



MARQUIS



Dr. Jennifer Aurandt-Pilgrim
Director of Innovation



MARQUIS®

MARQUIS FAMILY BUSINESS HISTORY



1975 Trucking
Commodities &
Founding of Marquis
Grain



1979 Grain
Commodity Hedging



1994 Importing and
Wholesaling Crop
Fertilizers



1999 Liquid Tank
Terminals



2005 Ethanol



2018 ProCap and
ProCap Gold



1976 Corn
Procurement



1985 Crop Input
Marketing, Retailing
and Services



1995 Liquid Barging



2000 Steel Barging
(Scrap and Coil)



2010 Crude Oil
Transportation,
Terminals and
Logistics



2020 Hand Sanitizer

1975

1980

1985

1990

1995

2000

2005

2010

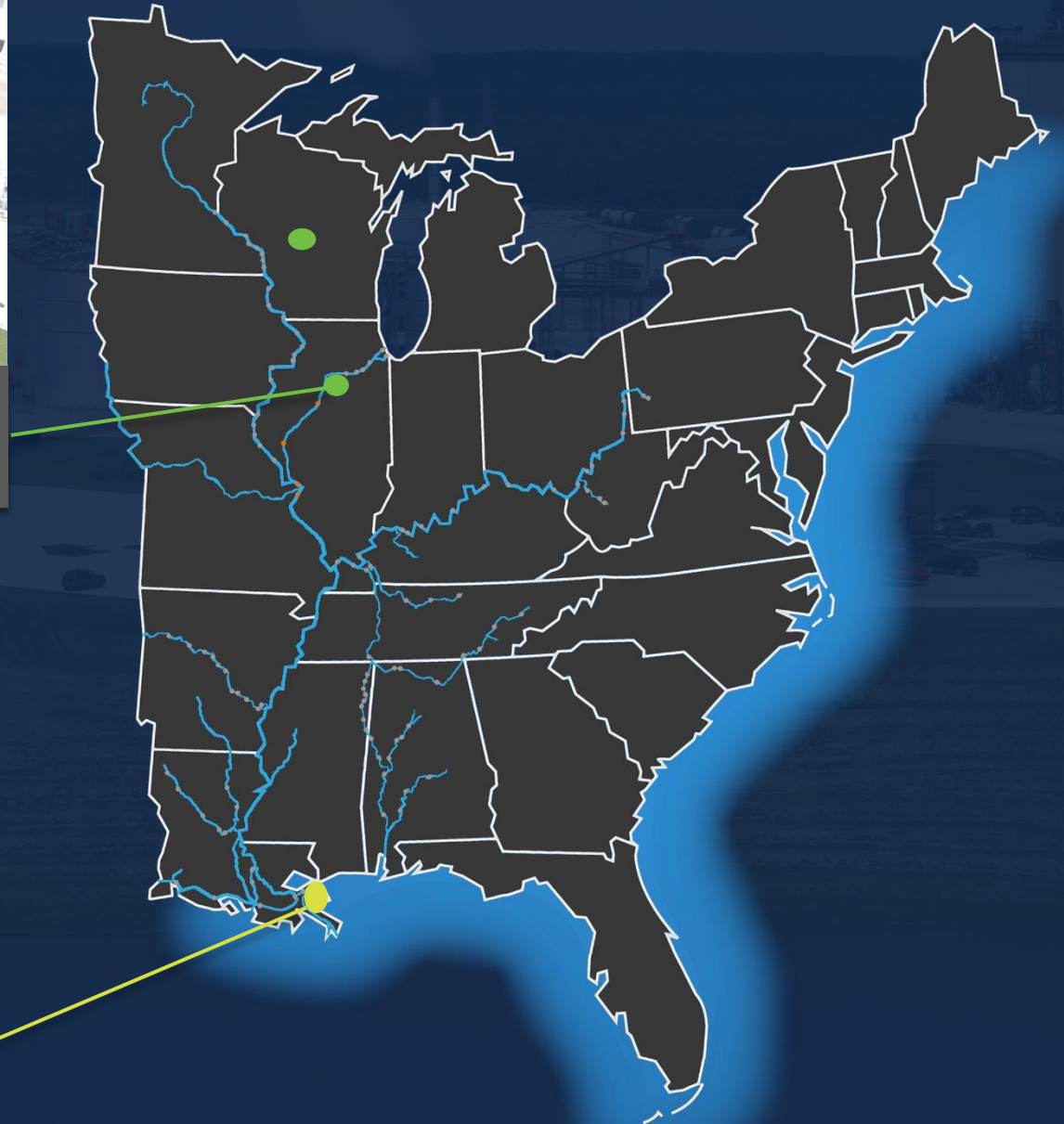
2020



MARQUIS ENERGY
Hennepin, IL



Bulk Vessel Capacity
New Orleans, LA





GLOBAL REACH

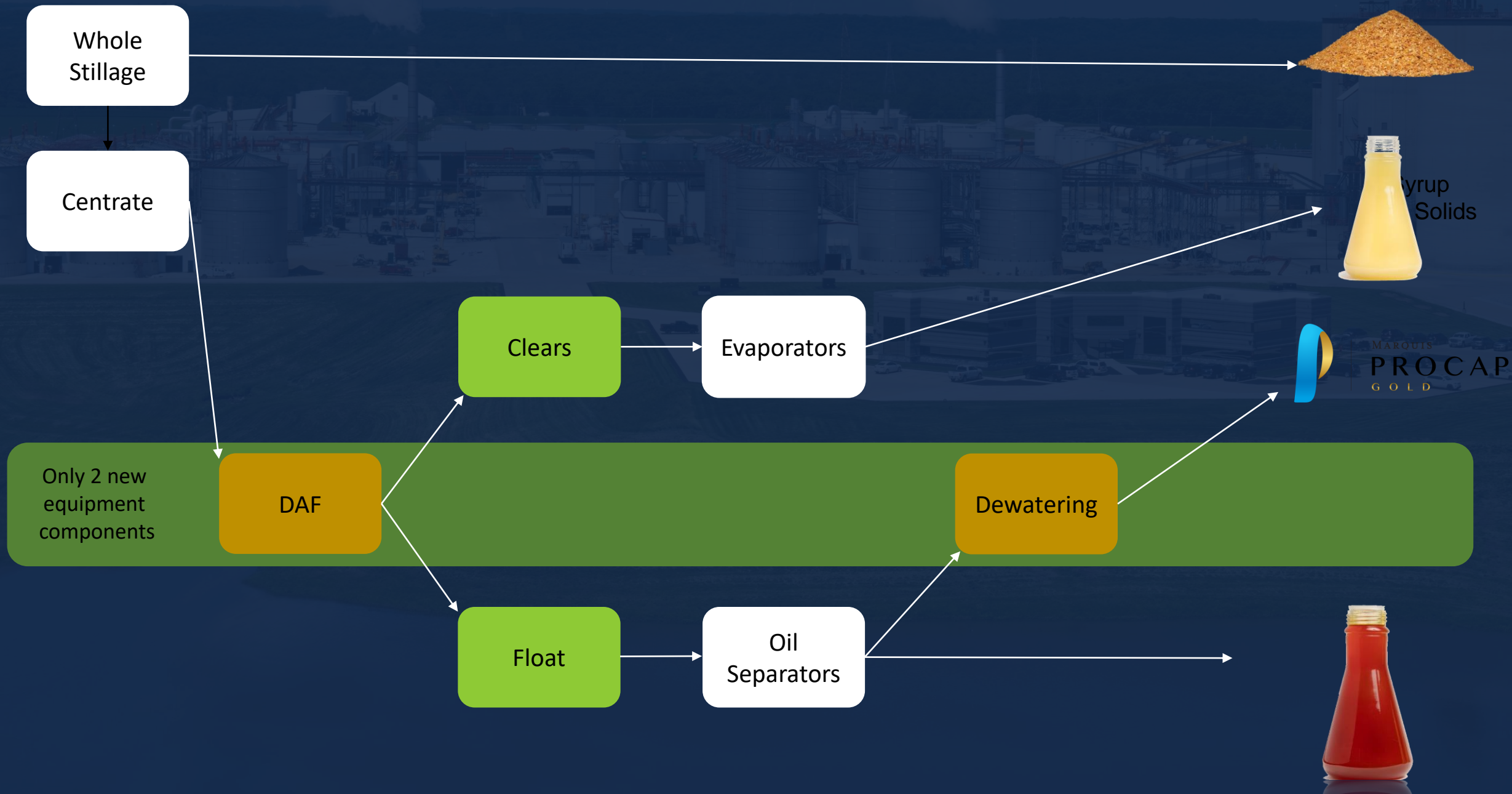


MARQUIS
PROCAP
GOLD

Traditional DDGS



High Level Process Flow

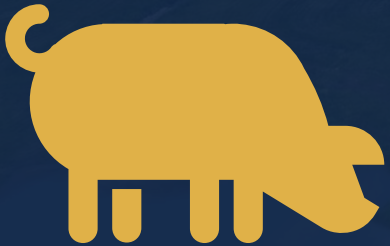


High Level Process Flow

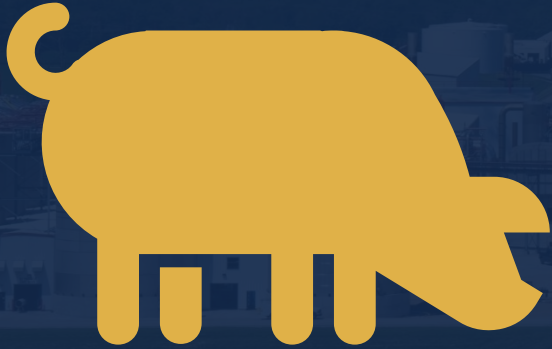



online since July 2018

Sustaining Value Proposition

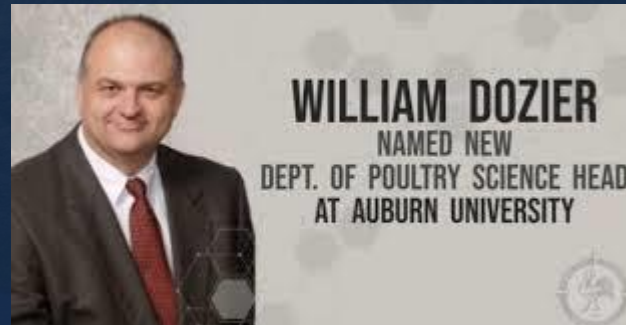


Feeding Trial Data



Hans H. Stein
Monogastric
Nutrition
Laboratory
 ILLINOIS

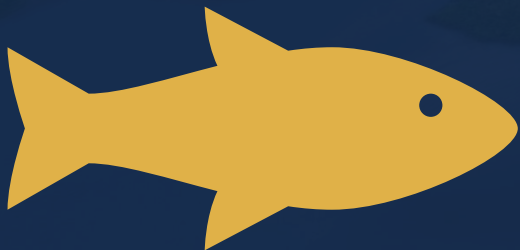
Property	Value
AID	77.7%
SID	84.4%
Essential Amino Acids	85%
Non-Essential	75%



Property	Value
AMEn	3546 (kcal/kg)
Essential Amino Acids	76.2%
Non-Essential	76.5%

R E P L A C E S 1 0 0 % O F S O Y B E A N
M E A L W H I L E M A I N T A I N I N G
F I S H G R O W T H A N D H E A L T H





PROCAP GOLD DIET
Replacing Fishmeal and
soybean meal



CONTROL DIET
50% fishmeal
50% soybean meal



Delbert Gatlin

Regents Professor & Associate Department Head
for Research and Graduate Programs


Office: 280 WFES

Email: d-gatlin@tamu.edu

Phone: 979-847-9333

Resume/CV

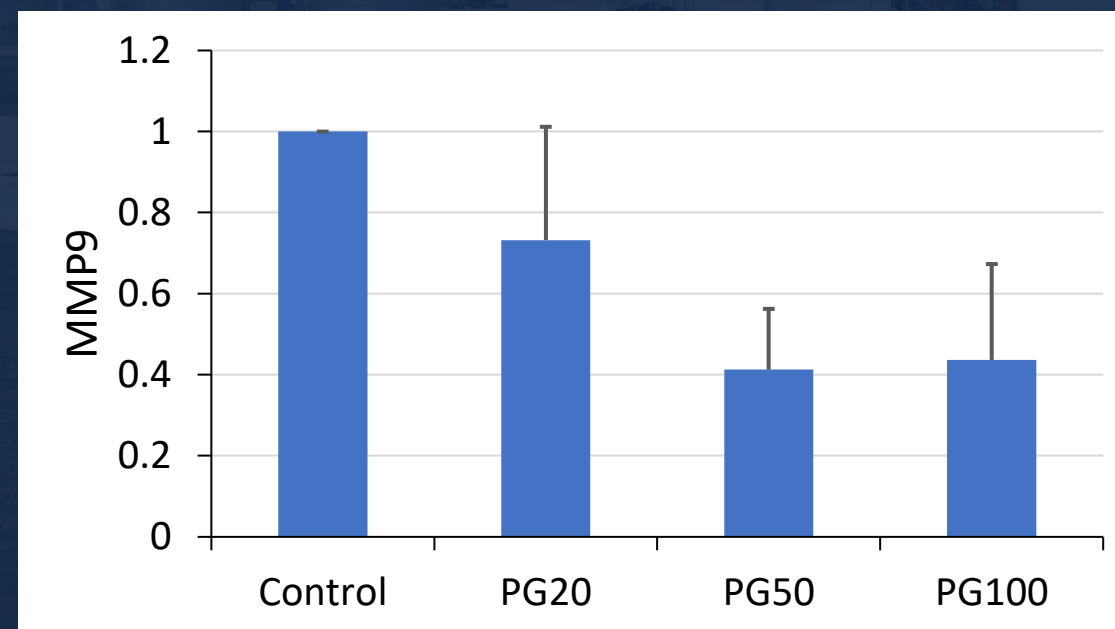
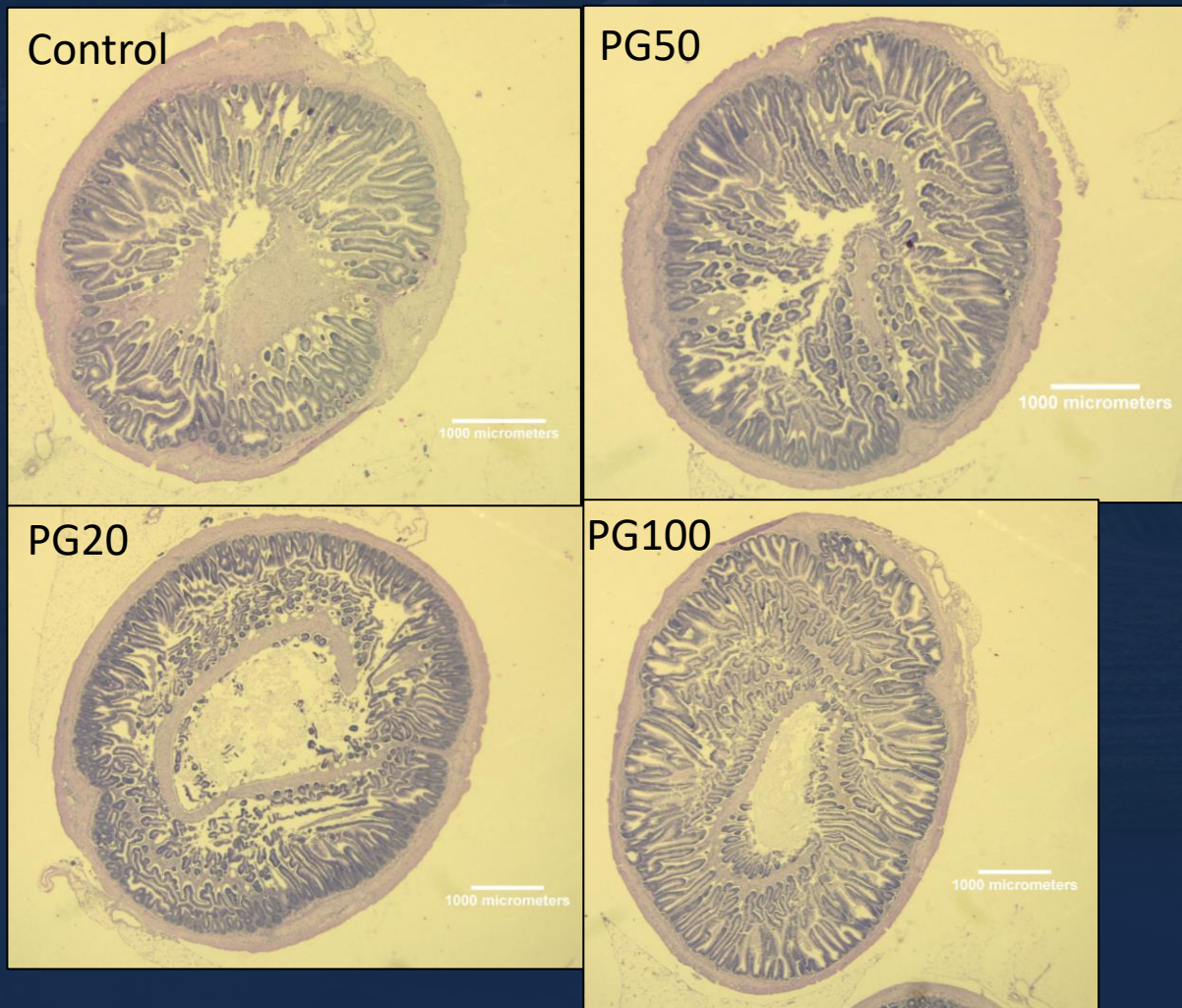
<https://agrillife.org/fishnutrition>

A composite image featuring two rainbow trout. The top half shows a close-up of a trout's head and upper body, with its mouth slightly open, set against a background of pink and white water. The bottom half shows a full-body view of a trout swimming in clear, greenish water, with its distinctive red and blue spots visible along its side.

Initial results
from an ongoing
Rainbow Trout
trial show less
gut inflammation
and increased
growth rates with

P R O C A P G O L D as a
100% replacement
for soybean meal

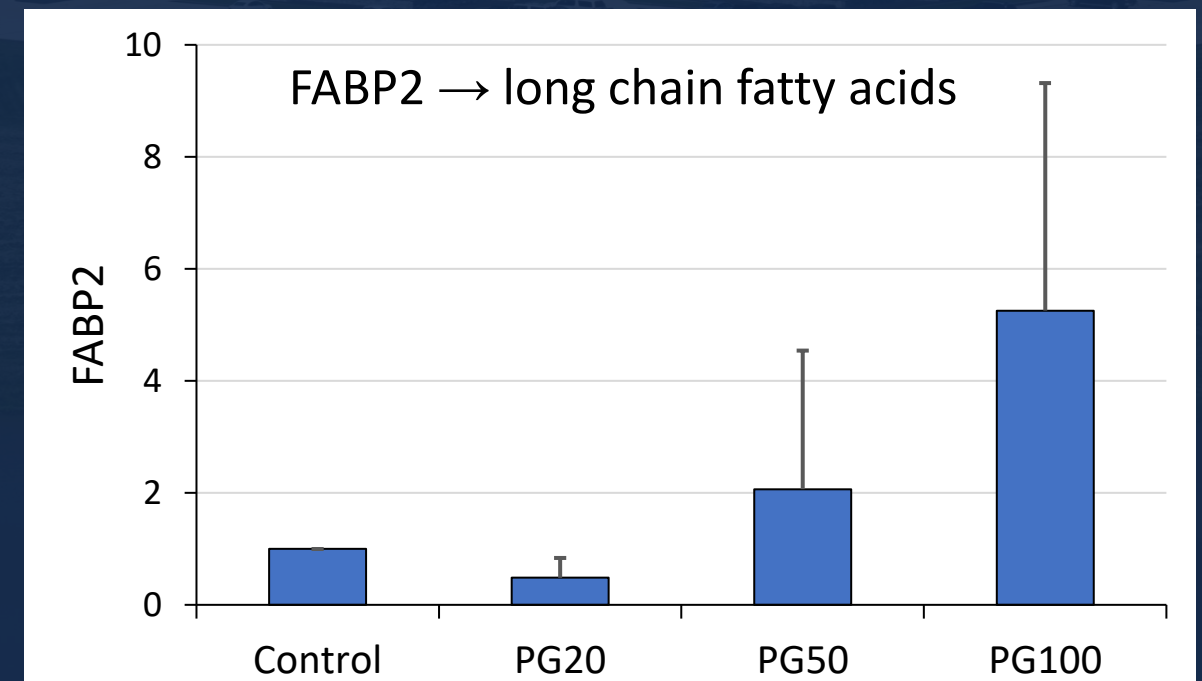
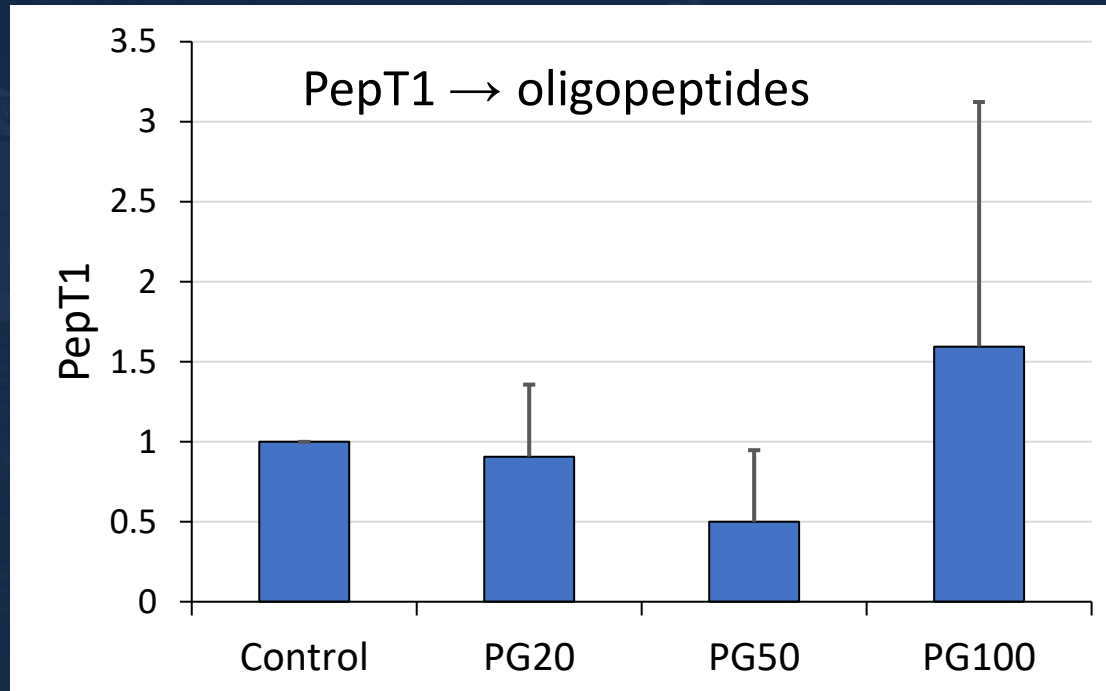
Gut Inflammation Markers



TNF- α , IL10, and MMP9 all commonly associated with soybean-induced intestinal inflammation



Nutrient Absorption Markers



High protein corn distillers' dried grains with solubles (DDGS) as a complete soybean meal replacer in Atlantic Salmon diets

Md. Sakhawat Hossain & Brian C. Small
Aquaculture Research Institute
University of Idaho

• Results

- Fish performance:
 - Final weight range = 160 – 171 g
 - Weight gain, feed intake, feed efficiency & protein efficiency similar among all treatments
- Nutrient Digestibility:
 - DDGS protein digestibility = 88.7%
 - No differences for dry matter, protein, energy and phosphorous digestibility
 - Digestibility of dietary fat was improved with increasing DDGS addition
- Health
 - 100% survival in all treatments
 - Early indication suggests increased non-specific immune function and oxidative stress tolerance as DDGS replaced soybean meal
 - Histology will be conducted to evaluate gut health



NCERC at SIUE
Advancing Biorenewables Research

LOW CARBON INTENSITY



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<https://www.iscc-system.org/certificates/valid-certificates/>

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Show 10 entries

Search: Marquis

Status ▲	Certificate ID ▲	Certificate Holder ▲	Scope* ▲	Raw Material ▲	Add-Ons** ▲	Valid From ▲	Valid Until ▼	Suspen- ded ▲	Issuing CB ▲	Map ▲	Certifi- cate ▲	Audit Report ▲
	EU-ISCC-Cert-DE105-81656511	Marquis Energy LLC, Hennepin, IL, United States	EP, TRS	Corn, techn. corn ...		2021-08-23	2022-08-22		CUCG			
	ISCC-PLUS-Cert-DE105-81656511	Marquis Energy LLC, Hennepin, IL, United States	PO, EP, TRS	Corn, techn. corn ...		2021-08-23	2022-08-22		CUCG			
	ISCC-PLUS-Cert-DE105-85888004	Marquis Energy Global Pte. Ltd., Singapore, Singapore	TR			2021-05-22	2022-05-21		CUCG			
	EU-ISCC-Cert-DE105-85888004	Marquis Energy Global Pte. Ltd., Singapore, Singapore	TR			2021-05-22	2022-05-21		CUCG			
	ISCC-PLUS-Cert-DE105-81656510	Marquis Energy LLC, Hennepin, IL, United States	EP, TRS	Corn		2020-09-23	2021-09-22		CUCG			
	ISCC-PLUS-Cert-DE105-86559602	Marquis Energy Wisconsin LLC, Necedah, Wisconsin, United States	FG, EP, WH	Corn		2020-09-18	2021-09-17		CUCG			
Status	Certificate ID	Certificate Holder	Scope*	Raw Material	Add-Ons**	Valid From	Valid Until	Suspen- ded	Issuing CB	Map	Certifi...	Audit ...

Showing 1 to 6 of 6 entries (filtered from 33,035 total entries)



valid



expired



withdrawn



suspended

Certificate

according to the
Renewable Energy Directive (RED II)

(Directive (EU) 2018/2001 on the promotion of the use of energy from renewable sources (recast))

Certificate Number: EU-ISCC-Cert-DE105-81656511

Control Union Certifications Germany GmbH
Dorotheastr. 30, D-10318 Berlin

certifies that

Marquis Energy LLC
11953 ESK Road, Hennepin, 61327 Hennepin IL
UNITED STATES

complies with the requirements of the certification system
ISCC EU
(International Sustainability and Carbon Certification)
and the requirements of the RED II.

Place of the audit

(if different from the legal address of the system user as stated above; only applicable for traders and traders with storage):

n.a.

This certificate is valid from 23.08.2021 to 22.08.2022.

The site of the system user is certified as:

Ethanol plant
Point of origin
Trader with storage

Berlin, 23.08.2021

Place and date of issue

CUC Germany GmbH
Dorotheastr. 30, D-10318 Berlin
Tel: +49 (0) 30 509 69 88 - 0
Fax: +49 (0) 30 509 69 88 - 88

Stamp, Signature of issuing party

The issuing Certification Body is responsible for the accuracy of this document.
Version / Date: 1 (no adjustments) / 23.08.2021

Annex to the certificate:

Sustainable materials handled by the certified site

(This annex is only applicable for material handled under the scopes: farm/plantation, point of origin, central office (farm/plantation or point of origin), first gathering point, processing unit (any type) but **not** for material that is only traded and/or stored)

This annex is only valid in connection with the certificate:

EU-ISCC-Cert-DE105-81656511 issued on 23.08.2021

Input material	Output material	GHG option ¹⁾	ISCC EU waste process applied ²⁾	SAI/FSA ³⁾
Corn / Maize	Bioethanol (Corn / Maize)	2	No	N.A.
	Technical corn oil	2	Yes	N.A.

- ¹⁾ 1: Default value
2: Actual value
3: NUTS 2 value or "NUTS2-equivalent" value. A "NUTS2-equivalent" value is a GHG value for cultivation in a "NUTS2-equivalent" region of a country outside the European Union (values are implemented by the European Commission). Option 3 is only applicable for the level of cultivation, i.e. for first gathering points, farms/plantations, central offices (group of farms or independent smallholders)
- ²⁾ Yes: The raw material meets the definition of waste or (processing) residue according to the RED II
No: The raw material complies with the relevant sustainability criteria according to Art. 29 (2)-(7) RED II
- ³⁾ Farm Sustainability Assessment (FSA) was developed by the Sustainable Agriculture Initiative (SAI)
SAI Silver Compliance: ISCC Compliant material can be claimed as "Equivalent to FSA 2.1 Silver"
SAI Gold Compliance: ISCC Compliant material incl. add-on SAI Gold can be claimed as "Equivalent to FSA 2.1 Gold"

The issuing Certification Body is responsible for the accuracy of this document.
Version / Date: 1 (no adjustments) / 23.08.2021



For Immediate Release

October 4, 9:15AM EST

HENNEPIN, Illinois -- Marquis Incorporated's CEO, Mark Marquis, announced a plan for the Marquis Industrial Park to be the world's first carbon-neutral industrial park with on-site carbon injection. Last week Marquis began drilling its first 5,000-foot test well to determine the total capacity available for carbon sequestration in the Mt. Simon Sandstone on its site. The Marquis Family will begin immediate development of the first of two 600 ton per day blue hydrogen and blue ammonia facilities, as well as manufacturing for carbon neutral bio-based chemicals and plastics.

The Marquis Industrial Park in Hennepin, Illinois is a 2500-acre industrial site with multiple natural gas lines, access to the electrical transmission grid, year-round river barge loading, interstate highway, and Class 1 railroad. In addition to the blue hydrogen and blue ammonia project, the plan includes a state-of-the-art soybean crushing facility to produce bio-based feedstocks for the production of renewable diesel and sustainable aviation fuels.

Marquis commented, "I am excited about low-carbon solutions to the climate crisis, however, our government has failed to recognize ethanol's value as part of the climate crisis solution. As a result, my family may reduce our exposure to the fuel-grade ethanol business."



C E R T I F I E D



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