

Valent Biosciences

Effluent Application

2025 Cropping Season

Site	Date	Applicator	Location	620.5	7,224,185	11,642	Lbs/1000 Gallons ¹			Effluent Content mg/kg dry										Method	Crop	Prev Crop		
				Acres	Gallons	Gal/Acre	N	P	K	Pb	Zn	Cu	Ni	Cd	N	P	K	Pb	Zn					Cu
Valent Bioscience	7/18/2024	Smith Ag	Farm 29&34	139.90	1,362,199	9,737	17.7	5.2	3.7	##	41	106	134	51	36	0	0	0.0	0	0	Injected	Sorghum	Sorghum	
	8/22/2024		Farm 29&33	82.75	853,919	10,319	17.7	5.2	3.7	##	41	18	142	54	38	0	0	0.0	0	0	Injected	Sorghum	Sorghum	
	11/23/2024		Farm 29,31,33	160.15	2,051,324	12,809	17.7	5.2	3.7	##	41	18	177	67	47	0	0	0.0	0	0	Injected	Corn	Soybeans	
	3/4/2025		Farm 38	33.0	418,353	12,677	17.7	5.2	3.7	##	41	18	175	66	47	0	0	0.0	0	0	Injected	Corn	Soybeans	
	5/14/2025		Farm 42	81.25	1,133,505	13,951	17.7	5.2	3.7	##	41	18	193	73	52	0	0	0.0	0	0	Injected	Corn	Soybeans	
	5/30/2025		Farm 27	77.0	808,581	10,501	17.7	5.2	3.7	##	41	18	145	55	39	0	0	0.0	0	0	Injected	Corn	Soybeans	
	3/28/2025		Farm 42	46.46	596,304	12,835	17.7	5.2	3.7	##	41	18	177	67	47	0	0	0.0	0	0	Injected	Corn	Soybeans	
				² Mitchell County Yield Bu. Per Acre			Crop Removal			N	P	K	N	P	K	N	P	K	N	P	K			
				222			Corn			1.2	0	0.3	266	83	67	266	83	67	266	83	67			
				65			Soybeans			3.8	1	1.5	247	52	97.5	131	33	21	266	83	67			
				82			Sorghum			1.6	0	0.3	513	135	164	398	116	88	533	167	133			
							Lbs./ Bushel						Corn-Soybean Rotation 2-Year Removal ³			Corn-Sorghum Rotation 2-Year Removal ⁴			Corn-Corn 2-Year Removal ³			Maximum application rate of effluent is 14,985 gallons. Permit was amended in November, 2019 to that rate.		

This report covers effluent application for the 2025 growing season from July 1, 2024 through June 30, 2025

Materials applied after June 30, 2025 will be shown in the April 1, 2027 report.

¹ Source: 2017-2019 average of effluent samples. Used to determine 14,985 gallon application rate.

² Iowa Ag Statistics - 2020-2024 Mitchell County Average Yields plus 10%

March 13, 2026

Signature	Date	Year	Gallons Applied	Acres Applied	Gallons/Acre
Frank L. Moore 18726 115th St. Cresco, IA 52136 641-330-0021 Three Rivers Ag Consulting CCA # 18864		2019	7,273,516	489.7	14,854
		2020	5,514,655	598.9	9,208
		2021	6,066,608	553.7	10,956
		2022	7,273,516	730.9	9,951
		2023	5,071,373	619.9	8,181
		2024	7,138,734	597.4	11,950
		2025	7,224,185	620.5	11,642
Total/Ave.			45,562,587	4211.0	10,820

³ Iowa State University

⁴ Iowa State University & Kansas State University

Cells that show zero or are blank were below detectable levels.