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### Salmonella in Horses: a Source of Contamination of Horsemeat in a Packing Plant Under Federal Inspection

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Cecal samples from 270 slaughter horses revealed that 41 samples (15.1%) contained Salmonella. Of 233 horsemeat samples tested, Salmonella was isolated from 62 samples, or 26.6%. Only 2 of 158 human stool specimens from the plant workers revealed Salmonella. Predominant serotypes isolated from the horsemeat were Salmonella enteritidis Good and Anatum, whereas the serotypes Agona and Derby predominated the horse cecal isolates. Preliminary data indicate that the high percentage of meat contamination is surface contamination due to poor slaughtering technique.

Very little information is found in the literature concerning the incidence of Salmonella in horses. Prost and Riemann (12) discussed the incidence of Salmonella in slaughter horses and indicated that the occurrence is low. However, Meara (7) recently reviewed this topic and showed with meat imported into the United Kingdom that 42% of horsemeat samples and 50% of horse offal samples were contaminated with Salmonella. Horsemeat from South America imported into Holland showed 15% Salmonella contamination to carcass meat and 57% Salmonella contamination in boneless meat. Schothorst and Kampelmacher (14) have shown that in meat imported from South American countries into European countries, Salmonellae were isolated from 278 of 800 samples (34.7%) of frozen carcass or boneless horsemeat.

Salmonella contamination in fresh meat from horses is an international problem. People in this country do not consume a relatively large amount of this product, but there are approximately a dozen horsemeat-packing firms operating in this country. The plants are producing fresh meat, both whole carcasses and boneless, to be exported fresh and frozen into foreign countries for human consumption. The purpose of this communication is to discuss our findings during a 1-year study in one of these plants.

### MATERIALS AND METHODS

Between October 1974 and August 1975, 270 horse cecal samples, 158 human stool samples, and 233 horsemeat samples were obtained as random samples from a horsemeat-packing plant near the university campus. Buffered glycerol saline transport medium (BBL) was used to transport the stool specimens. No transport medium was added to the meat

samples, but the isolation procedure for meat was begun the day the samples were obtained.

The methodology of Salmonella isolation is well documented (1, 9), and the techniques described in the United States Department of Agriculture's Microbiology Laboratory Guidebook (1) were used for meat analysis. The Texas State Department of Health procedure, which was originally described by Edwards and Ewing (5a), was used for human and horse stool analysis.

Meat sampling. Meat surfaces were sampled with sterile or alcohol-sanitized knives. Typically, whole carcasses were sampled on the forequarter or foreleg. Boneless meat was most commonly taken from open boxes in the boning room. Meat samples were placed in sterile jars, capped, and transported to the laboratory. The testing procedure was begun on the same day as sampling. A 25-g sample of meat was obtained by using a sterile technique. This 25-g quantity was placed into sterile blender jars with 250 ml of sterile lactose broth and 1.5 ml of Tergitol 7 (Sigma Chemical Co.). Blending proceeded for 2 min. The pre-enrichment incubation was performed overnight at 35 C in the blender jars. Enrichment, isolation, and biochemical identification strictly followed the Microbiology Laboratory Guidebook (1).

### RESULTS AND DISCUSSION

The value of serotype distribution in the genus Salmonella is a widely recognized and used epidemiological tool. During an 11-month period, extending from October 1974 through August 1975, experiments were conducted in a horsemeat-packing plant to study the distribution of Salmonella serotypes in the plant. This survey concerned only those isolations from horsemeat, the horse cecum, and stools of plant personnel. A total of 14 serotypes were isolated (Table 1). Two serotypes, Agona and Anatum, were encountered in all three places of isolation. The horse cecum proved to be a prominent

place for isolating Salmonella, with eight serotypes isolated from it. Table 2 depicts these eight serotypes with frequency of isolation and percentage of total horse cecal isolates. The serotypes Agona and Derby were the most commonly encountered serotypes, being found 17 and 10 times, respectively, in 270 horse cecal samples. Two serotypes, Montevideo and Siegburg, were isolated exclusively from the cecum; however, each of these serotypes was isolated only once.

Horsemeat showed the most contamination, with a total of 12 serotypes isolated from it. Table 3 shows the frequency of isolation of these 12 serotypes and the percentage of total meat isolations. The serotypes Good and Anatum proved to be the most commonly encountered serotypes in the meat, being found 19 and 18 times, respectively, out of 233 horsemeat samples. Six of the serotypes in horsemeat were found exclusively as meat contaminants; however, five of these were found only once.

The serotype St. Paul proved to be an interesting case. It was isolated eight times for a frequency of 12.9% in horsemeat only; it never was detected in the horse cecum. By categoriz-

TABLE 1. Salmonella serotypes isolated from horsemeat, horse ceca, and plant employees

	Pla	ce of isola	tion
Serotype	Horse- meat	Horse cecum	Human stool
Agona	х	x	х
Anatum	x	x	x
Derby	х	x	
Good	х	x	
Paratyphi B	х	x	
Newport	x	x	
Montevideo		x	
Siegburg		х	
St. Paul	x		
Drypool	х		
Oranienberg	х .		
Alabama	x		
Heidelberg	x		
San Diego	x		

ing all the serological types taken from meat into areas of isolation in the abattoir (Table 4), it can be seen that the serotype St. Paul was isolated from samples of boned meat taken from the boning room. This perhaps could suggest other sources of contamination besides horse feces.

In preliminary experiments involving 18 intact carcasses, contamination appeared only on surface samples and never in deep muscle samples. Six carcasses showed surface contamination, but no subsurface sample revealed Salmonella. Questions have been posed in the literature (12) concerning the possibility of a carrier animal's tissues being contaminated with Salmonella. Schothorst and Kampelmacher (14)

Table 2. Salmonella serotypes isolated from the horse cecum

Serotype	Isolation fre- quency	% of total horse ce- cal isolates
Agona	17	41.5
Derby	10	24.4
Anatum	5	12.2
Good	3	7.3
Paratyphi B	2	4.9
Newport	2	4.9
Montevideo	1	2.4
Siegburg	1	2.4

Table 3. Salmonella serotypes isolated from

	noi semeat	
Serotype	Frequency	% of total meat iso- lation
Good	19	30.6
Anatum	18	29
St. Paul	8	12.9
Drypool	4	6.5
Newport	3	4.8
Oranienberg	3	4.8
Agona	2	3.2
Alabama	1	1.6
Derby	1	1.6
Paratyphi B	1	1.6
Heidelberg	1	1.6
San Diego	1	1.6

Table 4. Salmonella serotypes encountered in horsemeat in different areas of the abattoir

Boning room (boned meat)		Kill floor		Hanging room (carcass meat)	
Serotype	Frequency	Serotype	Frequency	Serotype	Frequency
Anatum	7	Good	7	Anatum	8
Good	5	Anatum	3	Good	7
St. Paul	5	St. Paul	2	Drypool	9
Newport	3	Drypool	ī	San Diego	1
Oranienberg	2	Oranienberg	1	Heidelberg	1
Drypool	1	Agona	î	Paratyphi B	1
Derby	1		•	St. Paul	1
				Alabama	i
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have stated that external contamination is much more common than internal contamination.

A large number of serotypes were found both in the horse cecum and in horsemeat (Table 1). This supports the idea that a major source of meat contamination is horse feces. However, no explanation can be given for the large variation in the isolation frequency of certain serotypes from meat and the horse cecum. Both samplings were random, and no carcasses were sampled for both cecal and meat isolations.

The distribution of Salmonella in the environment has been the subject of research effort in recent times. Cherry et al. (2) have suggested the use of Salmonellae as an index of surface water pollution. Environmental contamination should be a common concern of all meat-processing firms. Conversely, a number of researchers (3, 6, 13) have shown the significance of packing plant runoff as a source of environmental contamination.

In a study involving an ecological survey of a freshwater lake, Cook et al. (4) reported the isolation of Salmonella enteritidis serotype Agona, a newly emerging serotype, from a freshwater lake that received poultry processing wastes. In 1973 the serotype Agona was the seventh most common human Salmonella isolate at the Center for Disease Control; consequently, the authors described it as an emerging serotype. They linked the worldwide emergence of this serotype to the need for and wide use of fish meal in animal feeds. Crumrine et al. (5) have even shown that during storage, grain insects are involved in Salmonella montevideo transmission in wheat.

No extensive data have been compiled on the Salmonella serotypes isolated from given animal species. Morse and Duncan (8), however, give an adaptation of a table from the work of W. H. Ewing describing the ecological divisions of Salmonella. Three groups are included: I, II, and III. Group I are serotypes more or less adapted to man, group II are animal-adapted serotypes, and group III are unadapted serotypes. It would be very valuable indeed to have data relating different serological types to different animal species. The serotype Typhimurium appears to be an important horse pathogen (8, 10, 11); however, other serotypes have been shown in horses and have produced disease (8, 11). Of the 23 serotypes reported to have been isolated from horsemeat by Schothorst and Kampelmacher (14), our investigation revealed 9 of the same serotypes, with a striking similarity in the most frequently isolated serotypes.

Concerning this research, it must be pointed out that slaughter animals, especially horses, are a special case. Slaughter horses have usually been trucked for extensive distances. Many times they are injured or unhealthy, housed poorly, fed and watered improperly, and sometimes held for long times, as much as a week, in dirty, confined pens at the slaughter plant. Carrying rate for Salmonella can become quite great under these circumstances. This becomes a fact with which the meat-processing firm must deal, and stress of slaughter animals, as pointed out by Meara (7), should be minimized.

#### **ACKNOWLEDGMENTS**

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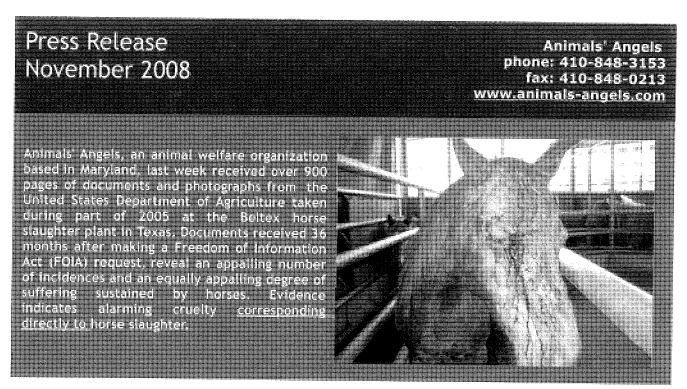
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1. DATE 2. RECORD NO.		3. ESTABLISHME	ENT NO.
04/13/2005 0619-2005-8243		15849 E/1	,
4. TO (Name and Title)		S. PERSONNEL N	(Critate)
	Y. )		Carion
6. RELEVANT REGULATION(S)	161		,
313.2 (a) &(b)		•	
7. SECTION/PAGE OF EST, PROCEDURE PLAN	HACCP	4800	
race internet or est, i rocations four	RALGE	\$50P	OTHER
			138
		NCE CLASSIFICATION INDIX	ZATORS
04C02 ]	PRODUCT - P	rotacal	·
equired the second downed horse to be immediate mock-box.  Loimels are required to be handled with a minimum.	um of exciteme	ot and discombate and im	miamouto anaplazza de a ana st
nimals shall be used as little as possible in order (b) respactively. A similar violation was noted after to comply with regulatory requirements co	to micomize ex on NR 18-2009	citement according to 9°C i. This document serves s	FR Ch.III, regulation 313.2(a)
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SIGNATURE OF INSPECTION PROGRAM EMPLOYEE			
SIGNATURE OF INSPECTION PROGRAM ENTLOYEE			

. Ovieting data any	The second of th	ound in this inspection system. It is used by FSIS to determine whether OVED OMB No. 0583-0089. OMB DISCLOSURE STATEMENT: Public interest per response, including the time for reviewing tristructions, searching eiting and reviewing the collection of information. Send comments regarding this suggestions for reducing this bunden, to Department of Agriculture, Clearance amention and Regulatory Affeirs, Office of Management and Budget.
FOOD SAL	YY, Wastangoot, DC 20220; and tonic Office of Info S Department of Agriculture PETY AND INSPECTION SERVICE NCOMPLIANCE RECORD	TYPE OF NONCOMPLIANCE
1. DATE	2. RECORD NO.	Food Safety X Other Consumer Protection  3. ESTABLISHMENT NO.
10/09/2006	0013-2006-8243	15849 E/1
4. TO (Name and Title)		
		5. PERSONNEL NOTIFIED
6. RELEVANT REGULAT	TON(S)	The state of the s
313.2		
7. SECTION/PAGE OF ES	T. PROCEDURE PLAN HACCP	1 gron
	THEOR	SSOP
8. ISP CODE	O MONOY O	Humane Handling
04C02		
10. DESCRIPTION OF NO	PRODUCT -	Protocol (b)(T)(c)
vehicle are to be limited with the downed horse downed horse. FSIS D carried out by establish the premises of the officient of the premises of the officient of the processing floor and processing flour further investigation.	at the render is considered to be part of an accordance with 9 CFR 313.2. It is at the front of the line to be off loaded if irective 6900.1 states that FSIs personn ment employees to ensure humane hand cial establishment until they are humane illed with a minimum of excitement, pain for supervisor, about the deficiency. The one supervisor, about the deficiency is the load of the supervisor.	tonce a vehicle carrying livestock enters an official slaughter of that establishment's premises. The animals within that ook regulatory control of the situation by placing the truck first in order to decrease the pain and suffering of the nel are to monitor disabled livestock handling procedures liing of disabled livestock from the time that livestock enterely slaughtered or disposed. Non-ambulatory disabled at, injury, or discomfort. I notified Raul Milan, slaughter the establishment instituted appropriate corrective action, the middle upper compartment, not just one horse as ment were trampling all over both of the downed horses
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11. SIGNATURE OF INSPEC	TION PROGRAM EMPLOYEE	
You are hereby dayised of your rio	ht to appeal this decision as delineated by 306.5 and/or	(b)(6), (b)(7)(c)
	RESPONSE (Immediate action(s)):	381.35 of 9 C.F.R.
to be taken sel	acting and londing hors fic buyer a letter was	sent restricting him to using only
13. PLANT MANAGEMENT R	ESPONSE (further pleaned action(s)): 0 th	
	Loss.	erwise he will be not allowed to be a buyer.
		· · · · · · · · · · · · · · · · · · ·
Più decoment server	447	
4. SIGNATURE OF PLANT M.	nucesion that your failure to comply with regulatory	y requirement(s) could result in additional regulatory or administrative action,  15. DATE
S VEDESCO -	-	10/10/06
6. VERHICATION	CHAM EMPLOYEE	(b)(0,(b)(7)(c) 17.DATE
IS FORM 19400 Form 5400-4 (9/97), wi	high may be used until exhausted (7/08)	DISTRIBUTION: Original & 1 Copy to Establishment, 1 Copy to Inspector

reporting burden for this colling data sources, gather burden estimate or any other Officer, OIRM, Room 4(4-1)/	aspect of this collection of a	information including	matter of the collection	act of mioritalicit. Sella	AANIENIENIE IERSENIUS .
	Transfer Co ZUZOU. M	nd tothe Office of Informat	restions for reducing this ion and Regulatory Affai	burden, to Department of	Agriculture, Clearand
US I FOOD SAFF	Department of Agriculture TY AND INSPECTION SE	7)170	TYPE OF N	ONCOMPLIANCE	axio endiler
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. SECTION PAGE OF EST.	PROCEDURE PLAN	HACCP	SSOP	OTH	IER
ISP CODE			·	Hum	nane Handling
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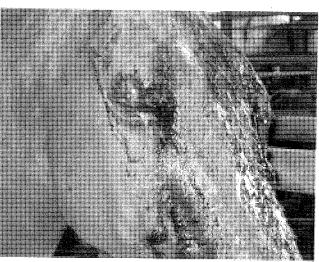


we are there with the animals



The large FOIA document contains hundreds of photographs that graphically depict horses with open fractures, legs missing, battered and bloody faces, eyeballs dangling and what appears to be horses left to bleed to death. The document provides unimpeachable evidence for the immediate ban on the slaughter of American horses.

The photographs included in the FOIA document were taken between January 17, 2005 and November 17, 2005 at Beltex, the Belgian owned plant in Fort Worth, Texas. Beltex was forced to close this plant in 2007, after courts upheld Texas law that has banned horse slaughter since 1949. Beltex has since focused on its operations in Fresnillo, Mexico where it



continues to slaughter American horses. In addition, Beltex still runs the second largest slaughter horse feedlot in the U.S. Horses from all over the country are tranported to the feedlot in Morton, TX before being sent to the Beltex slaughter plant in Mexico.

The FOIA request was submitted by Animals' Angels investigator Julie Caramante in November 2005 "I've been an equine cruelty investigator for a number of years," said Caramante, "and I've witnessed many horrific incidents of animal cruelty. But nothing could prepare me for the images contained in the FOIA. These pictures shocked me to the core. The pain and terror these horses endured is criminal. This just should not be, no excuses."

In commenting on the photographs, Sonja Meadows, Executive Director of Animals' Angels USA said:

"The pro-horse slaughter lobby continues to lobby for the domestic slaughter of horses, railing that transportation and slaughter of horses inside the United States is ever so much better, so much more humane than what happens in Mexico. These people say that U.S. humane laws protect the horses, that Mexico has no such laws. But this rhetoric is now exposed as nothing but disingenuous talk. The FOIA reveals unimaginable suffering was being perpetuated upon large numbers of horses on a long-term basis here in the U.S. We can only shudder at the scale of the suffering over the years. Animals' Angels will be investigating what actions were taken against those responsible for this horrific abuse."

Meadows is firm in her support of a Federal ban of horse slaughter. "From our own weekly investigations at auctions, feedlots and slaughter plants, the barbaric and inhumane treatment of horses goes on and will continue to do so until a Federal law is passed to end once and for all, the transportation and slaughter of horses for human consumption. The horse has played such an important part in the history of the United States and continues to be such an integral part in the lives of millions of its citizens. It is well overdue, past time for Congress to act and to pass a law to bring this miserable trade in horses for human consumption to an end."

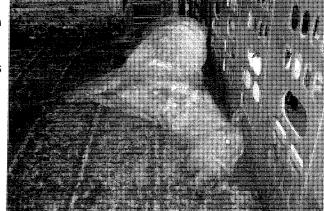
Animals' Angels continues to send out its investigators to expose the abuse and suffering of horses and to ensure that those responsible within this brutal industry are held accountable for their actions. "However difficult and traumatic these investigations are," said Meadows, "Animals' Angels will remain true to its motto - 'We are there with the animals'"

Further information, video and pictures....

### **Notes to Editors:**

1. In 2007, the slaughter of horses on US soil came to an end when a court ruling upheld a Texas law

banning horse slaughter, and similar legislation was passed in Illinois.



However, failure by the US Senate to pass the American Horse Slaughter Prevention Act into law has resulted in American horses still being slaughtered for human consumption abroad. Tens of thousands are shipped to Mexico and Canada annually, where they are killed under inhumane conditions so their meat can be sent to markets in Belgium, France, Italy and Japan.

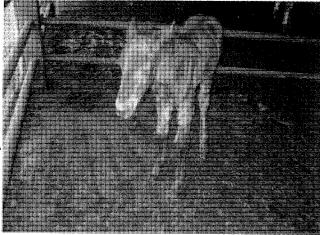
Additionally, without the federal law, there remains the threat of horse slaughter plants being established in states that have no laws against the practice. In the beginning of 2008, unsuccessful attempts were made to open a horse slaughter plant in South Dakota. It is likely that pro-horse slaughter organizations will try again elsewhere in the United States.

While a handful of horses are purposely sold into slaughter by irresponsible owners, most arrive at the slaughter plant via livestock auction, where unsuspecting owners sell the animals to slaughter

plant middlemen known as "killer buyers". Despite the fact that the US plants are no longer in operation, killer buyers continue to purchase and haul as many horses as possible from livestock auctions around the country to the slaughterhouses that have now relocated to Mexico and Canada.

On the 24th July 2008, the <u>Prevention of Equines Cruelty Act of 2008 (H.R. 6598)</u> was introduced to the 110th Congress by Rep. John Conyers and Representative Dan Burton. H.R. 6598 prohibits the slaughter of horses for human consumption in the United States and the export of slaughter horses to Canada and Mexico.

2. <u>Animals' Angels</u> is a 501 (c)(3) non profit organization incorporated in Maryland with fulltime investigators working in the United States and Canada. Our focus is on improving conditions for farm animals. We work primarily in the field, trailing livestock trucks on highways, visiting markets, collecting stations and slaughterhouses.



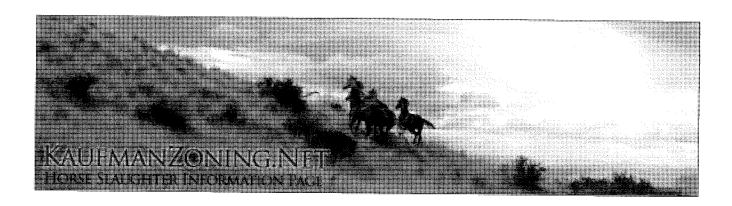
We seek to cooperate with auction managers, transport companies and other authorities, including the police, veterinarians and the United States Department of Agriculture.

#### Contact:

Sonja Meadows Executive Director Animals' Angels USA 410-848-3153 www.animals-angels.com

Further information, video and pictures can be found here:

TRANSPORT VIOLATIONS AT BELTEX WARNING - GRAPHIC CONTENT!



### Mary Nash's Horse Meat Website

Contact webmaster- adminkaufmanzoning.net@hotmail.com

Download Press Release Here - pressrelease.pdf

WARNING - DOCUMENTS AND VIDEOS SHOW EXTREME ANIMAL ABUSE

### FOIA - LARGE DOCUMENT WARNING Documents are Too Large for browser viewing!!

To Download, right click on link and select "Save Target As" or "Save Link As" to save.

- 06-108-Records-A.pdf (35mb)
- 06-108-Records-B.pdf (165mb)
- 06-108-Records-C.pdf (67mb)
- <u>06-108-Records-D.pdf (77mb)</u>
- 06-108-Records-E.pdf (50mb)
- <u>06-108-Records-F.pdf</u> (19mb)

### Videos - FOIA Images on Video

Windows WMV File (121 MB) - Right Click Download Only!!

Streaming Flash Video (20MB) - View In Browser or DL

The 906-page FOIA includes hundreds of separate photographs of severe and alarming cruelty at the plant during part of 2005.

### **FDA Case Reports and Court Documents**

- 060504 AQ 06-0003.pdf
- · 061406 AQ-06-0007 stanley default order pdf
- Baker081001 AQ 08-0074 dd.pdf
- BillRichardson061219 AQ 05-0012 Final.pdf
- BillRichardsonVol65 at 835.pdf
- BillyRowan080911 AQ 06-0006 do.pdf
- McBarron070510 AQ 06-0003.pdf
- Stanley080425 AQ 07-0023 do.pdf
- Vol62 at 253.pdf
- Vol65 at 1171.pdf
- Vol65 at 307.pdf

### Read About Those Responsible

Download Press Release Here - pressrelease.pdf

#### **Additional FOIA Records**

Dealers/Livestock Auctions Leroy Baker-Sugarcreek

Frank Bauer and Sons

G and B Horse Livestock

Varner Horse Company

Ricketts Horse Company

Central Texas Livestock

Licensed Dealers OH, PA, NY

New York Licensed Livestock Dealers

Cattlemen's Auction-Belen, NM

TX Vet Medical Center (A&M)

TDCJ Ag. Headquarters

TX Dept. of Criminal Justice

Landfair Brothers FOIA 487 Part 1

Landfair Brothers FOIA 482 Part 2

Landfair Brothers FOIA 486 Part 3

Landfair Brothers FOIA 486 Part 4

Slaughtered by Breed Type Jan 2002-Jan 2004

**Humane Slaughter Act Violations** 

Cavel

Bel-Tex

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