

	<b>Q bio</b> <b>m3 / Tag</b>	<b>Q min</b> <b>l / s</b>	<b>Q max</b> <b>l / s</b>
<b>Mittelwert</b>	18'006		
<b>20%-Wert</b>	10'965	85	240
<b>50%-Wert</b>	13'922	111	304
<b>80%-Wert</b>	25'007	191	491
<b>Q tw</b> 1)	12'443	98	272
<b>2 Q tw</b>			544

1) Mittel aus 20% und 50%-Wert

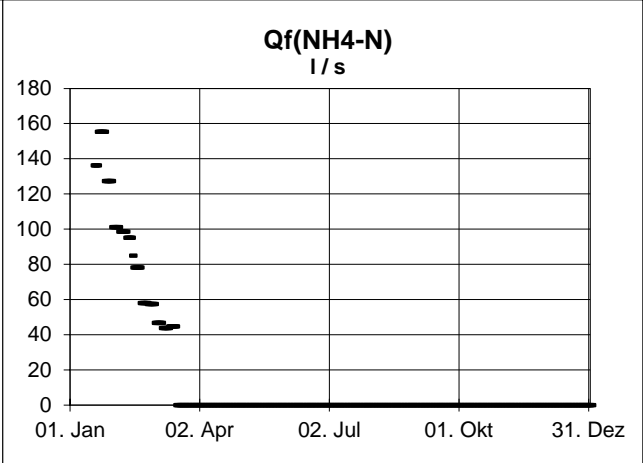
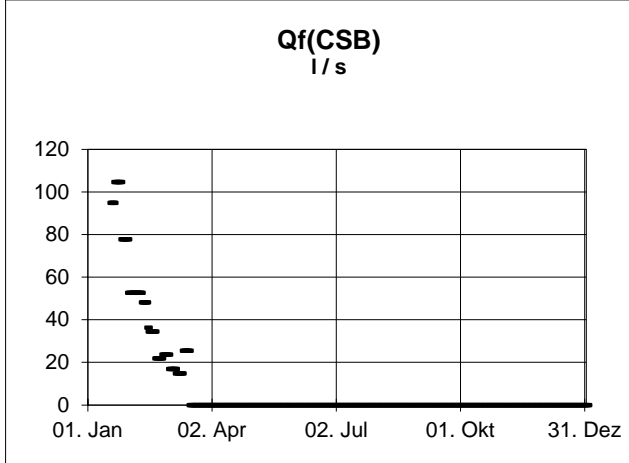
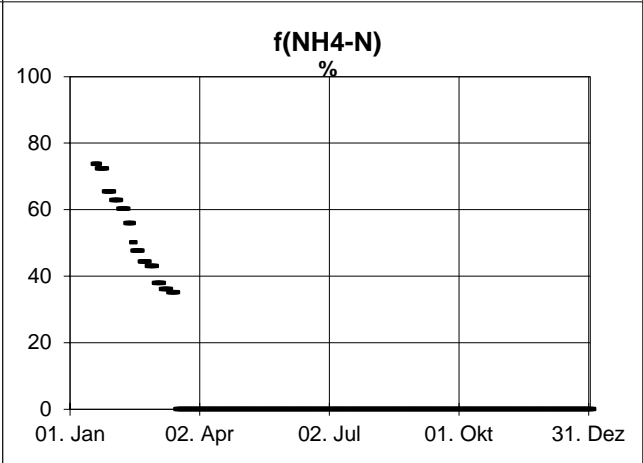
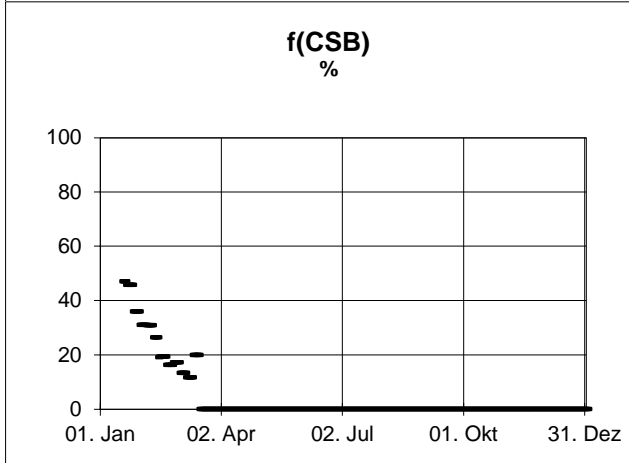
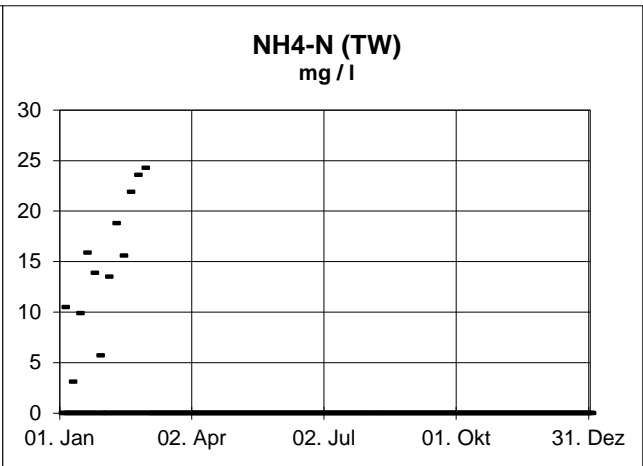
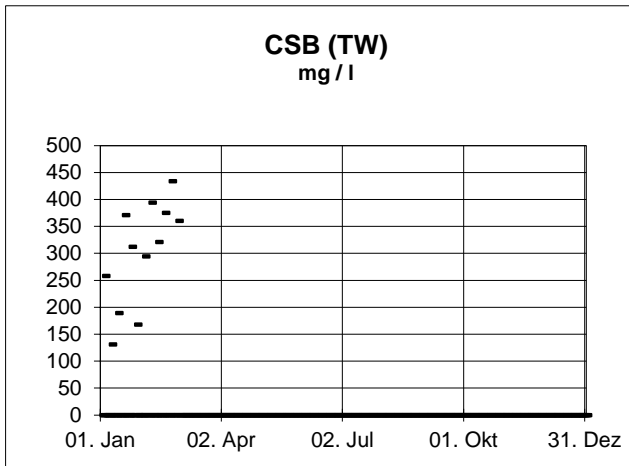
**Fremdwasseranteil 36 %**

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	<b>Tagesmittelwerte</b>	
	<b>m3 / d</b>	<b>l / s</b>
<b>Q tw</b>	12'443	144
<b>Q fremd</b> 2)	4'511	52
<b>Q schmutz</b> 3)	7'933	92

2) = Q tw \* Fremdwasseranteil / 100

3) = 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**

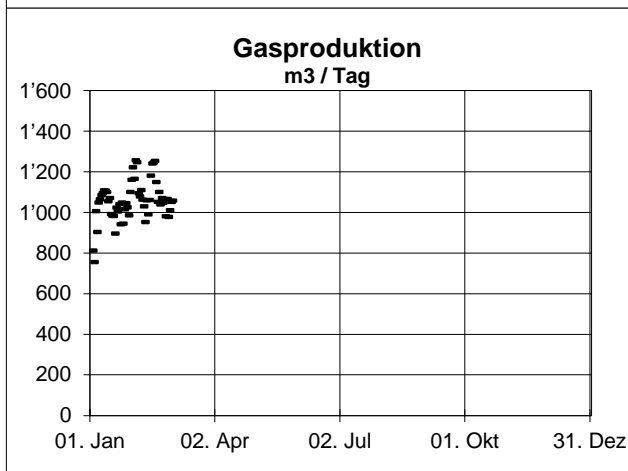
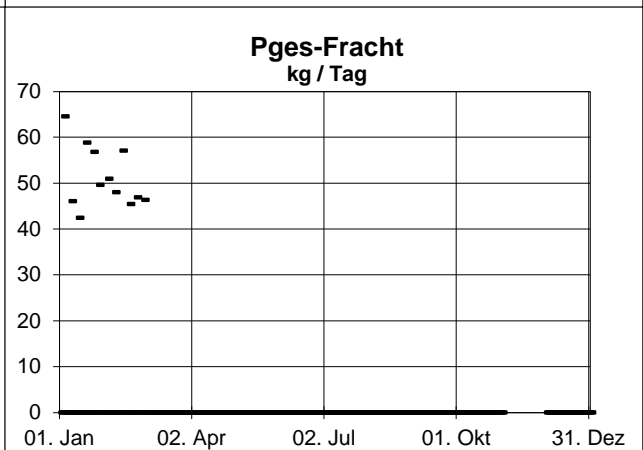
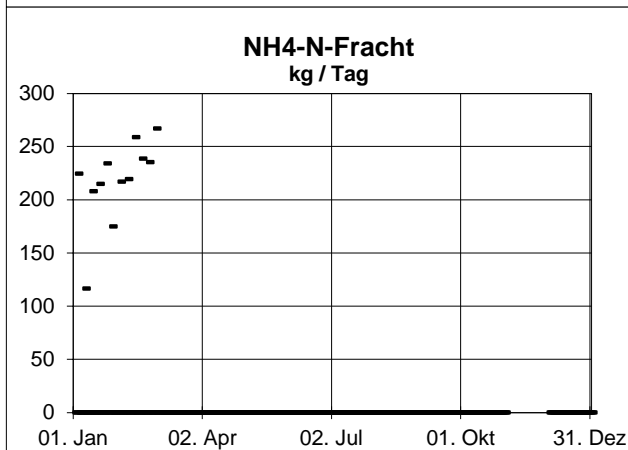
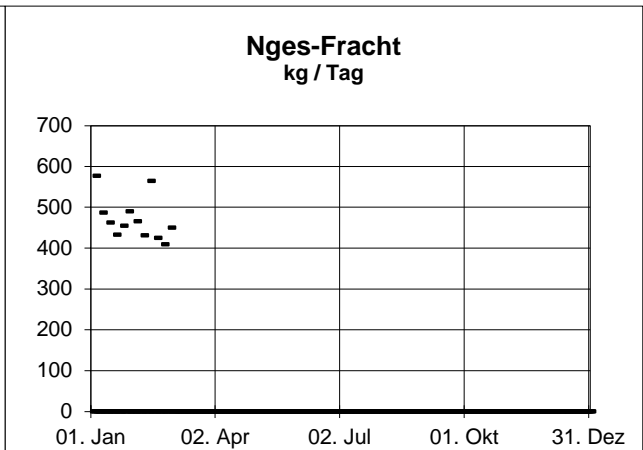
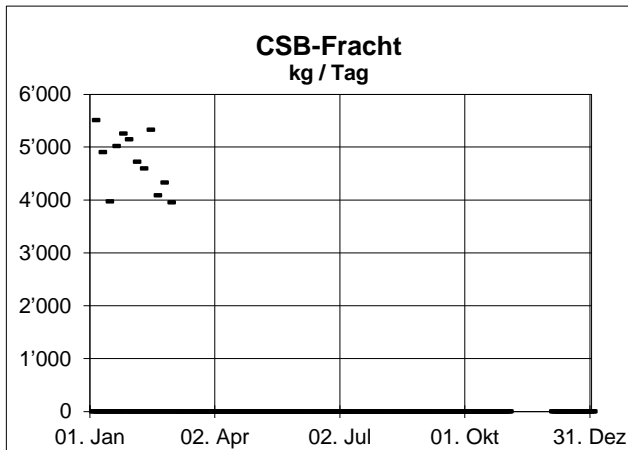
<b>Q tw</b>	12'443 m3 / Tag
<b>Q schmutz (EW) <sup>1)</sup></b>	10'600 m3 / Tag
<b>Q fremd (EW)</b>	1'843 m3 / Tag
<b>f (EW)</b>	15 %

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

**Schätzung aus den Zulaufkonzentrationen:**

<b>f(CSB) Jahresmittel</b>	33 %
<b>f(NH4-N) Jahresmittel</b>	61 %

<b>f Mittelwert</b>	36 %
<b>f gewählt</b>	<b>36 %</b>

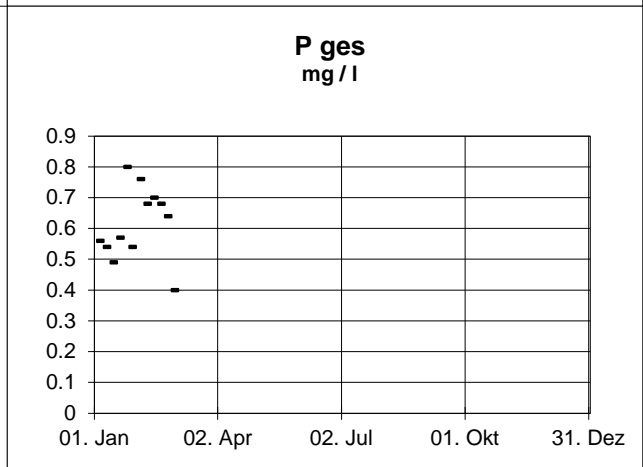
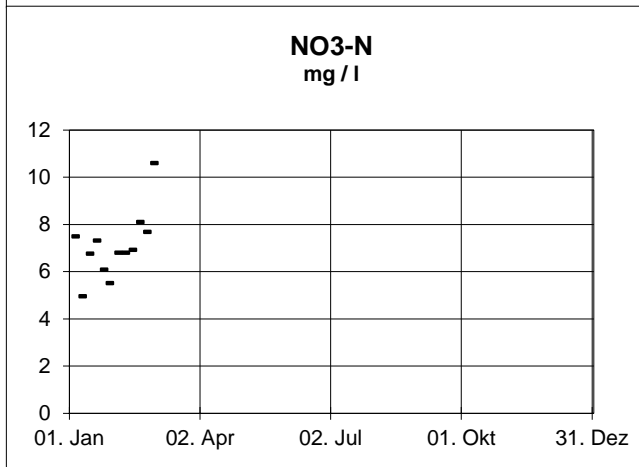
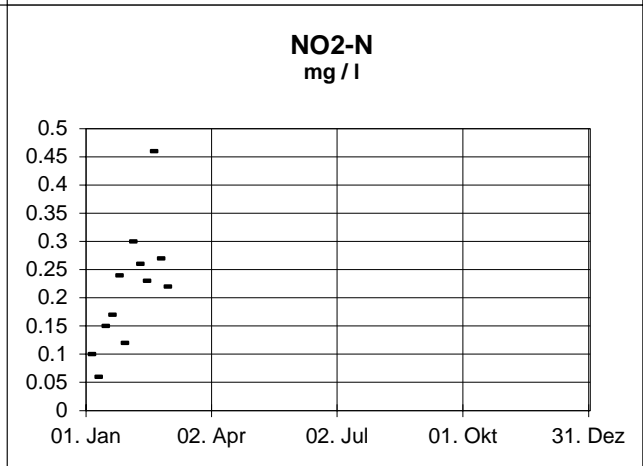
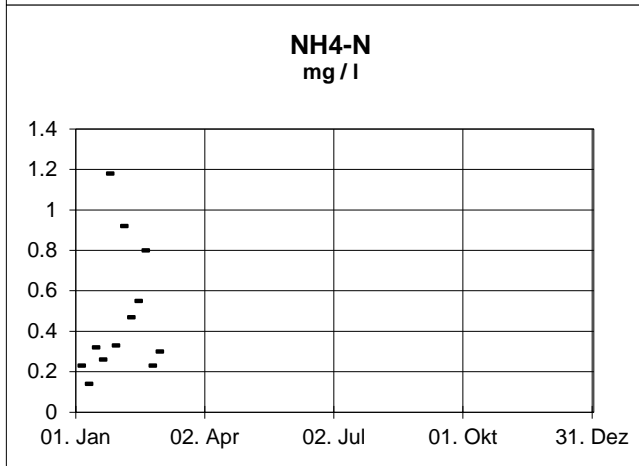
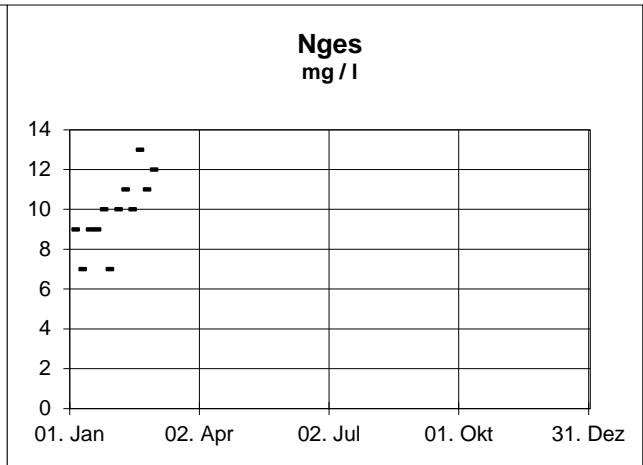
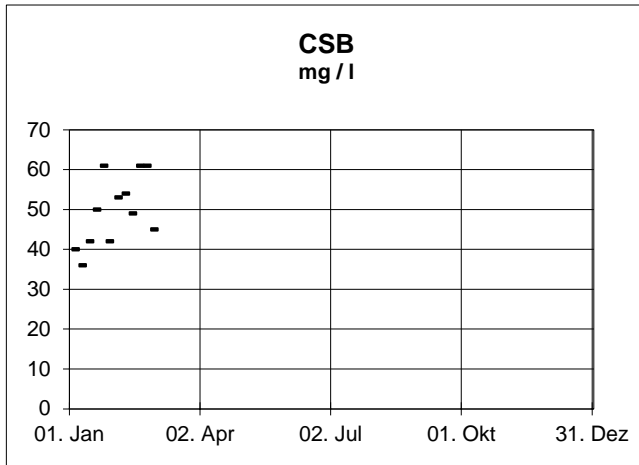


<b>EZ angeschlossen</b>	<b>21'300</b>
<b>EW biochem. gewählt</b>	<b>53'000</b>
<b>EW biochem. 80%-Wert</b>	<b>58'000</b>
<b>EW Stickstoff</b>	<b>29'000</b>
<b>EW Phosphor</b>	<b>32'000</b>

<u>Zulauffrachten</u>	<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>		4'737	217	51	1'056	2'781
<b>50%-Wert</b>		4'817	222	49	1'054	
<b>80%-Wert</b>		5'236	238	57	1'107	

<b>spezifische Belastung pro EW</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>g / Tag</b>	Probenahmeort: <b>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>

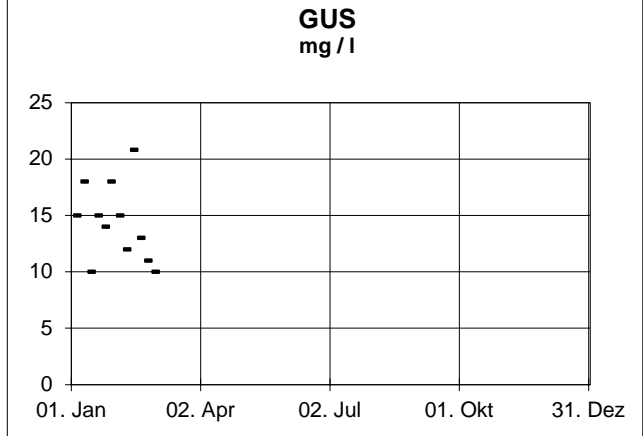
<u>Einwohnerwerte</u>	<b>BSB5 EW</b>	<b>CSB EW</b>	<b>NH4-N EW</b>	<b>Pges EW</b>	<b>Mittelwerte EW</b>	<b>Gasp. EW</b>	<b>FS EW</b>
<b>Mittelwert</b>		52'630	28'996	31'936	37'854	35'206	32'718
<b>50%-Wert</b>		53'525	29'579	30'528	37'878	35'133	
<b>80%-Wert</b>		58'174	31'742	35'647	41'855	36'907	

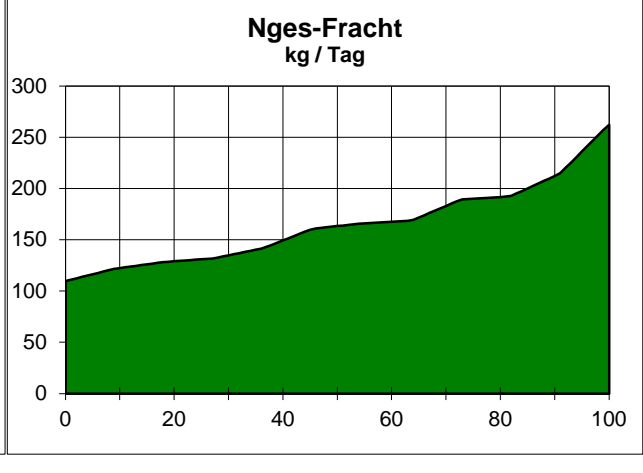
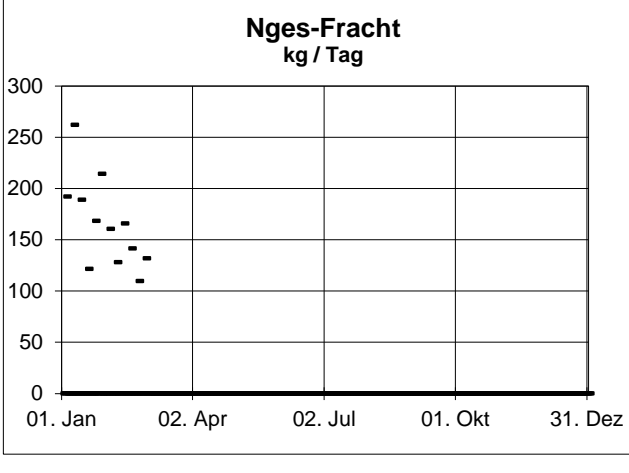
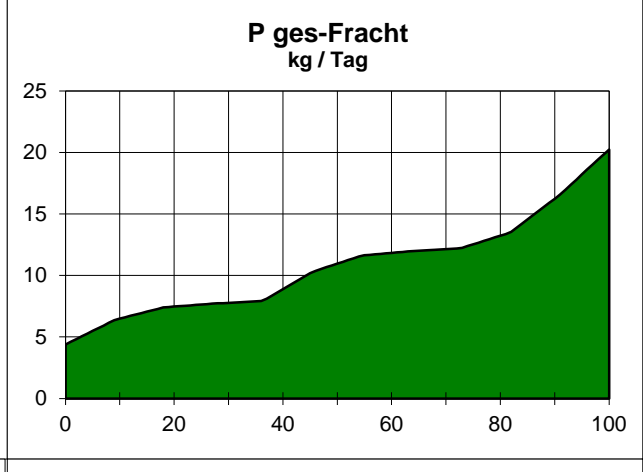
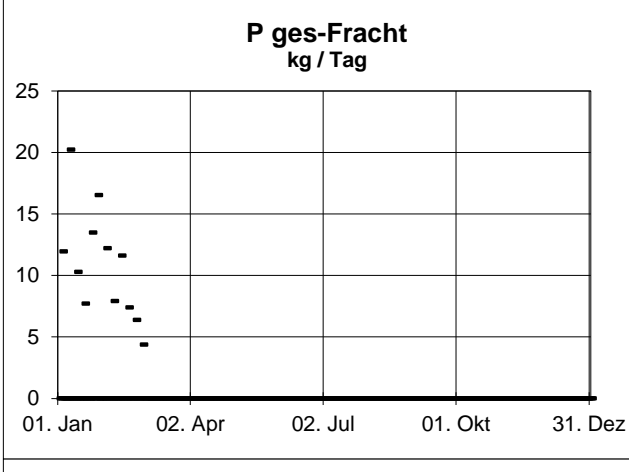
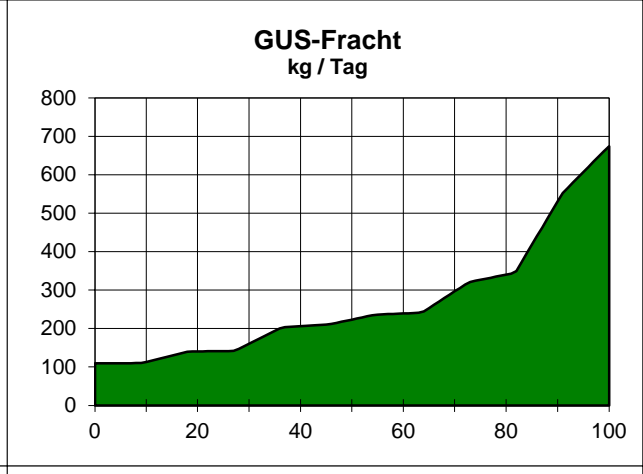
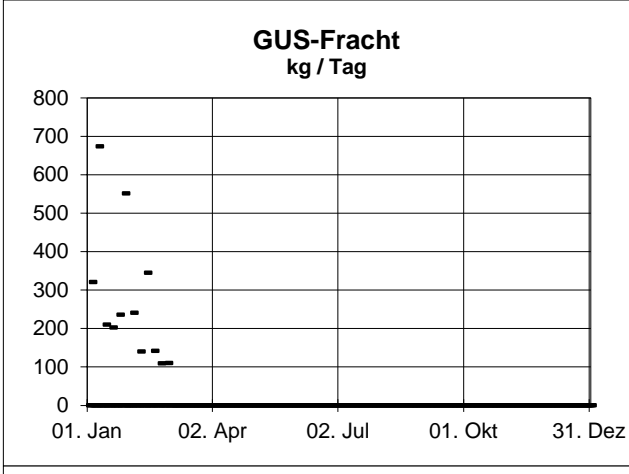
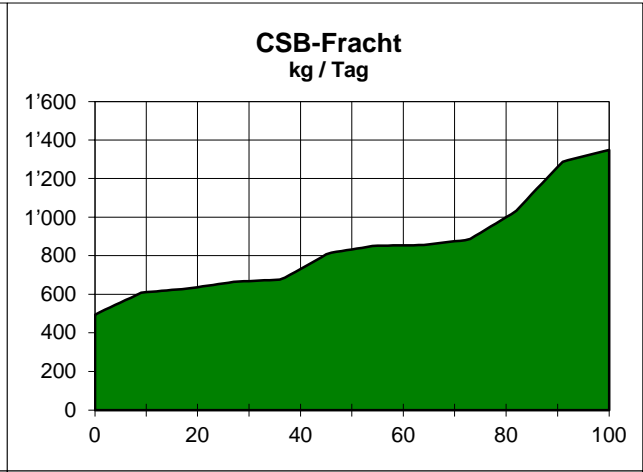
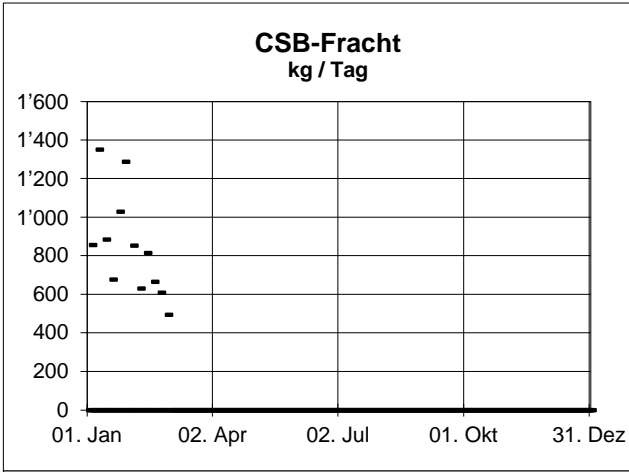


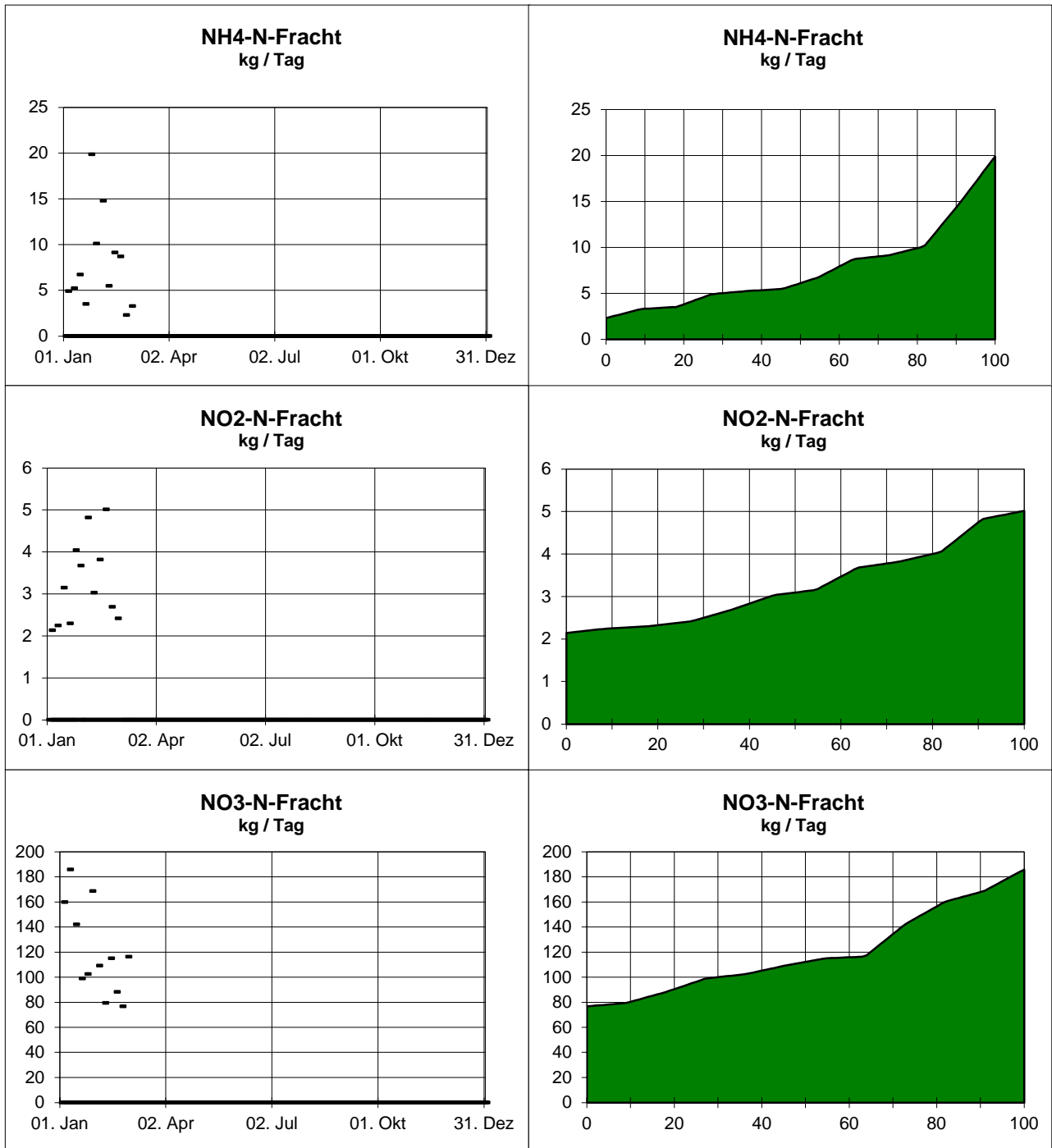
Angaben in mg/l	Mittel- wert	90%- Wert	Grenz- wert <sup>1)</sup>
<b>BSB5</b>			15
<b>CSB</b>	49.5	61.0	
<b>GUS</b>	14.3	18.0	15
<b>NH4-N</b>	0.5	0.9	2
<b>NO2-N <sup>2)</sup></b>	0.2	0.3	0.3
<b>NO3-N</b>	7.1	8.1	
<b>P ges</b>	0.61	0.75	0.8

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

<sup>2)</sup> Richtwert





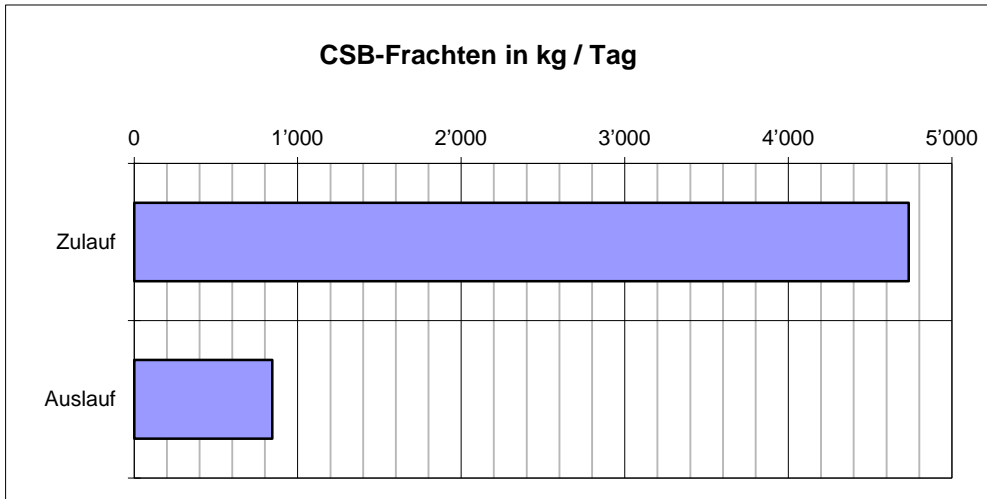


**Auslauffrachten:**

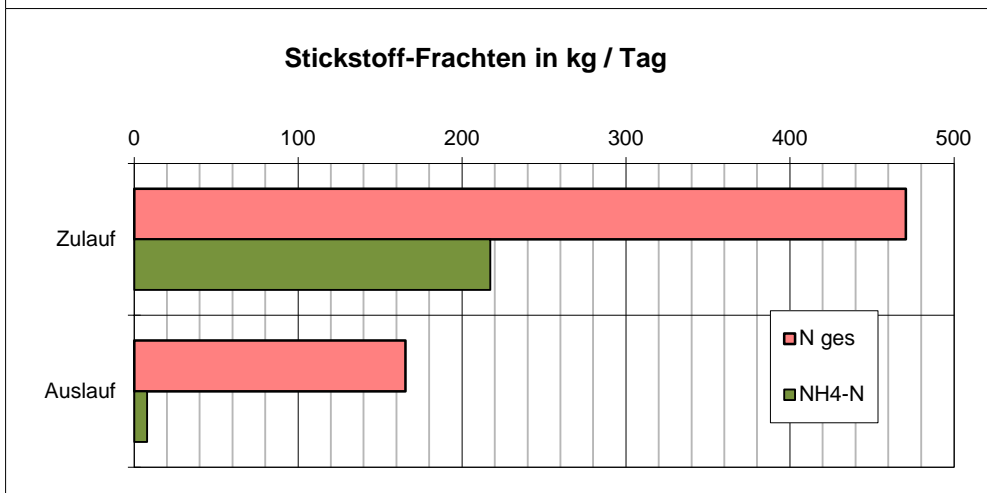
Angaben in kg/Tag	Mittel- wert	50%- Wert	80%- Wert	Mittel 5 - 95 %
<b>CSB</b>	845	833	999	829
<b>GUS</b>	274	223	340	252
<b>Nges</b>	166	163	192	162
<b>NH4-N</b>	7.8	6.1	9.9	7.2
<b>NO2-N</b>	3.3	3.1	4.0	3.2
<b>NO3-N</b>	120.3	112.2	156.5	118.3
<b>P ges</b>	10.8	11.0	13.2	10.6

Abbauleistungen:

	Zulauf kg / Tag	Auslauf kg / Tag	Abbau	Grenz- wert
<b>CSB</b>	4'737	845	82%	80%
<b>N ges</b>	470.8	165.6	65%	30%
<b>NH4-N</b>	217.3	7.8	96%	90%
<b>Pges</b>	51.1	10.8	79%	80%

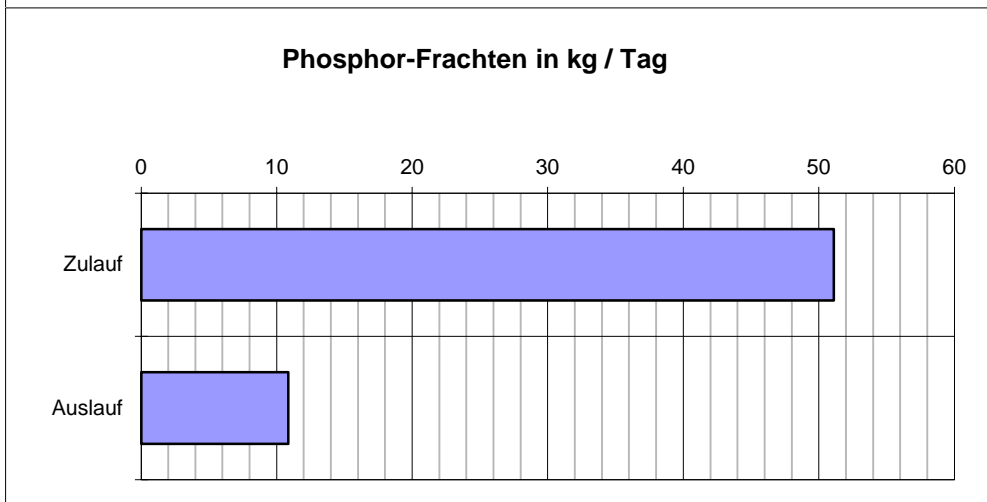


<b>CSB-Abbau</b>	
3'892 kg / Tag	82%
<b>80%</b>	Richtwert

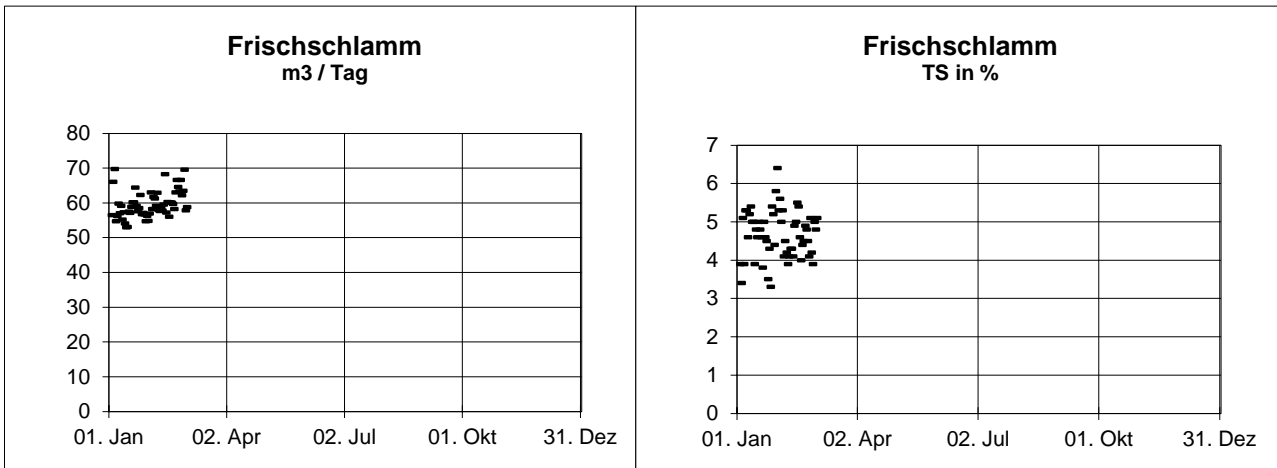


<b>N-Elimination</b>	
305 kg / Tag	65%
<b>30%</b>	

<b>Nitrifikation</b>	
209 kg / Tag	96%
<b>90%</b>	



<b>P-Elimination</b>	
40 kg / Tag	79%
<b>80%</b>	

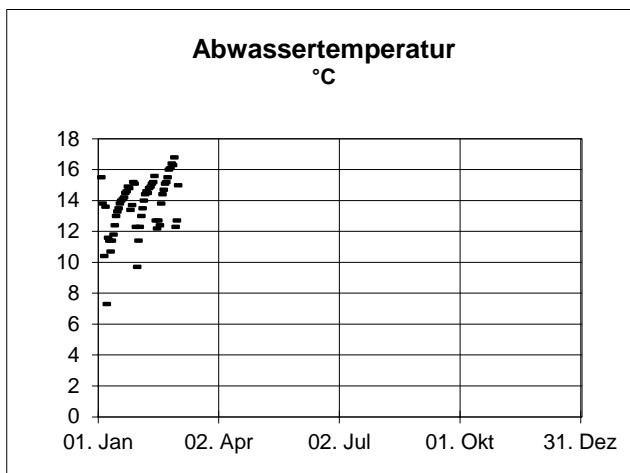


**Frishschlammmanfall: Mittelwerte**

<b>Frishschl. nass</b>	59.6	m3/Tag
<b>TS-Anteil</b>	4.7	%
<b>Frishschl. in TS</b>	2'781	kg/Tag

**Jahresanfall**

<b>Frishschl. in TS</b>	1'015	t/ Jahr
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**Abwassertemperatur:**

<b>Mittelwert</b>	13.7 °C
<b>20%-Wert</b>	12.3 °C
<b>50%-Wert</b>	14.0 °C
<b>80%-Wert</b>	15.1 °C

**Bemerkungen zur Datenauswertung:**