

# Oklahoma's Poultry Litter Transfer Program

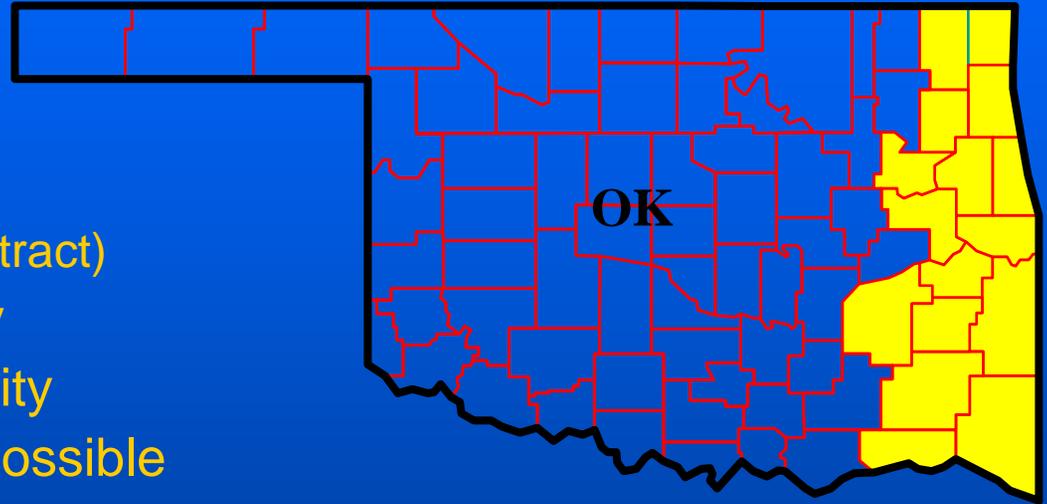
Mitch Fram,  
Area Water Quality Specialist  
OK Coop. Extension Service



# Project Location

## E. Oklahoma

- ~700 Broiler farms  
(~95% under private contract)
- 56 million birds capacity
- ~300 million/year capacity
- 300,000 T broiler litter possible
- 115,000 T reported application in OK ('04)

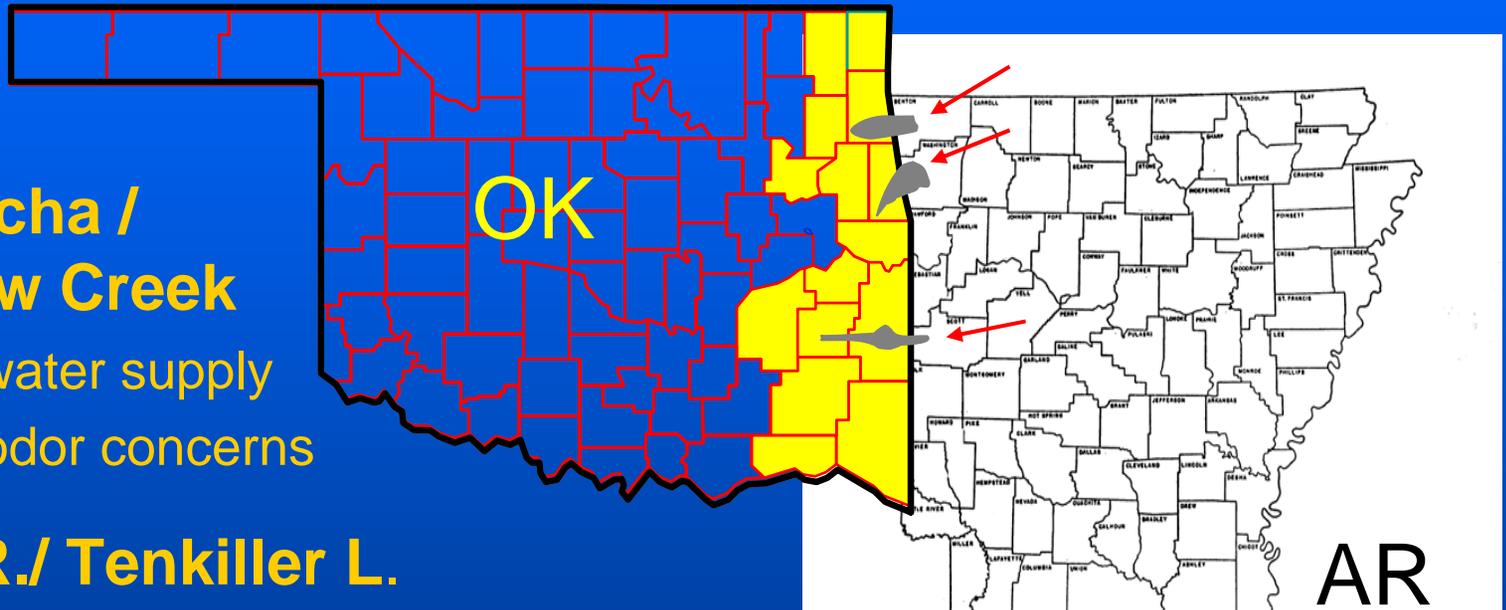


## For comparison:

### W. Arkansas (2002 data)

- 1.1 Billion birds /year
- 1,230,000 T broiler litter (some sold in OK)

# Nutrient Sensitive Watersheds



- **Lake Eucha / Spavinaw Creek**
  - Tulsa water supply
  - Taste/odor concerns

- **Illinois R./ Tenkiller L.**
  - OK designated Scenic River
  - Major recreational lake
  - water supply

- **Lake Wister**
  - Water supply for 47,000; rapidly growing area
  - Recreational use

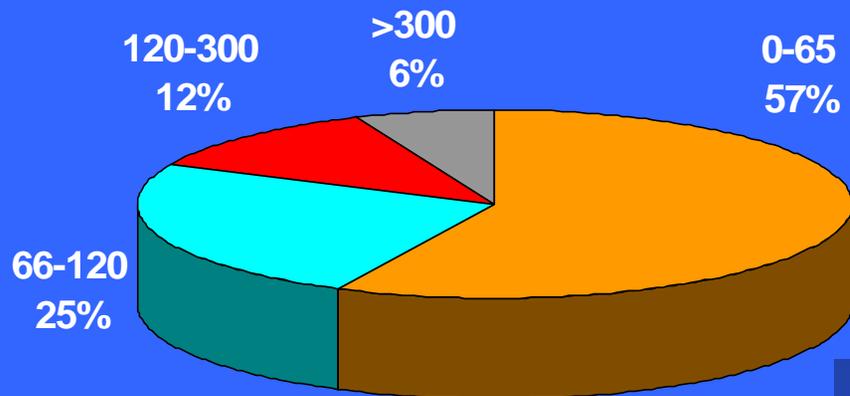


# Litter mgt. problems in area

- Historic application to local pastures. Grazing removes few nutrients.
- Application to meet N demand → excess P
- Little cropland in area for incorporation, harvest
- Timing: application to pastures w/ poor cover in early spring (exposure to runoff events)
- Lack of storage facilities

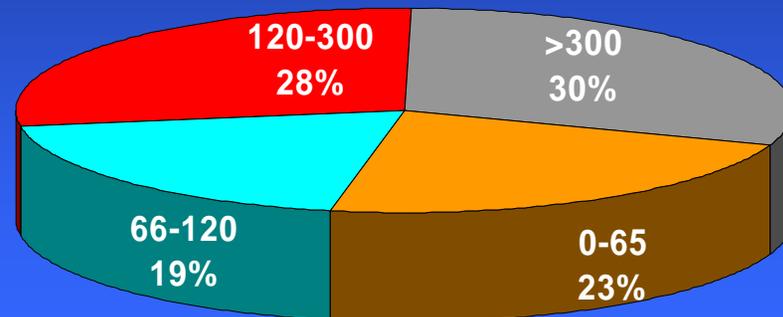


## Soil Test P Distribution on All OK Farm Land



## Soil Test P in OK, compared to poultry producing areas

### Delaware County STP 999 samples- 1998



Delaware Co.  
includes  
Eucha/Spavinaw  
watershed

# Pressure on Poultry Industry Due to Nutrient (P) Loading Concern

- Blame for eutrophication – algal blooms, turbidity in recreational lakes
- Blame for taste/odor in water supplies
- Lawsuits:
  - City of Tulsa, Lake Eucha, \$7 M settlement '02
  - State Atty. Gen'l. suit pending over Illinois R., L. Tenkiller



Lake Eucha

# Constraints to application

OK Poultry Law: Litter application based on soil test phosphorus (STP)

- STP limit of 400 lb/acre statewide
  - Only half rate application allowed above 250 STP
- 300 lb/acre limit in Eucha/Spavinaw watershed
  - Designated as “nutrient limited”
  - Half rate application above 120 STP

Full rate P = 90 lb/A = 200 lb  $P_2O_5$  =  
~3T/A broiler litter



# More Pressure

- OK Scenic River Phosphorus Standard
  - 0.037 mg/L.
  - 4 of 5 OK Scenic Rivers have headwaters in AR poultry areas
- New nutrient regs in AR increasing export of litter to OK (competition for buyers)

# Bottom Line

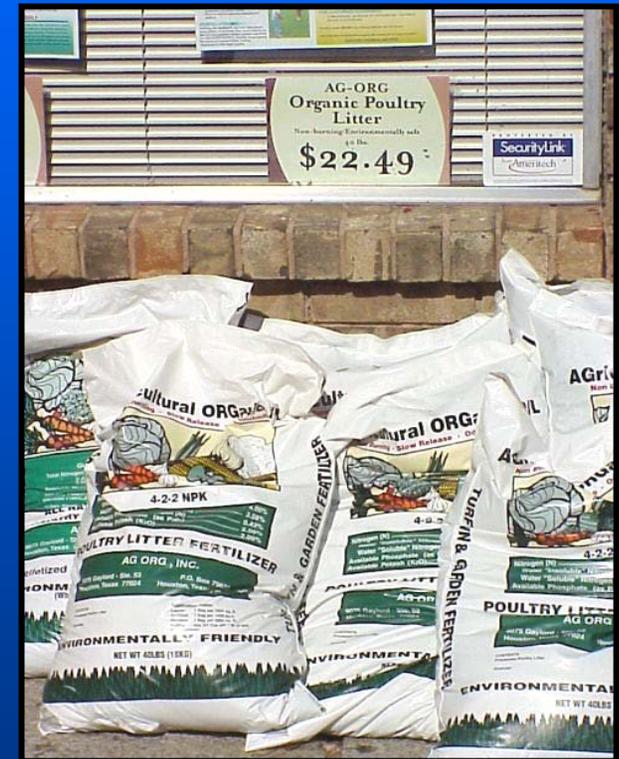
- A large amount of litter must be moved off poultry farms
- Preferably out of impacted watersheds

# Proposed Alternatives for Litter

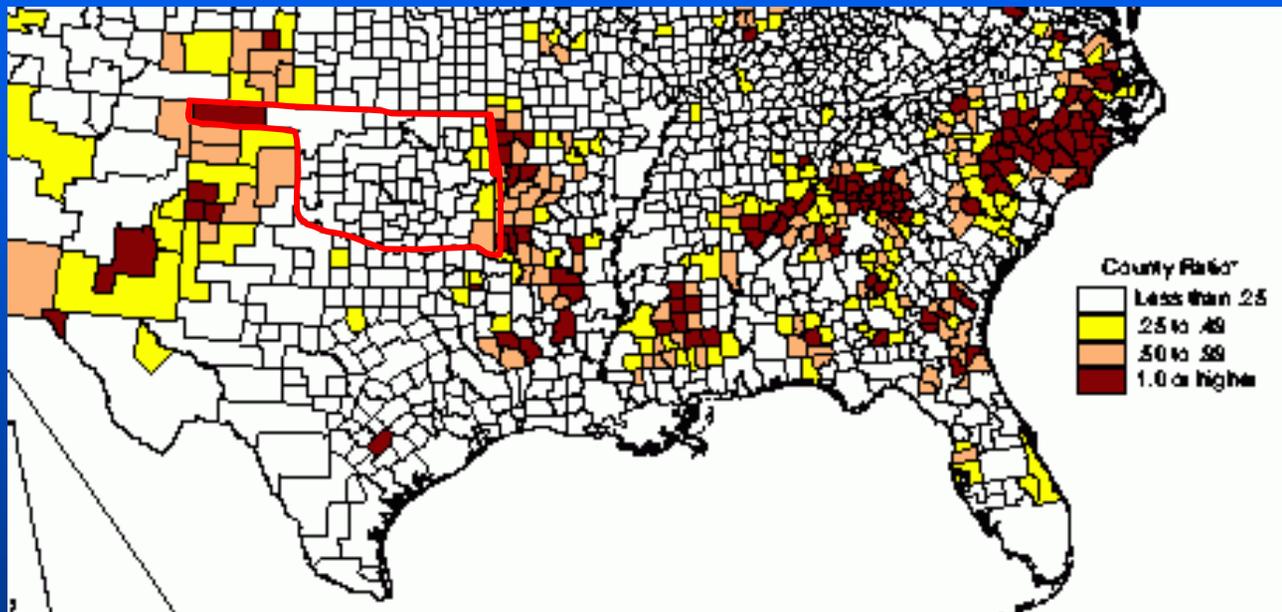
- Value-added fertilizer: composting, drying, pelleting, sacking
- Hydrolysis or combustion (power generation w/ fertilizer by-product)
- Bio-gas
- Long-distance rail shipping

**Years of discussion;  
few definitive results**

AG-ORG PL: \$22.49 per sack in supermarket



At least for medium term, hauling and direct application to nutrient deficient cropland and pasture is the viable alternative.



Ratio of manure available to assimilative capacity for P  
within counties – NRCS, '97

# Opportunities for market development

- **Large amounts of cropland, pasture available.**
  - Large acreage within 100 mi. of poultry producers is P-deficient (STP < 65 lb/acre).
- **Regulatory and integrator pressures on poultry producers to sell**
- **Increasingly favorable image of organic fertilizer**
- **Commercial fertilizer prices!**



# Obstacles to market

- **No established “industrial market”**
  - Lack of contact between buyers/sellers
  - No brokers
- **Mechanical problems**
  - Low barns, high trucks, lack of equipment
- **Low value, bulky product**
  - High hauling cost = major bottleneck
- **Regulation**
  - Litter applicators licensing, paperwork
- **Timing – “hassle factor”**
  - Especially on cropland
- **Lack of information**



# Compensating and jump-starting: Market incentives for poultry growers

## 1. Special subsidies for Eucha, Illinois, Wister (OK portions) for producers and haulers

- \$2/T minimum to producer;
- \$.05/T/loaded mi. to hauler up to \$8/T (160 mi.)
- Unused portion of \$8 hauling goes to producer
- Managed by private contractor/broker
- Funded by State + 319
- Identical program in AR portion of Eucha watershed, funded by integrators



# Litter purchaser incentives

## 2. NRCS Environmental Quality Incentives Program (EQIP)

- Statewide funding pool for manure transfer
- Payments to purchasers range from \$2.50 - \$10 depending on distance hauled
- Competitive; priority to farms where manure has never been used
- Funded @ \$250K in '05



# Purchaser Incentives, cont'd.

## 3. State income tax credit for litter purchasers

- \$5/T on litter purchased from “litter-restricted” watershed in OK.

All incentives require litter applied by Certified Poultry Waste Applicator to land in non-restricted watersheds, and applied “consistent with” AWMP



# OK Littermarket:

Cooperative project of OSU Extension and  
OK Dept. of Agriculture, Food & Forestry

## Main Objectives

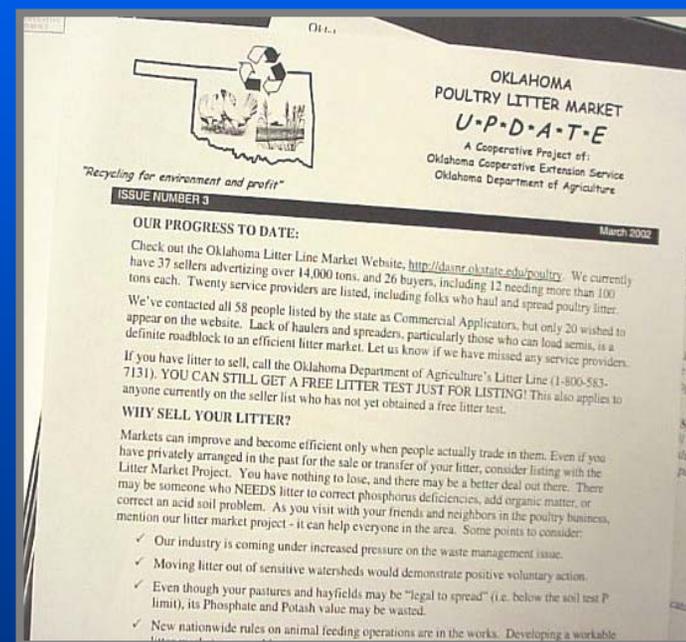
- Facilitate bulk sale & application of raw litter to pastures and crops.
- Extend current use pattern over wider area.
- Increase efficiency of existing market.



# Approaches to improve market

## 1. Educate producers

- ✓ OK mandated poultry education
- ✓ Encourage market-friendly practices (timing, storage)
- ✓ Education, media efforts w/ non-poultry producers
- ✓ County newsletters



# Project Approaches to Improve Market

## 2. Facilitate contact between sellers, buyers, haulers.

- ✓ Market website
- ✓ Hotline
- ✓ Multi-county market events
- ✓ Occasional incentives

The screenshot shows a web browser window titled "Oklahoma Litter Market - Home - Microsoft Internet Explorer - [Working Offline]". The address bar shows the URL "http://dasnr4.dasnr.okstate.edu/poultry/index.asp". The website content includes the OSU logo (Oklahoma Cooperative Extension Service), the title "OKLAHOMA LITTER MARKET", and a tagline: "Promoting a better understanding of the movement and application of poultry litter in Oklahoma." Below this are links for "CURRENT SELLERS", "CURRENT BUYERS", and "CURRENT SERVICE PROVIDERS". A "TABLE OF CONTENTS" section lists various topics like "FACT SHEETS ON LITTER", "WHAT IS POULTRY LITTER?", "HOW TO TEST ITS QUALITY?", "ARE THERE REGULATIONS?", "LITTER MARKET UPDATE", "OKLAHOMA POULTRY NEWS", "MARKETING INCENTIVES", "STATE LITTER MOVEMENT MAP", "LINKS", "MESSAGE BOARD", "ACKNOWLEDGEMENTS", and "HOME". A "LOG IN/JOIN HERE" section has fields for "New User?", "Login:", and "Password:", with "Submit" and "Reset" buttons. A "DISCLAIMER" section states that listing on the website does not imply approval. An "ANNOUNCEMENTS" section includes a link to a "Map of Nutrient Restricted or Limited Watersheds" and "Information about Marketing Incentives/Subsidies". An "IN THE NEWS" section lists several news items with dates, such as "Lawmakers Seek Solutions, 7/30/2005" and "State doubles its incentive, 3/15/2005".

# Membership market

- Members join through County Extension or OK Dept. of Ag. Litter Hotline (800 number).
- New members can join by logging themselves on to:

[www.ok-littermarket.org](http://www.ok-littermarket.org)

- New members provide details on litter -
  - Offered for sale
  - Wanted to buy
  - Services provided  
(cleanout, loading, hauling)



# Membership Market, Cont'd.

- As staff time permits:
  - Phone follow-up with members
  - Database maintenance
- All new members get a letter
- E-mail alerts when new members join



# Summary of Market Listings

year	'00-01		'02-03		'04-05	
	no.	Tons	no.	Tons	no.	Tons
Sellers	142	40.5K	63	16.5K	82	15K+
Buyers	165	69.4K	73	18.9K	107	31K+
Haulers/ spreaders	19	-	16	-	33	-
Ratio Sellers/Buyers	.86	.58	1.4	2.0	.77	.48

Listed range of prices: \$0 - \$15/T;  
most list as negotiable



# Follow-up calls Jan.-Mar. 05

	sellers	buyers	haulers
Able to contact	75%	76%	74%
Proportion contacted wanting to remain	78%	70%	82%

# Visits to website as of Oct. 05

- Sellers' list – 35,265
- Buyers' list – 29,088
- Haulers' list – 19,846





# OKLAHOMA LITTER MARKET

*"Promoting a better understanding of the movement  
and application of poultry litter in Oklahoma."*

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## DISCLAIMER

Listing your company on the Litter Market website does not imply approval for or participation in any subsidy or incentive programs. Applications for incentives are available from the sponsoring agencies or organizations.

The purpose of this website is solely to educate and improve communication between buyers, sellers, and poultry litter service providers.

## ANNOUNCEMENTS

[Map of Nutrient Restricted or Limited Watersheds](#)  
[Information about Marketing Incentives/Subsidies](#)

Click [here](#) to see a [new and improved system](#) for calculating the dollar value of the total fertilizer nutrients in litter, based on commercial fertilizer prices. After you are finished, you can print out your calculations for further reference.

## IN THE NEWS

- [Muskogee Phoenix Editoril Page June 19 2005, 6/22/2005](#)
- [Lawsuit Fuels Concerns For Arkansas, Oklahoma Economy, 6/22/2005](#)
- [State doubles its incentive, 3/15/2005](#)
- [Incentives to buy and sell litter, 3/4/2005](#)
- [Company puts waste to work, 1/26/2005](#)

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## WELCOME TO REAL-TIME BUYER DATA!

This is a list of all buyers in our database. If you want to sort records by buyer name, county name, phone or amount of litter needed, please, click on the appropriate column's name. If you want to see the details about each buyer, please, click on that individual's name.

Currently there are **34** buyers in our database.

You are visiting page **1**. Go to page [1](#) [2](#) [3](#) [4](#)

<u>Name</u>	<u>County</u>	<u>Phone</u>	<u>Amount Needed</u>	<u>Date Updated</u>
<a href="#">David Allen</a>	Tulsa	918-381-4393	180 tons	September 17, 2002
<a href="#">Charley Barnett</a>	Pottawatomie	405-273-3939	200 tons	September 17, 2002
<a href="#">Larry Barrett</a>	Oklahoma	405-277-9309	50 tons	September 17, 2002
<a href="#">Black Fox Ranch</a>	Cherokee	918-366-6165	0 tons	September 17, 2002
<a href="#">Morgan Blair</a>	Tulsa	918-251-8857	210 tons	September 17, 2002
<a href="#">Albert Chisum</a>	Creek	918-267-5015	50 tons	September 17, 2002
<a href="#">Lena Collard</a>	Hughes	405-645-2561	500 tons	September 17, 2002
<a href="#">Everett or Anna Culvey</a>	Pushmataha	580-587-2515	300 tons	January 20, 2003
<a href="#">Johnny Daniels</a>	Adair	501-524-4525	100 tons	September 17, 2002
<a href="#">Noah Easton</a>	Tulsa	918-366-8930	20 tons	September 17, 2002

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<u>Name</u>	<u>County</u>	<u>Phone</u>	<u>Amount Needed</u>	<u>Date Updated</u>
<a href="#">Johnny Daniels</a>	Adair	501-524-4525	100 tons	September 17, 2002
<a href="#">Lenert Pfeiler</a>	Adair	918-696-6232	100 tons	September 17, 2002
<a href="#">Dr Phil Keeter</a>	Adair	918-696-6232	0 tons	September 17, 2002
<a href="#">Marshall Farrier</a>	Adair	918-723-4500	800 tons	September 17, 2002
<a href="#">Dr. Pauline Sanders</a>	Adair/Cherokee	918-456-1489	500 tons	September 17, 2002
<a href="#">Larry Jones</a>	Cherokee	918-598-3368	800 tons	September 17, 2002
<a href="#">Black Fox Ranch</a>	Cherokee	918-366-6165	0 tons	September 17, 2002
<a href="#">Mitch Fram</a>	Cherokee	918-868-2802	35 tons	October 16, 2002
<a href="#">Sam Fleming</a>	Choctaw	580-566-2930	100 per month tons	January 23, 2003
<a href="#">Lyndle Shelby</a>	Clarke	641-342-7013	500 tons	December 9, 2002

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<u>Name</u>	<u>County</u>	<u>Phone</u>	<u>Amount Needed</u>	<u>Date Updated</u>
<a href="#">Greg Roquet</a>	Craig	918-782-2232	0 tons	September 17, 2002
<a href="#">Jack Mooney</a>	Craig	918-783-5515	600 tons	September 17, 2002
<a href="#">Albert Chisum</a>	Creek	918-267-5015	50 tons	September 17, 2002
<a href="#">Ron Stoll</a>	Delaware	918-868-2236	2000 tons	September 17, 2002
<a href="#">Lena Collard</a>	Hughes	405-645-2561	500 tons	September 17, 2002
<a href="#">Kevin Ormand</a>	Kay	580-362-3252	80 tons	September 17, 2002
<a href="#">Sam Gentry</a>	LeFlore	918-647-4355	2000 tons	September 17, 2002
<a href="#">H.L. Staples</a>	Lincoln	405-964-2811	0 tons	September 17, 2002
<a href="#">B.D. Price</a>	Loncoln	405-567-3564	0 tons	September 17, 2002
<a href="#">Dick Sheffield</a>	Muskogee	918-478-2713	40 tons	September 17, 2002



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## BUYER PROFILE: Jack Mooney

Data Category	Data Entry
Name	Jack Mooney
Address	Rt.1, Box 228
City, State, Zip	Big Cabin, OK 74332
County	Craig
Phone	918-783-5515
Cleaning Service Needed?	Yes
Loading Service Needed?	Yes
Trucking Service Needed?	Yes
Spreading Service Needed?	No
Amount Needed, tons	600
Date Updated	September 17, 2002

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Currently there are **41** sellers in our database.

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<u>Name</u>	<u>County</u>	<u>Phone</u>	<u>Litter Type</u>	<u>Price</u>	<u>Amount</u>	<u>Date</u>
<a href="#">Gene Allen</a>	Delaware	918-253-8175	Broiler	\$10	300 tons	March 15, 2003
<a href="#">Barney Barns</a>	Delaware	918-253-2433	Broiler	\$4	500 tons	June 15, 2003
<a href="#">Gary Bradley</a>	Delware	918-253-8190	Broiler	\$n/a	n/a tons	n/a
<a href="#">Steve Brubaker</a>	n/a	417-472-7582	Broiler	\$n/a	300 tons	May 1, 2002
<a href="#">Vernie Chamberlain</a>	Delaware	918-326-4595	Breeder	\$n/a	400 tons	February 1, 2003
<a href="#">Saundra Conley</a>	LeFlore	918-655-7975	Broiler	\$n/a	250 tons	October 1, 2002
<a href="#">Irene Davis</a>	Leflore	918-653-2580	Broiler	\$10	150 tons	June 1, 2003
<a href="#">Virgil Davis</a>	LeFlore	918-653-2665	Broiler	\$10	100 tons	October 22, 2002
<a href="#">Sam Dick</a>	Delaware	918-529-4462	Breeder	\$n/a	250 tons	November 1, 2002
<a href="#">Calvin Dilbeck</a>	Delaware	918-529-4467	Broiler	\$n/a	200 tons	December 1, 2002

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<u>Name</u>	<u>County</u>	<u>Phone</u>	<u>Litter Type</u>	<u>Price</u>	<u>Amount</u>	<u>Date</u>
<a href="#">Edwin Johnston</a>	LeFlore	918-653-7403	Broiler	\$n/a	250 tons	n/a
<a href="#">Gary Bradley</a>	Delware	918-253-8190	Broiler	\$n/a	n/a tons	n/a
<a href="#">Donald Frost</a>	LeFlore	918-653-7700	Broiler	\$10	200 tons	March 25, 2002
<a href="#">Greg Roquet</a>	Craig	918-782-2232	Broiler	\$10	300 tons	March 30, 2002
<a href="#">Noy Oudomparamy</a>	LeFlore	918-649-5318	Broiler	\$8	750 tons	April 1, 2002
<a href="#">Lewis Howery</a>	LeFlore	918-962-9412	Broiler	\$6	150 tons	April 4, 2002
<a href="#">Steve Brubaker</a>	n/a	417-472-7582	Broiler	\$n/a	300 tons	May 1, 2002
<a href="#">Sony Thepouthay</a>	LeFlore	918-649-0805	Broiler	\$10	450 tons	May 31, 2002
<a href="#">Cody Smith</a>	LeFlore	918-649-0020	Broiler	\$10	300 tons	June 1, 2002
<a href="#">Larry Hamlin</a>	Pittsburgh	918-469-2155	Broiler	\$10	450 tons	June 1, 2002

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Name	County	Phone	Litter Type	Price	Amount	Date
<a href="#">Tom Strombeck</a>	Adair	918-723-5128	Breeder	\$n/a	120 tons	March 8, 2003
<a href="#">Gene Allen</a>	Delaware	918-253-8175	Broiler	\$10	300 tons	March 15, 2003
<a href="#">Frank Howery</a>	LeFlore	918-963-3306	Broiler	\$6	150 tons	April 1, 2003
<a href="#">Gary Steelman</a>	LeFlore	918-653-5002	Breeder	\$n/a	160 tons	April 1, 2003
<a href="#">Cecil ONeal</a>	LeFlore	918-677-2463	Broiler	\$n/a	200 tons	May 1, 2003
<a href="#">James Hudson</a>	Delaware	918-529-4659	Breeder	\$n/a	250 tons	May 15, 2003
<a href="#">Irene Davis</a>	Leflore	918-653-2580	Broiler	\$10	150 tons	June 1, 2003
<a href="#">Rick Williams</a>	LeFlore	918-963-2567	Broiler	\$\$12	300 tons	June 1, 2003
<a href="#">Eva Winchester</a>	Delawre	918-529-4236	Broiler	\$n/a	240 tons	June 1, 2003
<a href="#">Barney Barns</a>	Delaware	918-253-2433	Broiler	\$4	500 tons	June 15, 2003

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## SELLER PROFILE: Frank Howery

Data Category	Data Entry
Name	Frank Howery
Address	Rt 1 Box 123C
City, State, Zip	Spiro, OK 74959
County	LeFlore
Phone	918-963-3306
Was the Litter Tested?	Yes
Litter Type	Broiler
Price Requested, \$/ton	6
Amount Available, tons	150
Date Available	April 1, 2003
Cleaning Service Provided?	No
Loading Service Provided?	No
Trucking Service Provided?	No
Spreading Service Provided?	No
Date Updated	September 18, 2002



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- [Economical Use of Poultry Litter in Cattle Grazing - Case Study I](#)
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All fields marked with \* are required!

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\* Last Name:

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\* County:

\* State:

Zip:

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Your **contact information** has been successfully **added** to our database!

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### YOUR INFORMATION AS A SELLER

*All fields are optional!*

Can you provide clean-out services?  Yes  No  
Can you provide loading services?  Yes  No  
Can you provide trucking services?  Yes  No  
Can you provide spreading services?  Yes  No  
Do you provide any other services?

Was litter tested?  Yes  
If Yes, Date of the Test (mm/dd/yyyy):   
Content of N (lb/ton):   
Content of P<sub>2</sub>O<sub>5</sub> (lb/ton):   
Content of K<sub>2</sub>O (lb/ton):   
Moisture (%):   
Litter Type:   
Price Requested (\$/ton):   
Amount Available (tons):   
Date Available (mm/dd/yyyy):   
Additional comments:

*Info about Hauler and Applicator will not be displayed in the queries!*

Hauler Customarily Used:   
Hauler's Phone Number: (  )  -   
Applicator Customarily Used:   
Applicator's Phone Number: (  )  -

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Your **batch of litter for sale** has been successfully **added** to the database!

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### WELCOME TO REAL-TIME SELLER DATA!

This is a list of all sellers in our database. If you want to sort records by seller name, county name, phone, litter type, litter price, amount available or date available fields, please, click on the appropriate column's name. If you want to see the details about each seller, please, click on that individual's name.

Currently there are **42** sellers in our database.

You are visiting page **2**. Go to page [1](#) [2](#) [3](#) [4](#) [5](#)

<u>Name</u>	<u>County</u>	<u>Phone</u>	<u>Litter Type</u>	<u>Price</u>	<u>Amount</u>	<u>Date</u>
<a href="#">Don Dixon</a>	Craig	918-323-0046	Turkey	\$n/a	1600 tons	March 1, 2004
<a href="#">fram</a>	Muskogee	918-687-2466	Broiler	\$3	120 tons	May 4, 2003
<a href="#">Donald Frost</a>	LeFlore	918-653-7700	Broiler	\$10	200 tons	March 25, 2002
<a href="#">Bob Hallmark</a>	McCurtain	580-584-6391	Broiler	\$5	300 tons	March 1, 2003
<a href="#">Larry Hamlin</a>	Pittsburgh	918-469-2155	Broiler	\$10	450 tons	June 1, 2002
<a href="#">Jack Hickey</a>	Adair	918-696-6808	Broiler	\$n/a	200 tons	September 1, 2002
<a href="#">Lewis Howery</a>	LeFlore	918-962-9412	Broiler	\$6	150 tons	April 4, 2002
<a href="#">Frank Howery</a>	LeFlore	918-963-3306	Broiler	\$6	150 tons	April 1, 2003
<a href="#">James Hudson</a>	Delaware	918-529-4659	Breeder	\$n/a	250 tons	May 15, 2003
<a href="#">James Hughes</a>	Mayer	918-479-8483	Broiler	\$2	240 tons	February 1, 2003



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**SELLER PROFILE: fram**

Data Category	Data Entry
Name	fram
Address	
City, State, Zip	Muskogee, OK
County	Muskogee
Phone	918-687-2466
Was the Litter Tested?	Yes
Date of the Test	January 30, 2003
N Content, lb/ton	60
P2O5 Content, lb/ton	65
K2O Content, lb/ton	55
Moisture Content, %	20
Litter Type	Broiler
Price Requested, \$/ton	3
Amount Available, tons	120
Date Available	May 4, 2003
Cleaning Service Provided?	Yes
Loading Service Provided?	No
Trucking Service Provided?	No
Spreading Service Provided?	No
Other Service	soiltesting
Date Updated	January 30, 2003





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## HOW TO CALCULATE VALUE OF TOTAL NUTRIENTS IN LITTER

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## STEP ONE: COST OF NUTRIENTS IN COMMERCIAL FERTILIZER

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## DETERMINE COST PER POUND OF N IN UREA

\$  cost per ton urea / 920 lb

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## RESULTS

## DETERMINE VALUE OF P2O5 PER TON OF DAP \*

- N value per ton of DAP is \$ 84.13
- Cost per lb of N in urea is \$ 0.234

\$  total cost per ton of DAP - \$ 84.13 value of N per ton of DAP

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\* DAP = Diammonium phosphate fertilizer

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## RESULTS

## DETERMINE COST PER LB OF K<sub>2</sub>O

- Cost per lb of P<sub>2</sub>O<sub>5</sub> in DAP is \$ 0.167
- P<sub>2</sub>O<sub>5</sub> value per ton of DAP is \$ 153.87
- N value per ton of DAP is \$ 84.13
- Cost per lb of N in urea is \$ 0.234

\$  cost per ton / 1200 lb K<sub>2</sub>O per ton

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## RESULTS

## STEP TWO: ANALYSIS FROM LAB

- Cost per lb of K<sub>2</sub>O is \$ 0.146
- Cost per lb of P<sub>2</sub>O<sub>5</sub> in DAP is \$ 0.167
- P<sub>2</sub>O<sub>5</sub> value per ton of DAP is \$ 153.87
- N value per ton of DAP is \$ 84.13
- Cost per lb of N in urea is \$ 0.234

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## RESULTS

## MANURE TEST VALUES (AS-IS BASIS)

- **Cost per lb of K<sub>2</sub>O is \$ 0.146**
- Cost per lb of P<sub>2</sub>O<sub>5</sub> in DAP is \$ 0.167
- P<sub>2</sub>O<sub>5</sub> value per ton of DAP is \$ 153.87
- N value per ton of DAP is \$ 84.13
- Cost per lb of N in urea is \$ 0.234

lb N per ton of litter (year one)\*

lb P<sub>2</sub>O<sub>5</sub> per ton of litter

lb K<sub>2</sub>O per ton of litter

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\* Estimated 70% availability in first year. In subsequent years' applications, about 70% can be considered available. So, we'll multiply your initial value by 0.7

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## RESULTS

## STEP THREE: CALCULATING FINAL VALUES

- 55 lb K<sub>2</sub>O per ton of litter
- 60 lb P<sub>2</sub>O<sub>5</sub> per ton of litter
- 52.5 lb N per ton of litter
- Cost per lb of K<sub>2</sub>O is \$ 0.146
- Cost per lb of P<sub>2</sub>O<sub>5</sub> in DAP is \$ 0.167
- P<sub>2</sub>O<sub>5</sub> value per ton of DAP is \$ 153.87
- N value per ton of DAP is \$ 84.13
- Cost per lb of N in urea is \$ 0.234

After adjusting  
for availability

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## RESULTS

- Total value per ton of litter is \$ 30.319
- K<sub>2</sub>O value per ton of litter is \$ 8.03
- P<sub>2</sub>O<sub>5</sub> value per ton of litter is \$ 10.02
- N value per ton of litter is \$ 12.269
- 55 lb K<sub>2</sub>O per ton of litter
- 60 lb P<sub>2</sub>O<sub>5</sub> per ton of litter
- 52.5 lb N per ton of litter
- Cost per lb of K<sub>2</sub>O is \$ 0.146
- Cost per lb of P<sub>2</sub>O<sub>5</sub> in DAP is \$ 0.167
- P<sub>2</sub>O<sub>5</sub> value per ton of DAP is \$ 153.87
- N value per ton of DAP is \$ 84.13
- Cost per lb of N in urea is \$ 0.234

[Click here to get a detailed printout of your calculations](#)

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# OKLAHOMA LITTER MARKET

*"Promoting a better understanding of the movement  
and application of poultry litter in Oklahoma."*

■ [CURRENT SELLERS](#) ■ [CURRENT BUYERS](#) ■ [CURRENT SERVICE PROVIDERS](#)

## TABLE OF CONTENTS

- [FACT SHEETS ON LITTER](#)
- [WHAT IS POULTRY LITTER?](#)
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## DISCLAIMER

Listing your company on the Litter Market website does not imply approval for or participation in any subsidy or incentive programs. Applications for incentives are available from the sponsoring agencies or organizations.

The purpose of this website is solely to educate and improve communication between buyers, sellers, and poultry litter service providers.

## ANNOUNCEMENTS

[Map of Nutrient Restricted or Limited Watersheds](#)  
[Information about Marketing Incentives/Subsidies](#)

Click [here](#) to see a [new and improved system](#) for calculating the dollar value of the total fertilizer nutrients in litter, based on commercial fertilizer prices. After you are finished, you can print out your calculations for further reference.

## IN THE NEWS

- [Muskogee Phoenix Editoril Page June 19 2005, 6/22/2005](#)
- [Lawsuit Fuels Concerns For Arkansas, Oklahoma Economy, 6/22/2005](#)
- [State doubles its incentive, 3/15/2005](#)
- [Incentives to buy and sell litter, 3/4/2005](#)
- [Company puts waste to work, 1/26/2005](#)

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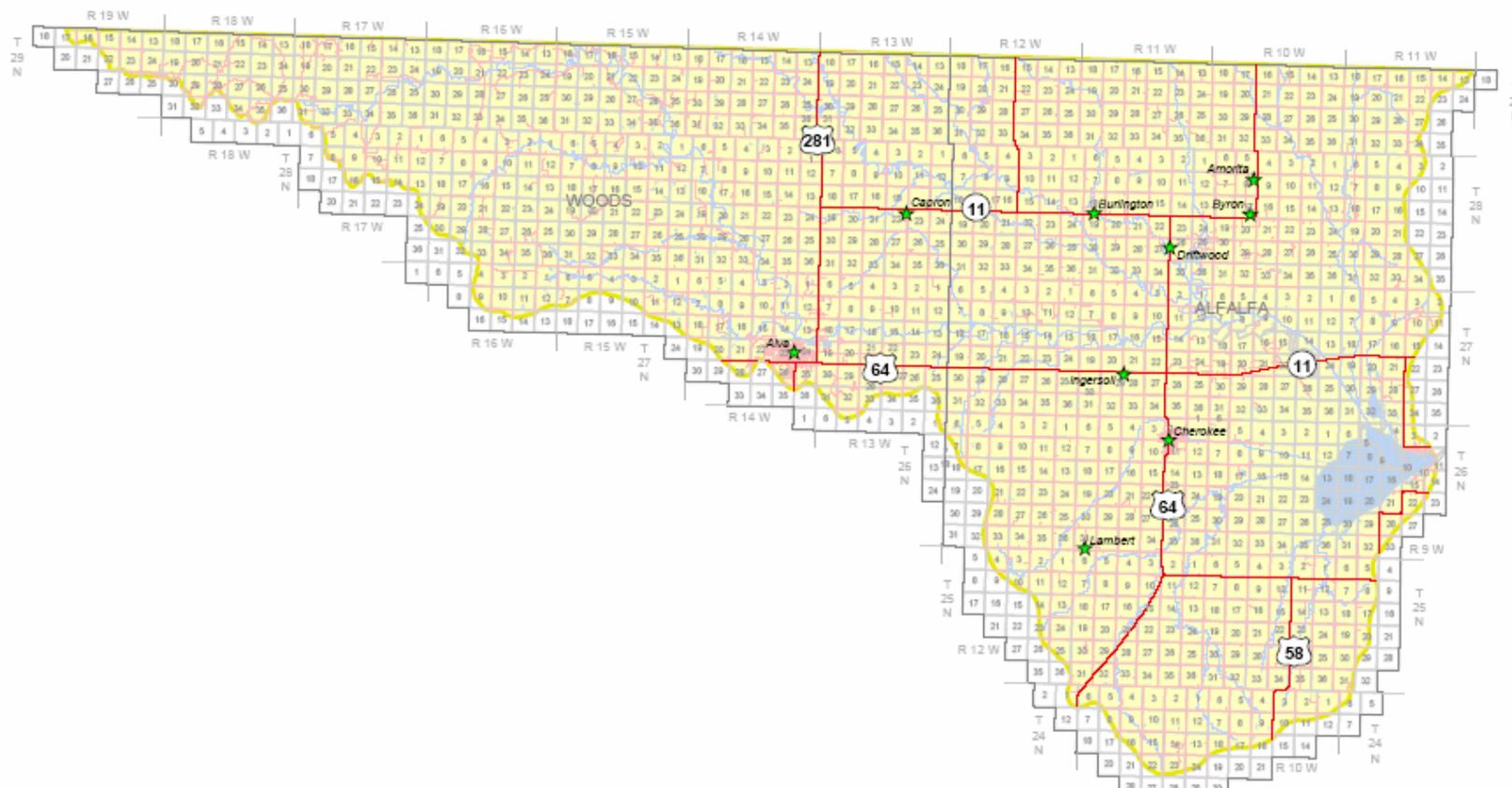
## MAP OF NUTRIENT RESTRICTED OR LIMITED WATERSHEDS

click on an area to get a detailed map (not all watersheds available yet)

[back home](#)



# Litter Restricted Watershed Great Salt Plains Lake Watershed



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