



DDGS 가

1, DDGS

DDGS

DDGS (Distiller's Dried Grains with Solubles)

DDGS (98%) , 1-2%
 DDGS 330 , 46
 70 가 , 2005 101
 가 , 33
 가 .¹⁾ 가 .²⁾

DDGS

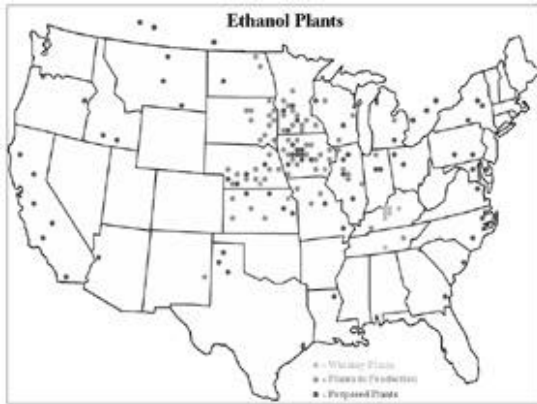
가 , 가,
 가 가
 DDGS
 가
 가 1980 32 DDGS
 가 2005 7 가
 가 가 ,
 DDGS , .³⁾
 DDGS 2 가

1) <http://www.ddgs.umn.edu/overview.htm>
 2) Annual Industry Outlook 2006 / Renewable Fuels Association
 3) <http://www.ddgs.umn.edu/overview.htm>

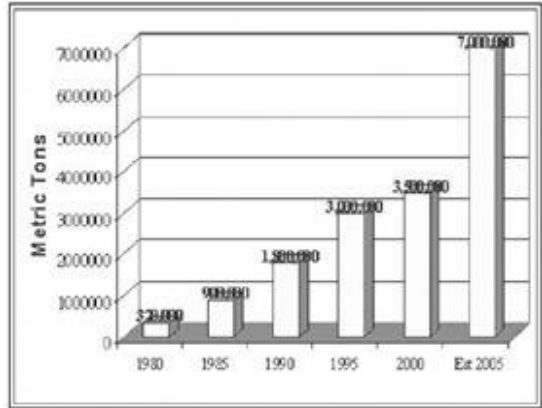


()
scymsc@freechal.com

(1)



(2) DDGS



: Feeding U.S. Corn DDGS to Livestock and Poultry , Dr Jerry Shurson , 2005

2, DDGS

DDGS, (CO₂)

가

가 . DRY MILL()

DRY MILL

DDGS

WET MILL()

101

75%가 DRY

DDGS

MILL

, 25%가 WET

(Grinding), (Mash), (Fermentation),

MIILL

. WET MILL

(Distillation)

1Bushel (25.4kg)

, DRY MILL

10.2 , DDGS 8.2kg, CO₂ 8.2kg

4)

4) DDGS Days at Long View, H.D. Tilstra, Land O'Lakes Purina Feed LLC, 2005



가 , 5%

가 CO2 , DDGS

Cooker 가 , 가

50 ~ 60 3, DDGS 가

5) , DDGS

가 가 . DDGS

가 가 DDGS 3

가 , DDGS

(1) DDGS

Nutrient	Average	Range
Dry matter, %	89.3	87.3 – 92.4
Crude protein, %	30.9 (4.7)	28.7 – 32.9
Crude fat, %	10.7 (16.4)	8.8 – 12.4
Crude fiber, %	7.2 (18.0)	5.4 – 10.4
Ash, %	6.0 (26.6)	3.0 – 9.8
Swine ME, kcal/kg	3810 (3.5)	3504 – 4048
Lysine, %	0.90 (11.4)	0.61 – 1.06
Phosphorus, %	0.75 (19.4)	0.42 – 0.99

: Feeding U.S. Corn DDGS to Livestock and Poultry , Dr Jerry Shurson , 2005

5) http://www.icminc.com/ethanol/production_process/



가 , DDGS
 , DDGS
 , DDGS 85% , 2004 110 DDGS 가 가 3
 가 , 가 가 가
 .⁶⁾ DDGS 1980 32 DDGS (가
 2005 7 , 2004 =0.53, =0.90) 가
 DDGS 44%,
 37%, 3%, 16% ,
 .⁷⁾ DDGS 2
 가
 DDGS
 Dick Ziggers (Feed tech 8.7.2004 www.
 agriworld.nl) DDGS 가 가 가
 . DDGS 가 DDGS
 . DDGS 가
 가 가 DDGS 30% DDGS
 DDGS . DDGS
 Dr. Jerry Shurson . 20% DDGS
 Golden Corn .
 DDGS
 25%, 20%,
 50%, 20% DDGS 가
 가 .⁸⁾

6) Feeding U.S. Corn DDGS to Livestock and Poultry , Dr Jerry Shurson , 2005

7) Distillers Dried Grains and Their Impact on Corn, Soymeal, and Livestock Markets - S. Markham, Commodity Specialists Company

8) Feeding U.S. Corn DDGS to Livestock and Poultry , Dr Jerry Shurson , 2005



가 DDGS 가 DDGS
 ,
 -
 .
 4, DDGS
 6%, 12% DDGS , DDGS 12% DDGS
 .
 가
 post peak diets DDGS 15%
 .
 DDGS 10%
 , , 가 DDGS 가
 10 ~ 15% , (2) DDGS
 .
 DDGS 가 DDGS 가 \$130
 DDGS 가 ,
 ,
 가 (2) ,

(2) DDGS ()

	Container	Bulk	
	()		
Railroad to PNW Port	\$130	\$130	가 +
Transload to 40 "container	\$15	-	
Loading to Bulk	-	\$5	
Documentation	\$12	\$12	
Vessel Freight charges	\$30	\$45	Handy size
Total Cost	\$187	\$192	

: / 2006.07.20. 가



\$5

가 가
 , Devanning 가 5 1
 5,000
 가 2 -2 5
 가 가
 (Bulk)
 (Handy size) , DDGS
 가 DDGS 가
 DDGS
 DDGS Scoular 가
 DDGS DDGS

