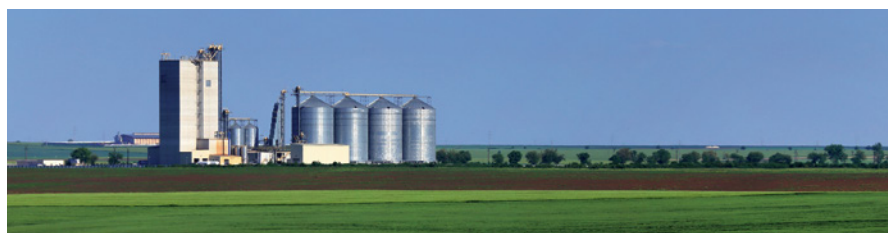


2025

EVONIK FEED INGREDIENT REPORT

AMINONIR®





Dear Valued Customer,

At Evonik Animal Nutrition, we remain committed to equipping our customers with the most comprehensive and reliable data on feed ingredients. In line with this commitment, we are pleased to share our latest 2025 Feed Ingredient Report, which provides detailed insights into the nutritional composition of key feed ingredients, including amino acids, crude protein, crude fat, crude fiber, sugar, starch, and ash.

This year's report also includes a regional breakdown of corn and soybean meal to deliver more precise and relevant information to animal producers worldwide.

Key Findings from the 2025 Crop Analysis

- Corn:

Our analysis of the 2025 corn crop revealed a slight decrease in crude protein content compared to 2024, while starch content was notably higher. Among amino acids, CYS, THR, ILE, LEU, VAL, and PHE levels were lower than last year, whereas LYS and ARG showed a modest increase.

- Soybean Meal:

The 2025 soybean meal crop also exhibited a reduction in crude protein content compared to 2024, with noticeable regional variations. Processing quality remained excellent, with optimal trypsin inhibitor activity (TIA) levels and reactive lysine values ensuring high-quality soybean meal.

- DDGS:

The average crude protein content in DDGS increased slightly this year, though the oil content showed a decline. While most samples demonstrated good quality, a small subset of DDGS samples exhibited heat damage, reflected in reactive lysine to total lysine ratios below 70%.

Your Contribution Matters

This report is a direct result of the collaborative effort between Evonik and our customers, who provided samples for analysis through our AMINONIR® laboratory service. Your invaluable participation enables us to track and share essential trends in feed ingredient quality year after year.

For those seeking deeper insights, we encourage you to explore the AMINODat® database, which offers an extensive repository of feed ingredient data. Our technical team is always available to support you with tailored solutions and expert advice.

Thank you for your continued trust and collaboration.

Together, we are advancing animal nutrition with data-driven insights and innovative solutions.

Yours sincerely,

Paulo Sergio Teixeira

Regional Vice President Animal Nutrition



Corn

AMINONIR®

Region	n	STAT	Crude Protein	Crude Fat	Starch	Sugar	Ash	Crude Fiber	MET	CYS	M+C	LYS	THR	TRP	ARG	ILE	LEU	VAL	HIS	PHE
All Regions	363	Mean (%)	7.39	3.48	64.98	1.77	1.25	1.82	0.16	0.16	0.32	0.24	0.26	0.06	0.36	0.25	0.84	0.35	0.21	0.34
		SD	0.48	0.23	0.88	0.28	0.07	0.12	0.01	0.01	0.02	0.01	0.02	0.00	0.02	0.02	0.08	0.02	0.01	0.03
		CV (%)	6.50	6.61	1.35	15.82	5.60	6.59	6.25	6.25	6.25	4.17	7.69	0.00	5.56	8.00	9.52	5.71	4.76	8.82
		Min (%)	6.14	2.80	62.10	0.90	1.10	1.50	0.13	0.14	0.27	0.21	0.22	0.05	0.31	0.20	0.63	0.29	0.17	0.26
		Max (%)	8.98	4.10	67.40	3.20	1.50	2.20	0.19	0.19	0.38	0.28	0.32	0.07	0.44	0.31	1.07	0.42	0.26	0.43
Western Corn belt (IA, KS, MN, MO, NE)	74	Mean (%)	7.36	3.40	65.29	1.62	1.24	1.83	0.15	0.16	0.32	0.24	0.26	0.06	0.35	0.25	0.84	0.35	0.21	0.34
		SD	0.52	0.22	0.87	0.26	0.08	0.11	0.01	0.01	0.02	0.01	0.02	0.00	0.02	0.02	0.08	0.02	0.01	0.03
		CV (%)	7.07	6.47	1.33	16.05	6.45	6.01	6.67	6.25	6.25	4.17	7.69	0.00	5.71	8.00	9.52	5.71	4.76	8.82
		Min (%)	6.32	2.80	62.10	1.20	1.10	1.60	0.13	0.14	0.28	0.21	0.23	0.06	0.31	0.21	0.64	0.30	0.18	0.27
		Max (%)	8.98	3.90	67.40	2.40	1.40	2.20	0.18	0.19	0.36	0.28	0.32	0.07	0.42	0.31	1.07	0.42	0.25	0.43
Eastern Corn Belt (IL, IN, OH)	38	Mean (%)	7.27	3.31	65.45	1.56	1.23	1.81	0.15	0.16	0.31	0.23	0.26	0.06	0.35	0.25	0.83	0.34	0.21	0.34
		SD	0.23	0.22	0.72	0.19	0.06	0.12	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.04	0.01	0.01	0.02
		CV (%)	3.16	6.65	1.10	12.18	4.88	6.63	6.67	0.00	3.23	4.35	3.85	0.00	2.86	4.00	4.82	2.94	4.76	5.88
		Min (%)	6.51	2.80	64.30	1.10	1.10	1.60	0.14	0.15	0.29	0.22	0.23	0.05	0.32	0.22	0.71	0.31	0.19	0.29
		Max (%)	7.72	3.60	67.10	2.10	1.30	2.10	0.16	0.17	0.34	0.25	0.28	0.06	0.38	0.27	0.90	0.37	0.23	0.37
Southeast (AL, GA, FL, SC)	85	Mean (%)	7.52	3.58	64.68	1.79	1.26	1.79	0.16	0.16	0.32	0.24	0.27	0.06	0.36	0.25	0.85	0.35	0.22	0.35
		SD	0.41	0.23	0.99	0.19	0.07	0.12	0.01	0.01	0.01	0.01	0.01	0.00	0.02	0.02	0.06	0.02	0.01	0.02
		CV (%)	5.45	6.42	1.53	10.61	5.56	6.70	6.25	6.25	3.13	4.17	3.70	0.00	5.56	8.00	7.06	5.71	4.55	5.71
		Min (%)	6.20	3.00	62.60	0.90	1.10	1.50	0.14	0.15	0.29	0.21	0.22	0.06	0.32	0.20	0.63	0.29	0.18	0.26
		Max (%)	8.54	4.10	66.60	2.20	1.40	2.10	0.17	0.18	0.35	0.27	0.30	0.07	0.40	0.29	1.01	0.40	0.24	0.41
East Coast (PA)	10	Mean (%)	7.08	3.38	65.39	1.48	1.21	1.81	0.14	0.16	0.31	0.23	0.25	0.06	0.33	0.24	0.82	0.34	0.21	0.33
		SD	0.32	0.15	0.64	0.15	0.03	0.09	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.01	0.05	0.01	0.01	0.02
		CV (%)	4.52	4.44	0.98	10.14	2.48	4.97	7.14	0.00	3.23	0.00	4.00	0.00	3.03	4.17	6.10	2.94	4.76	6.06
		Min (%)	6.64	3.20	64.20	1.30	1.20	1.70	0.14	0.15	0.30	0.22	0.24	0.06	0.32	0.23	0.76	0.32	0.20	0.30
		Max (%)	7.47	3.70	66.20	1.80	1.30	1.90	0.15	0.17	0.33	0.24	0.27	0.06	0.36	0.26	0.89	0.35	0.22	0.35
West Coast (CA, UT)	19	Mean (%)	6.86	3.53	65.08	2.27	1.27	1.93	0.15	0.16	0.30	0.23	0.24	0.06	0.34	0.23	0.75	0.32	0.20	0.30
		SD	0.47	0.17	0.54	0.23	0.05	0.11	0.01	0.01	0.02	0.01	0.02	0.00	0.02	0.02	0.07	0.02	0.01	0.03
		CV (%)	6.85	4.82	0.83	10.13	3.94	5.70	6.67	6.25	6.67	4.35	8.33	0.00	5.88	8.70	9.33	6.25	5.00	10.00
		Min (%)	6.34	3.30	64.00	1.90	1.20	1.70	0.13	0.14	0.27	0.22	0.23	0.06	0.31	0.21	0.66	0.30	0.18	0.27
		Max (%)	7.85	4.00	65.70	2.70	1.30	2.10	0.17	0.17	0.34	0.25	0.28	0.06	0.37	0.27	0.91	0.37	0.22	0.37

Crop Year	n	STAT	Crude Protein	Crude Fat	Starch	Sugar	Ash	Crude Fiber	MET	CYS	M+C	LYS	THR	TRP	ARG	ILE	LEU	VAL	HIS	PHE
2021	743	Mean (%)	7.37	3.47	65.01	1.64	1.18	1.87	0.15	0.16	0.32	0.24	0.26	0.06	0.35	0.25	0.85	0.35	0.21	0.35
2022	690	Mean (%)	7.67	3.46	64.39	1.70	1.19	1.85	0.16	0.17	0.33	0.24	0.27	0.06	0.35	0.26	0.92	0.36	0.22	0.37
2023	555	Mean (%)	7.63	3.54	64.50	1.71	1.20	1.85	0.16	0.17	0.33	0.24	0.27	0.06	0.36	0.26	0.90	0.36	0.22	0.36
2024	571	Mean (%)	7.59	3.47	64.75	1.69	1.17	1.78	0.16	0.17	0.32	0.23	0.27	0.06	0.35	0.26	0.90	0.36	0.21	0.36
2025	363	Mean (%)	7.39	3.48	64.98	1.77	1.25	1.82	0.16	0.16	0.32	0.24	0.26	0.06	0.36	0.25	0.84	0.35	0.21	0.34

Dry matter of corn is standardized at 88%.

	Digestibility Coefficients ¹ (%)											
	MET	CYS	M+C	LYS	THR	TRP	ARG	ILE	LEU	VAL	HIS	PHE
Swine	87	81	84	74	78	73	88	85	88	82	86	87
Poultry	94	87	91	88	86	84	89	96	92	93	95	92

¹ AMINODat®



Soybean Meal (SBM)

AMINONIR®

Region	n	STAT	Crude Protein	Crude Fat	Starch	Sugar	Ash	Crude Fiber	MET	CYS	M+C	LYS	THR	TRP	ARG	ILE	LEU	VAL	HIS	PHE
All Regions	252	Mean (%)	45.98	2.55	0.52	11.10	6.26	4.00	0.61	0.66	1.27	2.84	1.78	0.63	3.33	2.07	3.45	2.17	1.19	2.31
		SD	0.74	0.52	0.08	0.53	0.16	0.45	0.01	0.02	0.03	0.05	0.03	0.01	0.06	0.04	0.06	0.03	0.02	0.04
		CV (%)	1.61	20.39	15.38	4.77	2.56	11.25	1.64	3.03	2.36	1.76	1.69	1.59	1.80	1.93	1.74	1.38	1.68	1.73
		Min (%)	43.76	1.70	0.30	9.70	5.80	2.80	0.58	0.60	1.18	2.68	1.68	0.60	3.17	1.97	3.27	2.07	1.12	2.19
		Max (%)	47.96	4.40	0.70	12.10	6.80	5.60	0.64	0.71	1.33	2.97	1.85	0.66	3.51	2.17	3.61	2.27	1.24	2.42
Western Corn belt (IA, KS, MN, MO, NE, SD)	135	Mean (%)	45.99	2.38	0.53	11.04	6.31	4.02	0.61	0.66	1.28	2.84	1.78	0.63	3.32	2.08	3.45	2.18	1.19	2.31
		SD	0.61	0.37	0.07	0.58	0.12	0.47	0.01	0.01	0.02	0.04	0.02	0.01	0.05	0.03	0.05	0.03	0.02	0.03
		CV (%)	1.33	15.55	13.21	5.25	1.90	11.69	1.64	1.52	1.56	1.41	1.12	1.59	1.51	1.44	1.45	1.38	1.68	1.30
		Min (%)	44.29	1.70	0.30	9.70	6.00	2.80	0.58	0.63	1.22	2.75	1.70	0.60	3.19	1.98	3.29	2.08	1.14	2.20
		Max (%)	47.74	3.20	0.70	12.10	6.70	5.60	0.63	0.69	1.33	2.97	1.85	0.66	3.51	2.17	3.61	2.27	1.24	2.42
Eastern Corn Belt (IL, IN, OH)	71	Mean (%)	46.21	2.45	0.49	11.31	6.15	3.83	0.62	0.66	1.28	2.86	1.79	0.63	3.36	2.08	3.47	2.19	1.19	2.32
		SD	0.74	0.44	0.08	0.33	0.16	0.40	0.01	0.01	0.02	0.05	0.03	0.01	0.06	0.04	0.06	0.03	0.02	0.04
		CV (%)	1.60	17.96	16.33	2.92	2.60	10.44	1.61	1.52	1.56	1.75	1.68	1.59	1.79	1.92	1.73	1.37	1.68	1.72
		Min (%)	43.98	1.80	0.30	10.40	5.80	2.90	0.58	0.62	1.21	2.69	1.71	0.60	3.17	1.98	3.30	2.09	1.13	2.22
		Max (%)	47.96	4.20	0.60	11.80	6.50	5.30	0.64	0.71	1.33	2.97	1.85	0.66	3.51	2.16	3.61	2.26	1.24	2.42
Southeast (GA, NC)	36	Mean (%)	45.58	3.35	0.52	10.88	6.31	4.17	0.60	0.64	1.24	2.79	1.76	0.62	3.30	2.06	3.42	2.15	1.17	2.29
		SD	1.05	0.48	0.09	0.59	0.21	0.40	0.01	0.02	0.03	0.06	0.04	0.01	0.08	0.05	0.08	0.05	0.03	0.06
		CV (%)	2.30	14.33	17.31	5.42	3.33	9.59	1.67	3.13	2.42	2.15	2.27	1.61	2.42	2.43	2.34	2.33	2.56	2.62
		Min (%)	43.76	2.40	0.30	9.70	5.90	3.50	0.58	0.60	1.18	2.68	1.68	0.60	3.17	1.97	3.27	2.07	1.12	2.19
		Max (%)	47.36	4.40	0.70	11.80	6.80	5.60	0.62	0.67	1.29	2.88	1.82	0.64	3.41	2.14	3.55	2.23	1.21	2.38
East Coast (PA)	10	Mean (%)	45.75	2.74	0.52	11.10	6.13	4.20	0.61	0.66	1.27	2.83	1.76	0.62	3.31	2.06	3.43	2.16	1.18	2.30
		SD	0.44	0.29	0.04	0.29	0.13	0.34	0.01	0.01	0.02	0.03	0.02	0.01	0.04	0.03	0.04	0.03	0.01	0.03
		CV (%)	0.96	10.58	7.69	2.61	2.12	8.10	1.64	1.52	1.57	1.06	1.14	1.61	1.21	1.46	1.17	1.39	0.85	1.30
		Min (%)	45.03	2.30	0.50	10.50	6.00	3.80	0.59	0.63	1.23	2.75	1.73	0.60	3.24	2.00	3.34	2.10	1.16	2.22
		Max (%)	46.26	3.10	0.60	11.60	6.40	4.80	0.62	0.68	1.29	2.86	1.79	0.64	3.36	2.09	3.48	2.19	1.20	2.33

Crop Year	n	STAT	Crude Protein	Crude Fat	Starch	Sugar	Ash	Crude Fiber	MET	CYS	M+C	LYS	THR	TRP	ARG	ILE	LEU	VAL	HIS	PHE
2021	400	Mean (%)	46.63	2.25		10.36	6.66	3.77	0.61	0.66	1.27	2.85	1.81	0.63	3.39	2.12	3.53	2.21	1.20	2.37
2022	423	Mean (%)	46.12	2.26		10.86	6.50	3.82	0.61	0.65	1.26	2.83	1.79	0.63	3.32	2.09	3.49	2.19	1.20	2.34
2023	258	Mean (%)	46.64	2.33	0.55	10.40	6.53	3.84	0.61	0.65	1.27	2.83	1.80	0.64	3.35	2.11	3.52	2.20	1.20	2.36
2024	347	Mean (%)	46.40	2.40	0.60	10.59	6.50	3.76	0.61	0.66	1.27	2.84	1.79	0.63	3.36	2.11	3.51	2.20	1.20	2.35
2025	252	Mean (%)	45.98	2.55	0.52	11.10	6.26	4.00	0.61	0.66	1.27	2.84	1.78	0.63	3.33	2.07	3.45	2.17	1.19	2.31

Dry matter of soybean meal is standardized at 88%.

Digestibility Coefficients ¹ (%)												
	MET	CYS	M+C	LYS	THR	TRP	ARG	ILE	LEU	VAL	HIS	PHE
Swine	91	85	88	90	87	89	96	90	89	90	91	90
Poultry	90	78	84	89	83	89	91	87	87	86	89	88

¹ AMINODat®

Dried Distillers Grains with Solubles (DDGS)

AMINONIR®

Region	n	STAT	Crude Protein	Crude Fat	Starch	Sugar	Ash	Crude Fiber	MET	CYS	M+C	LYS	THR	TRP	ARG	ILE	LEU	VAL	HIS	PHE
All Regions	55	Mean (%)	28.98	7.71	4.91	1.42	4.62	7.74	0.54	0.54	1.09	0.93	1.08	0.24	1.33	1.06	3.21	1.39	0.78	1.39
		SD	0.87	0.47	1.50	0.30	0.25	0.45	0.02	0.02	0.04	0.06	0.03	0.02	0.09	0.03	0.12	0.04	0.02	0.05
		CV (%)	3.00	6.10	30.55	21.13	5.41	5.81	3.70	3.70	3.67	6.45	2.78	8.33	6.77	2.83	3.74	2.88	2.56	3.60
		Min (%)	26.39	6.60	2.30	0.80	3.80	7.10	0.49	0.50	0.99	0.81	1.02	0.21	1.14	0.98	2.96	1.30	0.74	1.26
		Max (%)	30.97	8.50	7.10	2.20	5.10	9.60	0.59	0.58	1.17	1.06	1.17	0.28	1.48	1.15	3.44	1.49	0.83	1.51

Crop Year	n	STAT	Crude Protein	Crude Fat	Starch	Sugar	Ash	Crude Fiber	MET	CYS	M+C	LYS	THR	TRP	ARG	ILE	LEU	VAL	HIS	PHE
2021	2,533	Mean (%)	28.53	8.39	4.07	1.10	4.77	6.83	0.53	0.52	1.06	0.84	1.04	0.22	1.26	1.01	3.09	1.32	0.73	1.35
2022	1,624	Mean (%)	28.62	8.18	3.91	1.08	4.80	6.85	0.53	0.52	1.07	0.85	1.04	0.23	1.31	1.02	3.03	1.32	0.73	1.35
2023	42	Mean (%)	29.37	7.68	3.15	1.55	4.78	7.44	0.55	0.55	1.12	0.87	1.07	0.23	1.32	1.05	3.20	1.36	0.76	1.42
2024	72	Mean (%)	28.67	8.01	3.44	1.59	4.87	7.55	0.51	0.52	1.04	0.87	1.05	0.23	1.27	1.03	3.19	1.34	0.75	1.37
2025	55	Mean (%)	28.98	7.71	4.91	1.42	4.62	7.74	0.54	0.54	1.09	0.93	1.08	0.24	1.33	1.06	3.21	1.39	0.78	1.39

Dry matter of DDGS is standardized at 88 %.

Digestibility Coefficients¹ (%)												
	MET	CYS	M+C	LYS	THR	TRP	ARG	ILE	LEU	VAL	HIS	PHE
Swine	83	75	76	63	72	76	81	78	85	77	79	82
Poultry	83	78	81	61	69	81	80	77	84	75	71	78

¹ AMINODat®

Corn Germ Meal

AMINONIR®

Region	n	STAT	Crude Protein	Crude Fat	Starch	Sugar	Ash	Crude Fiber	MET	CYS	M+C	LYS	THR	TRP	ARG	ILE	LEU	VAL	HIS	PHE
All Regions	10	Mean (%)	14.03	15.16	23.65	4.98	4.61	5.74	0.24	0.26	0.51	0.74	0.52	0.16	1.05	0.43	1.03	0.68	0.41	0.56
		SD	0.16	0.60	0.99	0.20	0.18	0.37	0.00	0.00	0.01	0.02	0.01	0.00	0.03	0.01	0.02	0.01	0.00	0.01
		CV (%)	1.14	3.96	4.19	4.02	3.90	6.45	0.00	0.00	1.96	2.70	1.92	0.00	2.86	2.33	1.94	1.47	0.00	1.79
		Min (%)	13.74	14.40	21.50	4.70	4.40	5.10	0.24	0.26	0.50	0.71	0.51	0.16	1.01	0.42	1.00	0.66	0.40	0.55
		Max (%)	14.22	16.40	24.70	5.30	4.90	6.40	0.25	0.26	0.52	0.77	0.53	0.17	1.09	0.44	1.06	0.70	0.42	0.58

Dry matter of corn germ meal is standardized at 88 %.

Digestibility Coefficients' (%)												
	MET	CYS	M+C	LYS	THR	TRP	ARG	ILE	LEU	VAL	HIS	PHE
Swine	79	63	70	68	60	57	88	72	83	75	76	76
Poultry	84	64	73	81	79	85	91	87	88	87	85	88

¹ AMINODat®

Soy Products and DDGS Quality Report

AMINONIR®

The processing conditions of soybean meal and DDGS were assessed using traditional laboratory assays, including Protein Solubility in KOH, Trypsin Inhibitor Activity and Reactive Lysine. Evonik has expanded its near-infrared spectroscopy (NIRS) portfolio to include AMINONIR® RED 2.0, a service that predicts the quality of heat-exposed soy products and corn-based DDGS based on these traditional laboratory assays. The data presented in this report was developed using the parameters predicted by AMINONIR® RED 2.0 on newly harvested soybean meal and DDGS samples in 2025.

Material	n Obs	Variable	Mean	Std Dev	CV	Minimum	Maximum
DDGS, Corn	55	Protein Solubility in KOH (%)	32.95	2.72	8.25	23.00	37.30
		Reactive Lysine (%)	0.70	0.07	10.00	0.59	0.85
		Reactive Lysine/Total Lysine Ratio (%)	77.79	4.12	5.30	69.12	84.22
Soybean Meal	252	Protein Solubility in KOH (%)	81.90	2.10	2.56	77.00	88.30
		Trypsin Inhibitor Activity (mg/g)	3.40	0.50	14.71	2.00	5.10
		Reactive Lysine (%)	2.50	0.10	4.00	2.30	2.60
		Reactive Lysine/Total Lysine Ratio (%)	88.50	0.70	0.79	86.50	90.70

Find the 2025 Feed Ingredient Report, and previous year's versions, on our website:

www.evonik.click/USAFeedIngredientReport



AMINODat®

Amino Acids

Proximates

Energy

Minerals

Fatty Acids

Biogenic Amines

ANF-RED

Diets

Recommendations

AMINO ACIDS

SHOW Essential

SHOW Total AA

UNIT %

DATA Mean

DRY MATTER Standard

Name ^	DM %	CP %	Lys %	Met %	Cys %	Met+Cys %	Thr %	Trp %	Arg %	Ile %	Leu %	Val %	His %	Phe %
Wheat Global, 2020-2022	88.00	12.48	0.33	0.19	0.27	0.46	0.34	0.15	0.58	0.42	0.80	0.52	0.28	0.56
Wheat Global, 2021-2023	88.00	11.88	0.33	0.18	0.25	0.43	0.33	0.15	0.55	0.40	0.76	0.50	0.26	0.53
Wheat Global, 2023-2024	88.00	11.23	0.32	0.17	0.24	0.41	0.32	0.15	0.53	0.37	0.72	0.47	0.25	0.50
Wheat Australia, 2023-2023	88.00	10.98	0.31	0.17	0.24	0.31	0.14	0.52	0.36	0.71	0.46	0.25	0.50	
Wheat Brazil, 2023-2023	88.00	11.60	0.32	0.18	0.26									
Wheat Bulgaria, 2023-2023	88.00													
Wheat Egypt, 2023-2023	88.00													
Wheat France, 2023-2023	88.00													



NEW!

AMINODat®

Update

OUR EXTENSIVE WEB-BASED DATABASE FOR ANIMAL NUTRITIONISTS NOW WITH FRESH CROP DATA FROM THE USA!

Our extensive nutrition database is the most comprehensive in the world and supports you in mastering the challenge of reducing costs while meeting livestock needs. It covers over 2,500 raw materials and more than 870,000 samples from all over the world, based on more than 46,000,000 analytical results.

With a new update, AMINODat® now includes:

- State specific data for new harvest Corn and Soybean Meal in the USA:
 - 22 US States covered for Corn
 - 12 US States covered for Soybean Meal
- Fresh data sets on Corn Germ Meal and Corn DDGS sampled in the USA.

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