

	<b>Q bio</b> m <sup>3</sup> / Tag	<b>Q min</b> l/s	<b>Q max</b> l/s
<b>Mittelwert</b>	14'475		
<b>20%-Wert</b>	9'224	68	224
<b>50%-Wert</b>	12'016	86	276
<b>80%-Wert</b>	18'530	125	500
<b>Q tw</b> 1)	10'620	77	250
<b>2 Q tw</b>			500

1) Mittel aus 20% und 50%-Wert

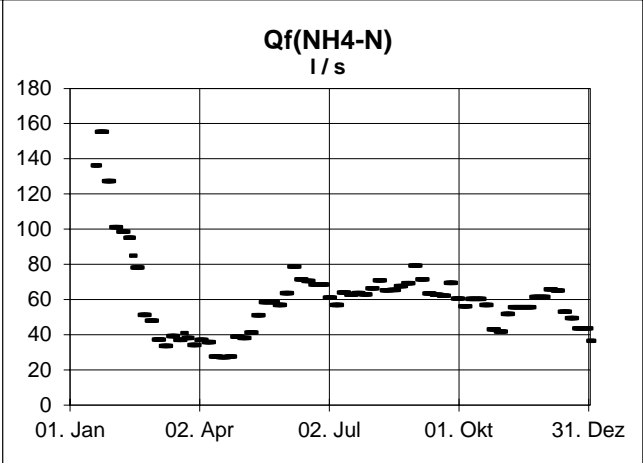
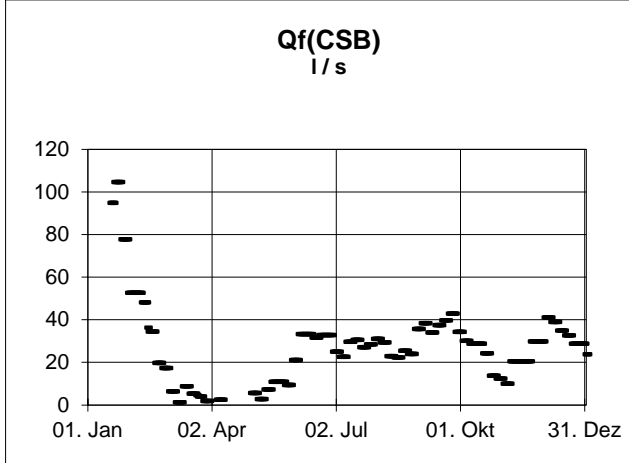
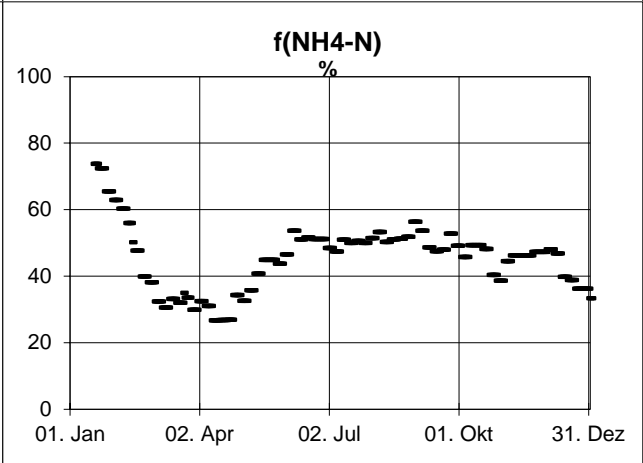
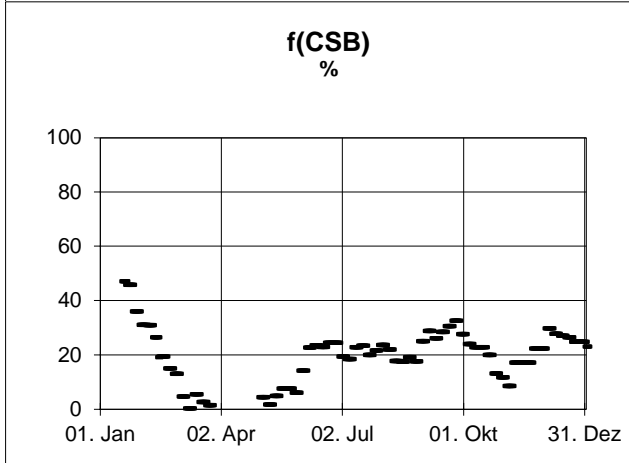
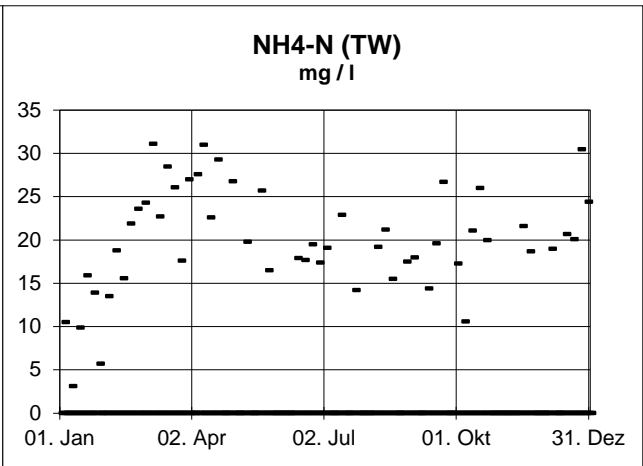
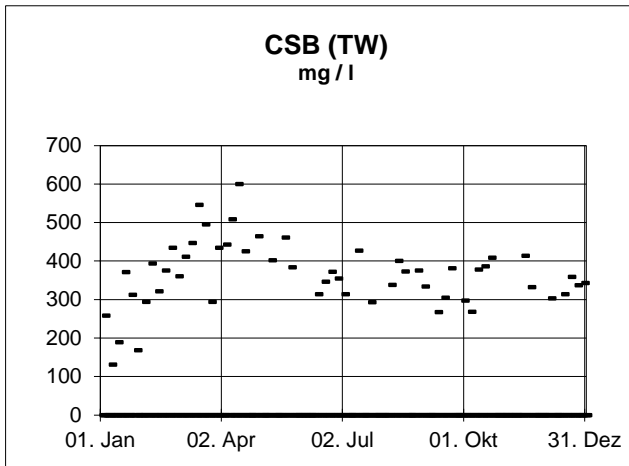
**Fremdwasseranteil 25 %**

siehe Seite 2

	<b>Tagesmittelwerte</b>	
	<b>m<sup>3</sup> / d</b>	<b>l/s</b>
<b>Q tw</b>	10'620	123
<b>Q fremd</b> <sup>2)</sup>	2'674	31
<b>Q schmutz</b> <sup>3)</sup>	7'946	92

<sup>2)</sup> = Q tw \* Fremdwasseranteil / 100

<sup>3)</sup> = Q tw - Q fremd



**Vorgaben:**

<b>Q schmutz</b>	200 l/EW*Tag
<b>CSB</b>	90 g/EW*Tag
<b>NH4-N</b>	7.5 g/EW*Tag
<b>K soll (CSB)</b>	450 mg / l
<b>K soll (NH4-N)</b>	37.5 mg / l

**K soll:** erwartete Konzentration im Zulauf, wenn nur Schmutzwasser zuläuft!

**Schätzung aus EW biochemisch**

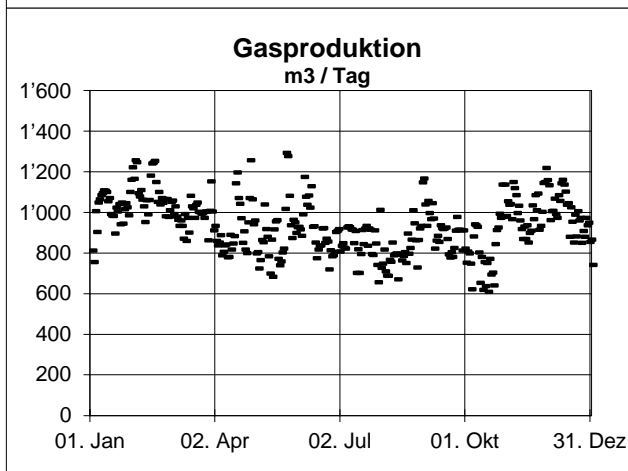
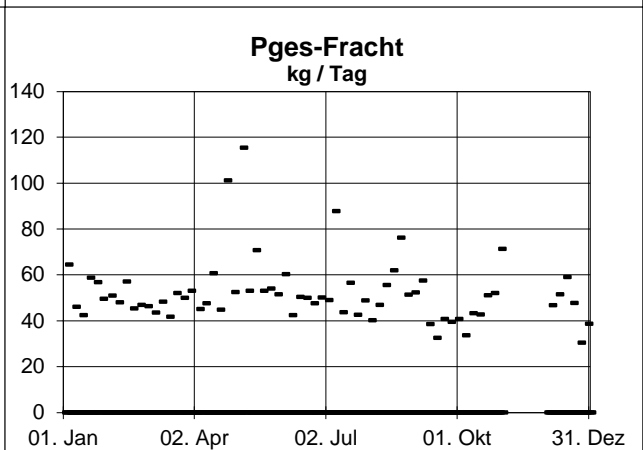
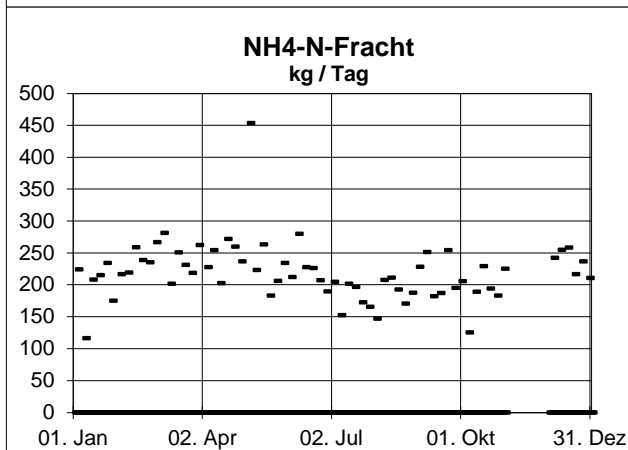
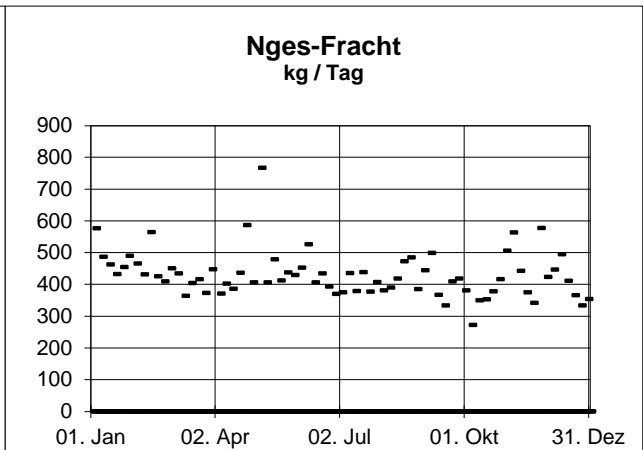
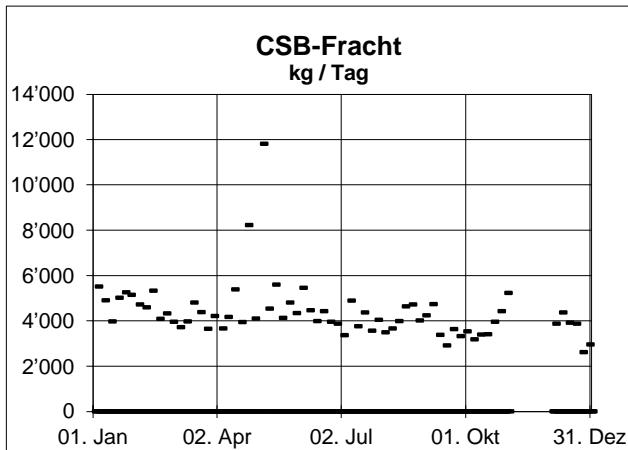
<b>Q tw</b>	10'620 m3 / Tag
<b>Q schmutz (EW) <sup>1)</sup></b>	9'600 m3 / Tag
<b>Q fremd (EW)</b>	1'020 m3 / Tag
<b>f (EW)</b>	10 %

<sup>1)</sup> 200 l / EW \* Tag

**Schätzung aus den Zulaufkonzentrationen:**

<b>f(CSB) Jahresmittel</b>	19 %
<b>f(NH4-N) Jahresmittel</b>	47 %

<b>f Mittelwert</b>	25 %
<b>f gewählt</b>	<b>25 %</b>

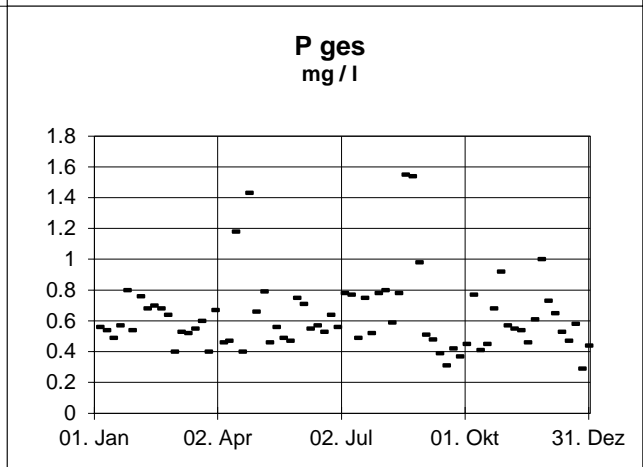
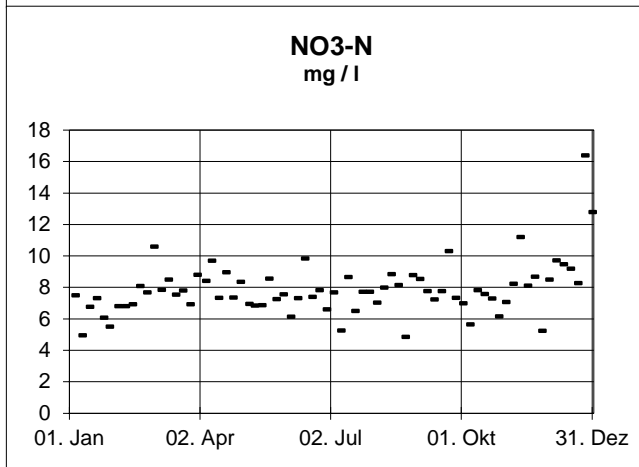
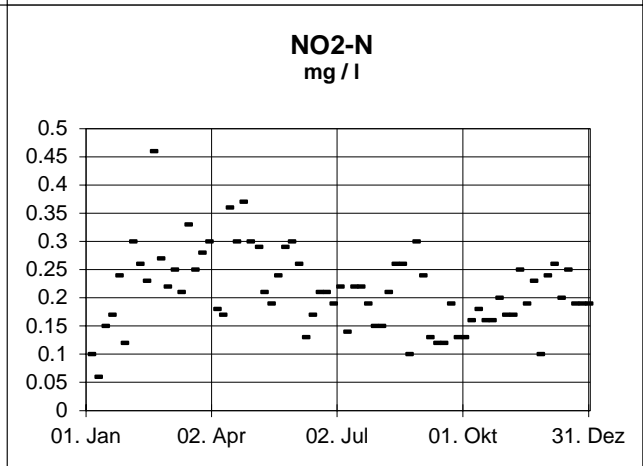
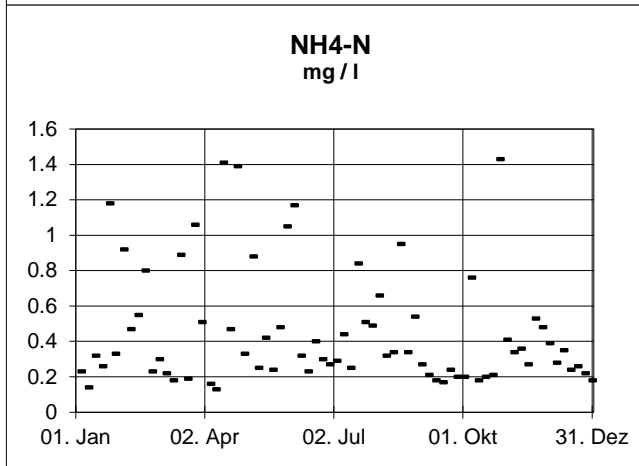
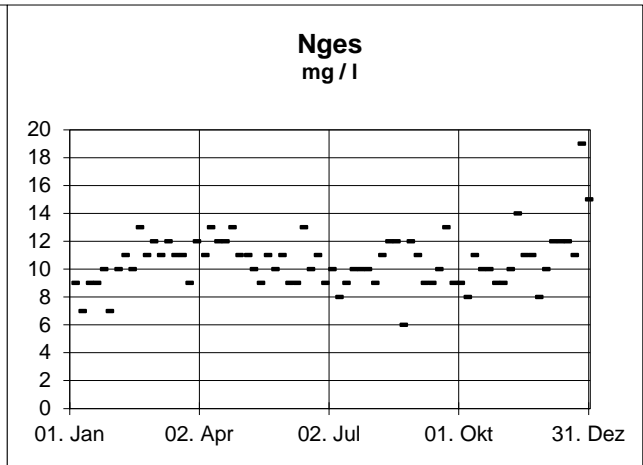
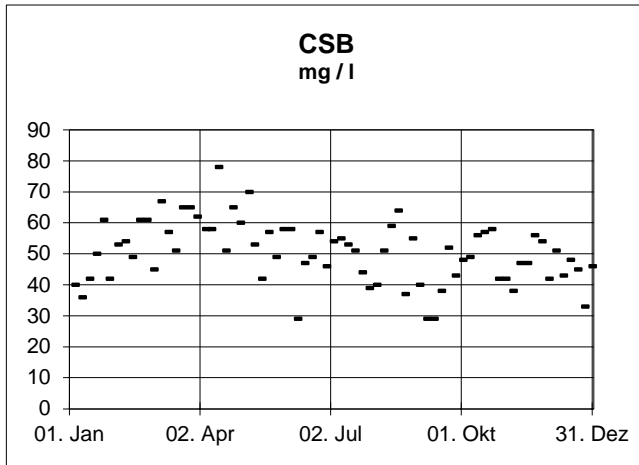


<b>EZ angeschlossen</b>	<b>22'050</b>
<b>EW biochem. gewählt</b>	<b>48'000</b>
<b>EW biochem. 80%-Wert</b>	<b>47'000</b>
<b>EW Stickstoff</b>	<b>29'000</b>
<b>EW Phosphor</b>	<b>33'000</b>

<b>Zulauffrachten</b>	<b>BSB5 kg/Tag</b>	<b>CSB kg/Tag</b>	<b>NH4-N kg/Tag</b>	<b>Pges kg/Tag</b>	<b>Gasp. m3/Tag</b>	<b>FS kg/Tag</b>
<b>Mittelwert</b>	1'639	4'358	219	52	934	2'644
<b>50%-Wert</b>	1'626	4'100	217	50	929	
<b>80%-Wert</b>	1'803	4'805	251	57	1'047	

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

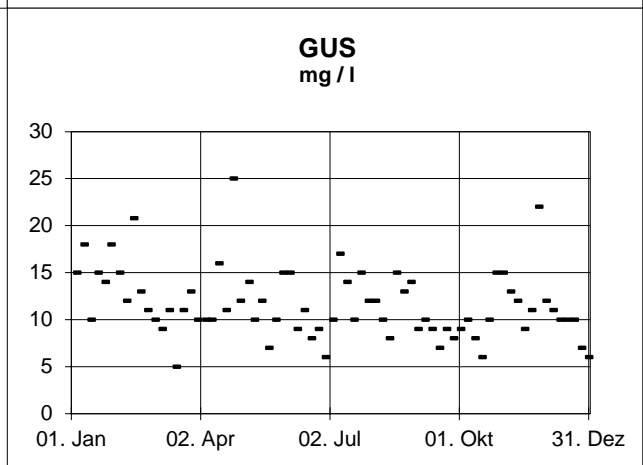
<b>Einwohnerwerte</b>	<b>BSB5 EW</b>	<b>CSB EW</b>	<b>NH4-N EW</b>	<b>Pges EW</b>	<b>Mittelwerte EW</b>	<b>Gasp. EW</b>	<b>FS EW</b>
<b>Mittelwert</b>	36'416	48'422	29'256	32'514	36'652	31'131	31'103
<b>50%-Wert</b>	36'131	45'554	28'933	31'231	35'463	30'967	
<b>80%-Wert</b>	40'057	53'389	33'516	35'647	40'652	34'907	

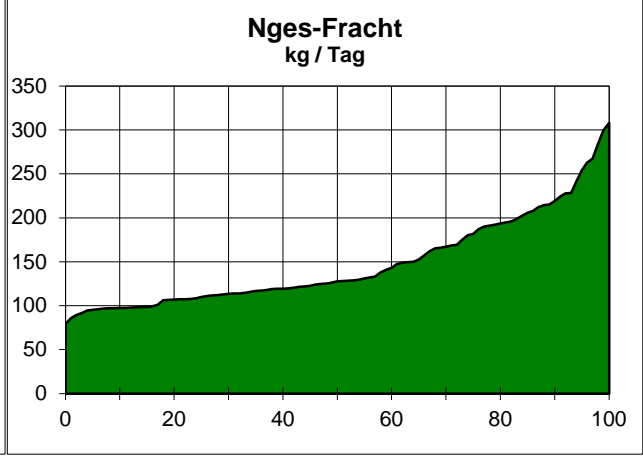
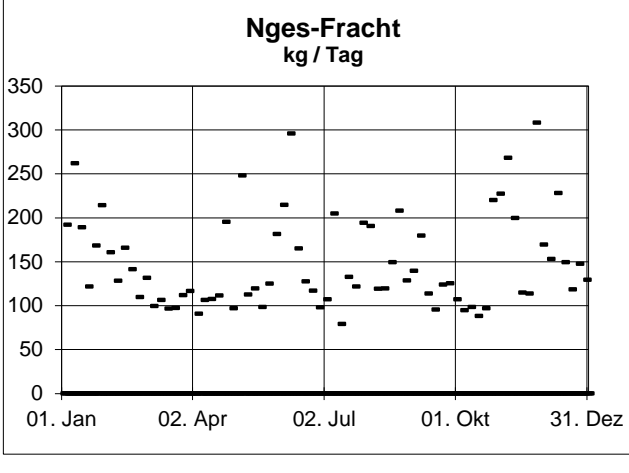
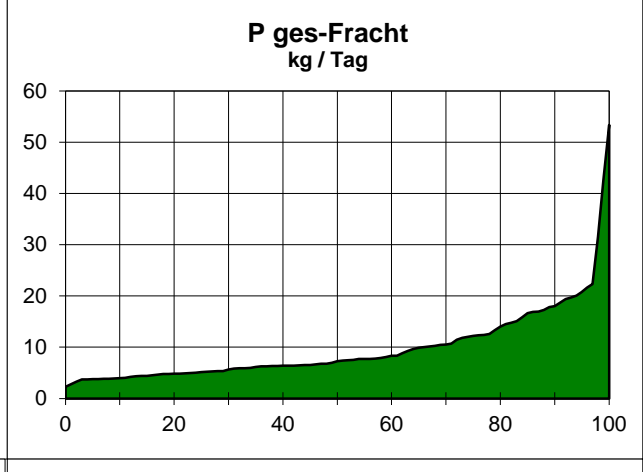
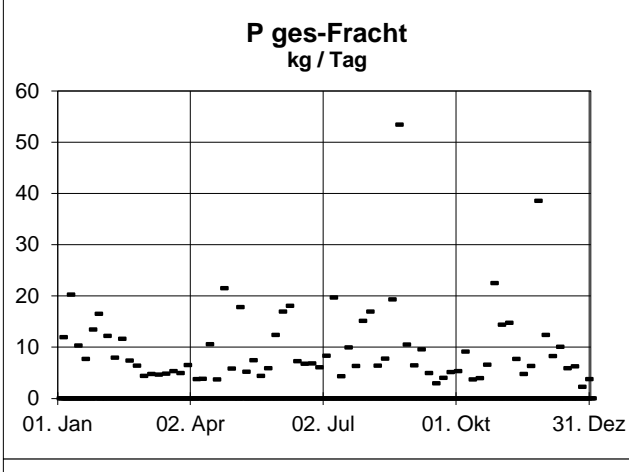
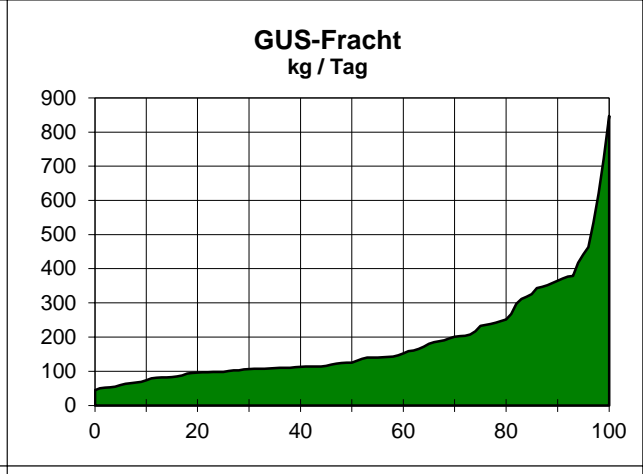
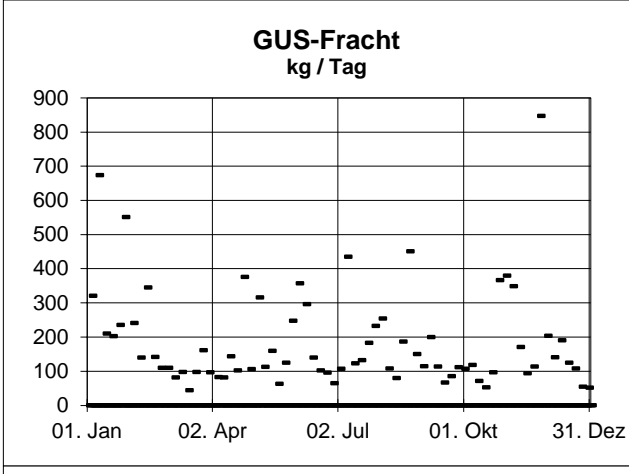
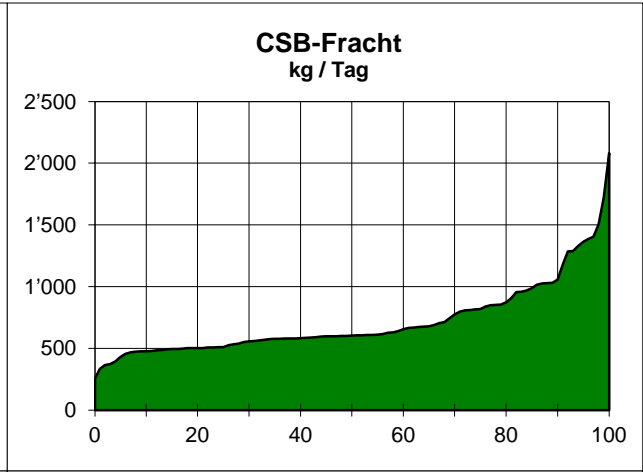
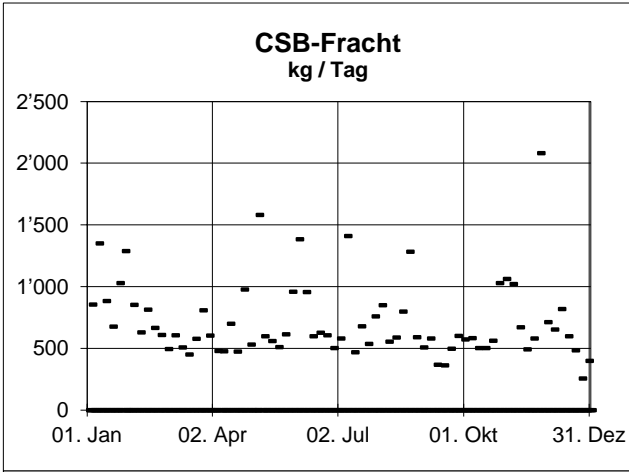


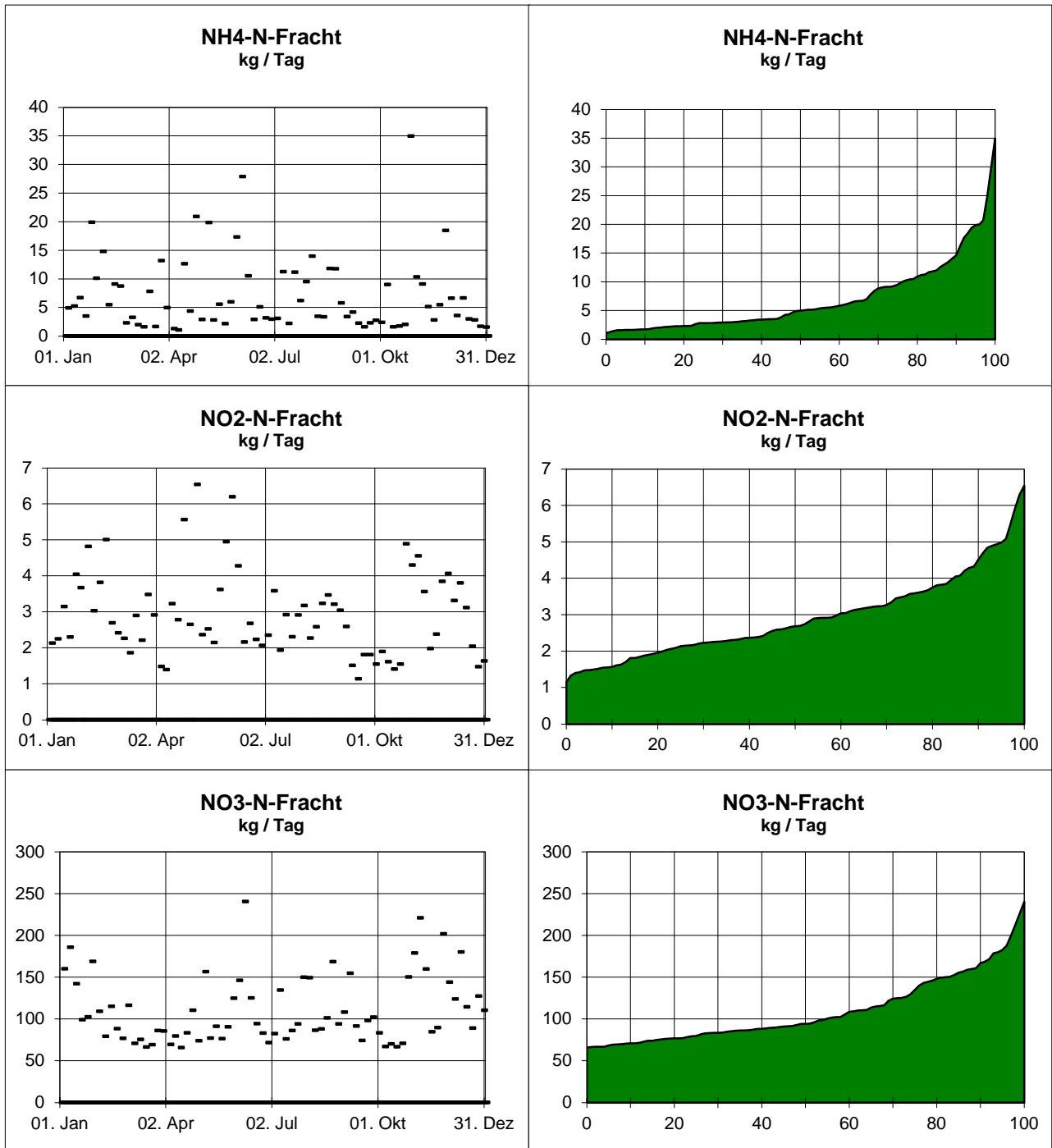
Angaben in mg/l	Mittel- wert	90%- Wert	Grenz- wert <sup>1)</sup>
<b>BSB5</b>			15
<b>CSB</b>	50.4	61.8	
<b>GUS</b>	11.6	15.0	15
<b>NH4-N</b>	0.5	0.9	2
<b>NO2-N <sup>2)</sup></b>	0.2	0.3	0.3
<b>NO3-N</b>	7.9	9.7	
<b>P ges</b>	0.63	0.80	0.8

<sup>1)</sup> nach GSchV vom 28. Oktober 1998

<sup>2)</sup> Richtwert





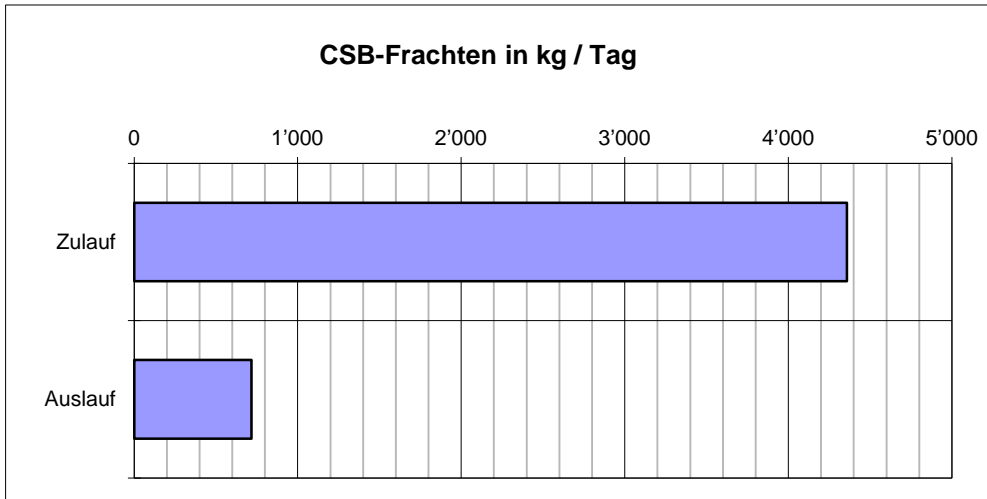


**Auslauffrachten:**

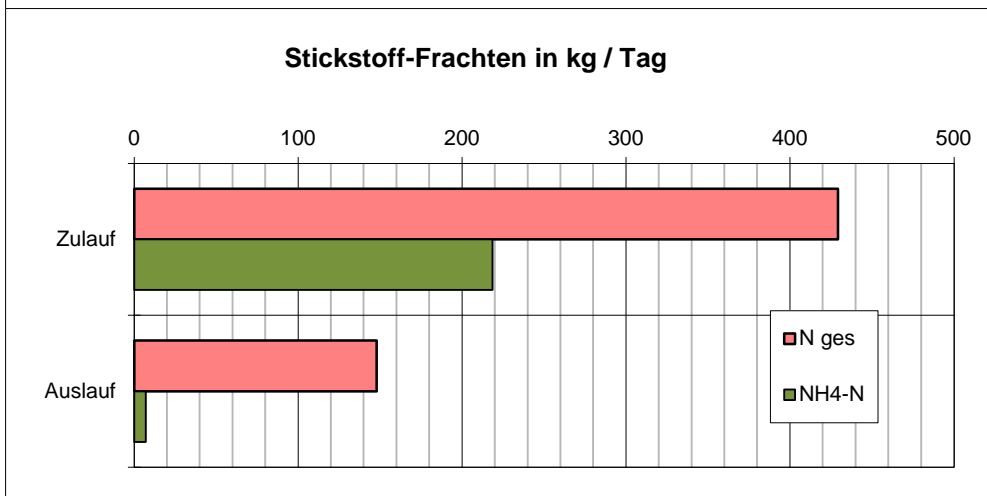
Angaben in kg/Tag	Mittelwert	50%-Wert	80%-Wert	Mittel 5 - 95 %
<b>CSB</b>	717	603	872	687
<b>GUS</b>	186	125	252	168
<b>Nges</b>	148	128	193	144
<b>NH4-N</b>	7.0	5.0	10.9	6.3
<b>NO2-N</b>	2.9	2.7	3.8	2.8
<b>NO3-N</b>	110.1	94.2	148.0	106.6
<b>P ges</b>	9.9	7.2	14.0	8.9

**Abbauleistungen:**

	Zulauf kg / Tag	Auslauf kg / Tag	Abbau	Grenz- wert
<b>CSB</b>	4'358	717	84%	80%
<b>N ges</b>	429.4	147.9	66%	30%
<b>NH4-N</b>	218.7	7.0	97%	90%
<b>Pges</b>	52.0	9.9	81%	80%

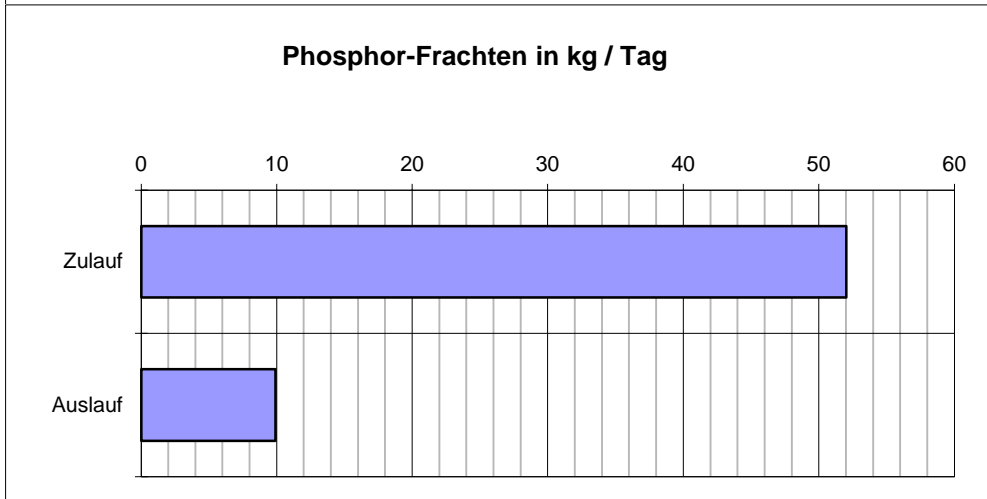


<b>CSB-Abbau</b>	
3'640 kg / Tag	84%
80%	Richtwert

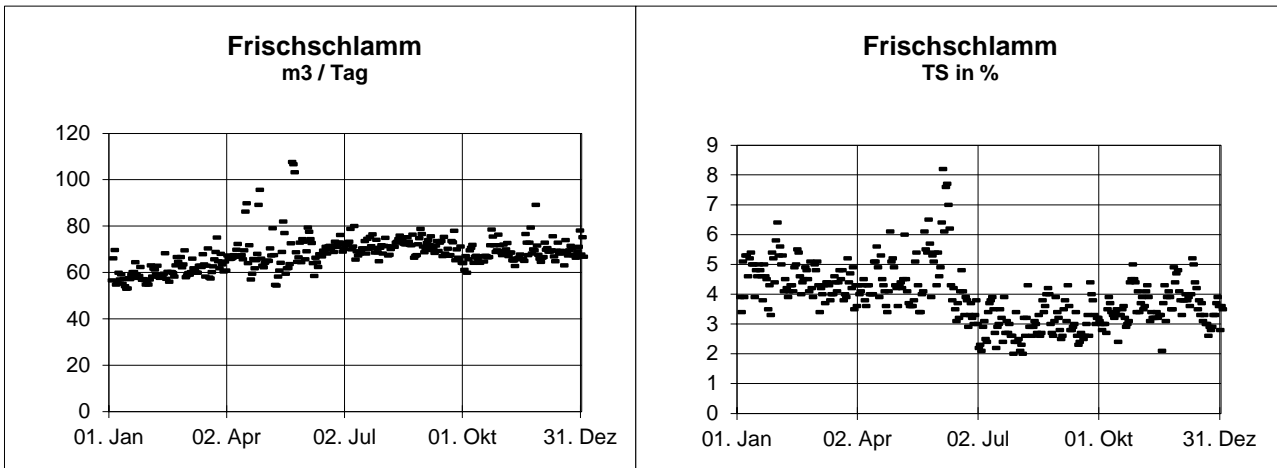


<b>N-Elimination</b>	
281 kg / Tag	66%
30%	

<b>Nitrifikation</b>	
212 kg / Tag	97%
90%	



<b>P-Elimination</b>	
42 kg / Tag	81%
80%	

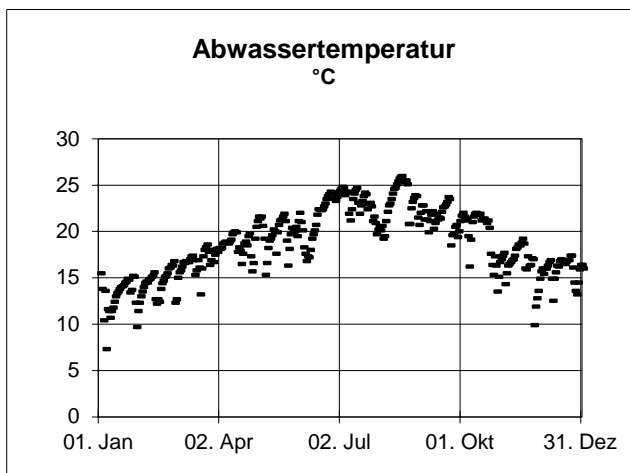


**Frischschlammmanfall: Mittelwerte**

<b>Frischschl. nass</b>	67.8	m <sup>3</sup> /Tag
<b>TS-Anteil</b>	3.9	%
<b>Frischschl. in TS</b>	2'644	kg/Tag

**Jahresanfall**

<b>Frischschl. in TS</b>	965	t / Jahr
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**Abwassertemperatur:**

<b>Mittelwert</b>	18.7	°C
<b>20%-Wert</b>	15.5	°C
<b>50%-Wert</b>	18.6	°C
<b>80%-Wert</b>	22.0	°C

**Bemerkungen zur Datenauswertung:**