8	5.0	9.4	6.2

Abbauleistungen:

	Zulauf kg / Tag	Auslauf kg / Tag	Abbau	Grenz- wert
CSB	4'499	613	86%	80%
N ges	344.2	142.2	59%	30%
NH4-N	165.0	15.6	91%	90%
Pges	45.5	6.8	85%	80%

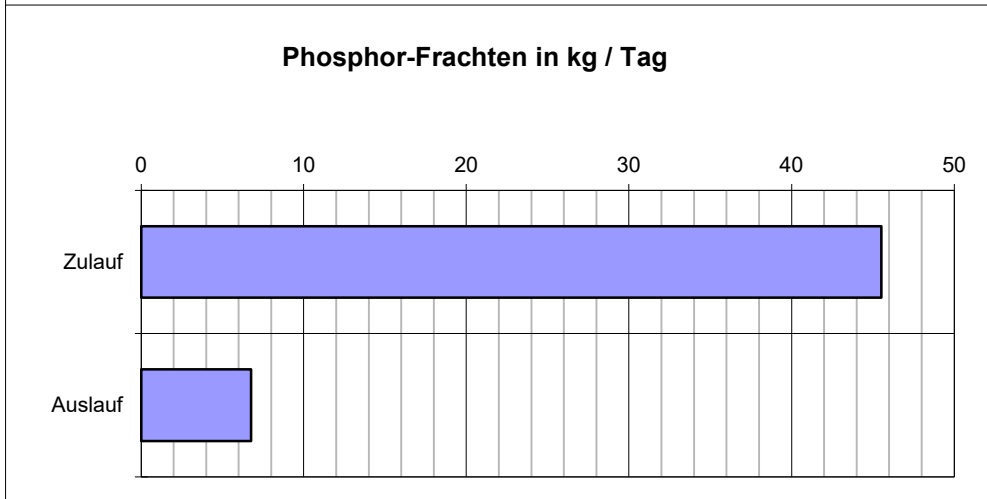


CSB-Abbau	
3'886 kg / Tag	86%
80%	Richtwert

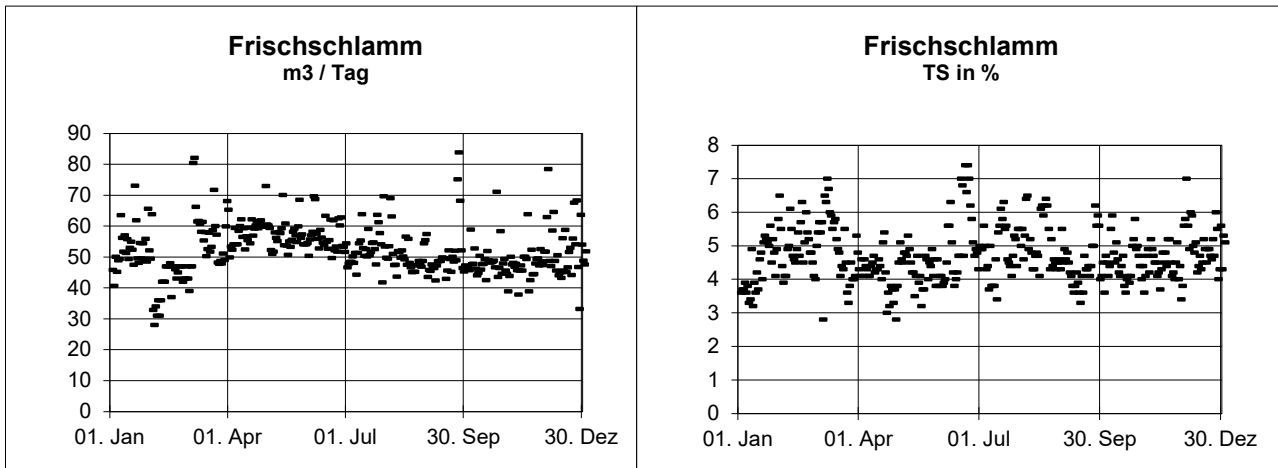


N-Elimination	
202 kg / Tag	59%
30%	

Nitrifikation	
149 kg / Tag	91%
90%	



P-Elimination	
39 kg / Tag	85%
80%	

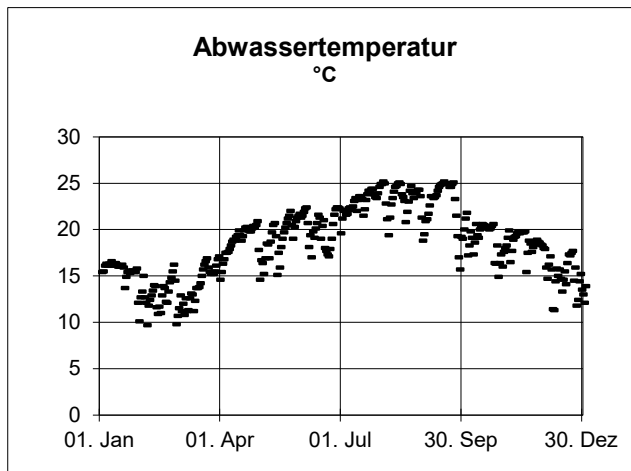


Frischschlammmanfall: Mittelwerte

Frischschl. nass	52.3	m3/Tag
TS-Anteil	4.7	%
Frischschl. in TS	2'462	kg/Tag

Jahresanfall

Frischschl. in TS	899	t / Jahr
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Abwassertemperatur:

Mittelwert	18.5	°C
20%-Wert	15.2	°C
50%-Wert	18.8	°C
80%-Wert	22.1	°C

Bemerkungen zur Datenauswertung: