



Nutrient	% fecal	Site of digestion
Starch & sugars	#100	Small intestine
Proteins	>90	Small intestine
Fat	70-90	Small intestine
NSP-Dietary fiber	0-100	Hindgut



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	Growing	Adult	∆,%dEg	
Wheat	87.6	89.2	+1.8	
Corn	87.9	91.4	+4.0	
Soybean meal	85.2	90.4	+6.2	
Wheat bran	56.7	62.7	+10.4	
Corn gluten feed	65.6	76.4	+16.5	
Soybean hulls	51.4	70.3	+36.8	
		INRA & AF.	Z feeding table:	

Effect o	of tech	nology on	dE	of	pig	feeds
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Technology	Mash		Pellet
Wheat-SBM diets (n=2)	88.6	*	89.2
Corn-SBM diets (n=3)	88.4	**	90.3
Corn (n=5)	87	**	90
Full-fat rapeseed	35	**	83
Linseed (extrusion)	51	**	84
			INRA data
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	DE		ME		NE	NE/ME
Ingredients						
Fat	243	+	252	++	300	90
Corn	103	=	105	+	112	80
Pea	101	=	100	-	98	73
Wheat bran	68	=	67	-	63	71
Soybean meal	107	-	102		82	60
* As % of the energy 16%, fat: 2.5%,	value of a wheat bran	compol 1: 5%,	und feed peas: 5%,	(wheat:)	67%, soybed	an meal:







Lysine conte	nt of ingr	edients	
	Total	SID	
Diet	100	100	
Ingredients			
Maize	29	26	
Wheat	36	33	
Wheat bran	68	53	
Soybean meal	340	353	
AA mixture**	4580	5180	
* As % of the lysine content of a diet cont wheat bran (5%), peas (5%), HCI-lysine	aining wheat (67%), (0.10%), methionin	soybean meal (16%), fat e (0.05%), threonine (0.0	(2.5%), 5%),
** 50% HCI-lysine, 25% threonine, 25% me	thionine		
		INRA&AFZ feeding	; tables























Conclusions

- \succ Different sets of energy values should be used for piglets + G-F pigs and adult sows; NE is preferable
- > Adjustment of energy values should be done for technological treatments, enzymes addition, etc. Bases are not fully available: knowledge is required.
- > Concepts and prediction methods remain variable between ...; moderate development of rapid and accurate (*in vitro*, NIR, etc.) methods in addition to *in vivo* and chemically based techniques => major challenge

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