1 2 3 4	Interview conducted by Bill Smith; Recorded on Marantz Digital Recorder; Transcribed by Bill Smith; Electronic copy of Transcription edited by John White; name spelling corrections, only.
5	Track 74
6	
7 8	<b>Bill:</b> This is Bill Smith, I'm sitting with John White. We're working on the Flint Hills Ranching Impact Oral History Project. We're sitting in John's office at Farmer's and
9 10	Drover's Bank in Council Grove, Morris County, Kansas. Let's begin with the simplest tell me your name, what year, and where you were born.
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12 13	<b>John:</b> My name is John White. I was born on November 5 <sup>th</sup> , 1945, on Coronado Island, California.
14	
15 16	<b>Bill:</b> So you are not a born native of
17 18	<b>John:</b> Well, I would have, but for World War II. Dad was in the Navy and stationed on Coronado.
19	
20 21	Bill: How long has your family been in Morris County?
22 23	<b>John:</b> My great-great grandfather came in 1857.
24 25	Bill: Right at the beginning.
26 27 28	<b>John:</b> Fairly early. They started in Kentucky, then moved to Missouri, and in 1857 came to Morris County.
29 30	Bill: What was his name?
31 32	John: His name was Thomas White.
33 34	<b>Bill:</b> We've got Tom White, John White, Bill Smith – lot of complicated names.
35 36	John: Short names, yes.
37 38	<b>Bill:</b> Has the same ranch land been in the family all that time, or were they moving around?
39	
40	<b>John:</b> Part of it is left. The original homestead, most of it is covered by the Council
41	Grove Reservoir now. But there is about 80 acres that was higher grass land and that we
42	still have.
43	
44 45	<b>Bill:</b> Very good. What's your personal relationship? When did you come back and how long have you been

46	
47	<b>John:</b> I grew up in Council Grove, and I started full time in the bank when I finished
48	with college in 1970.
49	
50	Bill: Did you work on the ranch then, as a youngster?
51	
52	<b>John:</b> Yes, I did. And that started several years before.
53	
54	<b>Bill:</b> Right. Tell me about live on the ranch a little bit, as a youngster.
55	
56	John: I enjoyed it. I really did enjoy it. Riding horses, and being in the Flint Hills, is just
57	a lot of fun.
58	W 100 01 1WM
59	<b>Bill:</b> One of the things I've found fascinating about the Flint Hills is it seems that
60	practically every ranch, no matter how large or small has some farm land, and some
61	ranch land. Was that the case in yours?
62	Tallett faild. Was that the case in yours:
63	<b>John:</b> Yes. It was probably 50-50, at the first. Later, there was more grass land than ag
64	land. In the beginning, I think, obviously, the farmer had to live off his ranch, so he had
65	to plant some crops for feed for cattle in the winter.
66	
67	<b>Bill:</b> As you were growing up, what crops did you have?
68	
69	<b>John:</b> The general, just corn, a lot of corn, in the fifties, I remember some milo, and
70	alfalfa, brome hay and, of course, native prairie hay.
71	
72	<b>Bill:</b> Did you raise your own cattle or bring cattle in to feed, or both, as you recall?
73	
74	<b>John:</b> I think my great grand-dad started with a cow herd or maybe, great-great grand-
75	dad Hereford cows. By the time it reached me, we didn't have any cows; it was all
76	feeder cattle.
77	
78	<b>Bill:</b> Again, that is something that has interested me was that some have one, some have
79	the other, and some have both.
80	
81	<b>John:</b> The evolution.
82	
83	<b>Bill:</b> Yes, the evolution over time any particular memory of working with the cattle as
84	a youngster?
85	a youngster.
86	<b>John:</b> Oh I think my Shetland pony that could throw me off any time she wanted to!
87	[Laughter all around] She mastered full speed and a ninety degree turn and the saddle and
88	I both over the side.
89	1 oodi o oi die side.
90	Bill: Where did you go to college?
70	Din. Where did you go to conege:

91	
92	John: I went to undergraduate at K-State and graduate at Law School at KU.
93	
94	<b>Bill:</b> And then you came back over here, to the bank. Was your father in the bank?
95 96	<b>John:</b> Yes, Dad was in the bank. My great grand-dad started the bank.
97	John. 105, Bud was in the bunk. My grout grand dud started the bunk.
98	Bill: And it has certainly been part of the history of Morris County.
99	
100 101	<b>John:</b> It has been a lot of the history – started in 1882. He was the first President. He basically founded it. It was a local bank, and it has stayed that way, as a local bank.
102	
103 104	<b>Bill:</b> '82. Council Grove must have been an interesting town about that time?
105	<b>John:</b> It was just getting started. From the history I have read, the Santa Fe Trail reached
106	its peak in the 1850s, the late 1850s, then sort of dwindled down some, from there. My
107	great grand-dad started I've read and heard two things. One, the family story is, he
108	took commerce from Council Grove to Kansas City. He drove cattle or cattle needed to
109	be delivered. In the process of driving cattle, of course, he carried drafts or money or
110	commerce back and forth, too, and that emphasized the need for the bank; and that's
111	really how it got started.
112	
113	Bill: Needed a fixed location, that local folks could use.
114	· · · · · · · · · · · · · · · · · · ·
115	<b>John:</b> He also did, I think, some other cattle driving went to Western Kansas. And, I
116	read recently he drove wagon freighters on the Santa Fe Trail. He gave up on that
117	because of the Indians. [Laughter] I think this was before the treaty was signed or all
118	the treaties were signed.
119	
120	<b>Bill:</b> Even after the treaties were signed, I think there were some activities they didn't
121	like.
122	
123	John: Still didn't like.
124	
125	<b>Bill:</b> The basic thrust of our study is supposed to be how the Flint Hills are distinctive
126	with respect to other grazing or ranching lands. How has this affected the people and how
127	have the people on the land affected the Flint Hills? Do you have any particular thoughts
128	from your particular perspective, watching the growth over the years?
129	
130	<b>John:</b> I think when I look at it, we're really lucky that our forefathers preserved the Flint
131	Hills. And I think, obviously, to my knowledge, there was never a movement or any
132	activity to do it, it was just inherently important to them to live upon the land and take
133	care of it. I think they realized that if they didn't take care of the Flint Hills and treat them
134	properly they weren't going to have anything. Most of the homesteads did till a few acres

135 136	to provide food, food for the cattle and food for themselves. But, other than that, they lived off of the pasture of the Flint Hills.
137 138 139	Bill: And that has proven to be very productive.
140 141 142	<b>John:</b> And has proven to be productive and, at the same time, preserved the Flint Hills Bluestem is very forgiving up to a point, but you can't abuse it too much.
142 143 144	Bill: If you over graze, you have serious weed problems.
145 146	John: You have problems. That's right.
147 148 149	<b>Bill:</b> One of the interviews we talked about how you can drive down the road, and see certain plant life that has come about because of over grazing.
150 151	<b>John:</b> Well, it is amazing how a fence line can keep out trees and other invaders.
152 153	Bill: Very interesting. What changes have you seen over your lifetime in the Flint Hills?
154 155 156 157 158 159 160 161 162	<b>John:</b> I think the early intensive grazing is the biggest change. When I first started, all of the cattle were either cows or steers that were kept all summer; a five or six month season, during the summer on grass. In the mid-seventies, with the research and experimentation from K-State, Agronomy Department, I guess, Clenton Owensby, primarily, Dr. Owensby, was really a forerunner in determining that Bluestem, for grazing purposes, was going to produce the best, and would give the most gain, during the first three months of the season; up until July 15 <sup>th</sup> , anyway, in our area. But, the early intensive grazing, when it started, that changed a lot of things. It shortened the grazing season, down to the July 15th or the first of August, in some cases.
163 164 165	<b>Bill:</b> It is interesting that it has gotten that specific
166 167 168 169 170	<b>John:</b> Cattle got off the grass. We've got a lot more tall grass because of it. After that magic date of July 15 <sup>th</sup> , the grass needs to use all of its reserves to concentrate on growing leaves, not having them clipped off or grazed off. It needs to preserve the nourishment for next year's crop.
170 171 172	Bill: Did you study that at K-State?
173 174	<b>John:</b> No, I was before that. I've gone to a couple of his seminars in the 70s.
175 176	Bill: They really made a contribution, didn't they?
177 178	<b>John:</b> They really made a contribution. Now, there is the range management
179	Track 75

180	
181	<b>John:</b> outlook, and the biologist's outlook, and they are not necessarily the same. I
182	think they are the same the agree as to the productivity of the pastures, but whether or
183	not the early intensive grazing distorts the type of grass that continues to grow, survives,
184	the biologists don't necessary agree with that. By just grazing this first period of time,
185	you are allowing some species of grass to grow more and come back more, while others
186	are getting killed out. And there is probably some truth to that. It is sort of an invisible
187	change, though, probably, to the passerby.
188	change, mough, probably, to the passerby.
189	<b>Bill:</b> And it is probably hard to know unless they have test plots that are actually being
190	observed. That is what they do up at the Konza.
191	observed. That is what they do up at the Konza.
192	<b>John:</b> That is exactly right. And they do at the Konza.
193	John. That is exactly right. And they do at the Ronza.
194	Bill: I haven't been able to spend any time up there, but, like you said, I've heard a
195	couple of lectures of what's being done, and how it's being done it seems to me the
196	theories do change a little over time.
197	theories do change a fittle over time.
198	<b>John:</b> The time of the burning And, I think it is important that everybody look over the
199	long term, and try not to do stuff that causes permanent damage.
200	iong term, and try not to do start that eaches permanent damage.
201	<b>Bill:</b> Do you still find ranchers who resist some of these practices that are suggested as
202	being the best?
203	being the best.
204	<b>John:</b> There is always a difference of opinion. [Laughter]
205	gomes there is always a survivine of opinion [2008]
206	<b>Bill:</b> Don't name names, but, any particular philosophies in general?
207	
208	<b>John:</b> I think here, probably there is not too much resistance, but I think as far as grazing,
209	people recognize that to get the most dollars out, as a landowner, is going to come with
210	intensive grazing. But normally, any time there is major change, it takes time for the
211	majority of people to fall in line with it.
212	
213	Bill: I'm well aware of that thought process. How about the cow calf operations then, is
214	that pretty much taken care of by just rotating where they have pasture?
215	
216	<b>John:</b> I think so. Generally they have summer grass and winter grass. They'll have grass
217	for calving in the spring or in the fall, for fall calving cows. Some ranchers in Morris
218	County, and in Wabaunsee County, and I'm sure Chase County, will keep cows out on
219	the same grass twelve months out of the year, and get by with it.
220	
221	Bill: As long as they spread them out enough.
222	- · · · ·
223	<b>John:</b> That's correct. And recognize how much their cows eat. Genetics have really, to
224	me, made a change in the amount of grass that is consumed by a cow. Forty years ago,

people weaned five hundred pound calves, or four hundred fifty pound calves, were very happy; today, they want a six hundred fifty pound calf. So, it takes the calf itself eating more, and the cow itself is a bigger cow, and they consume more.

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**Bill:** So, it takes more land to raise the same number.

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**John:** It takes more acres. Or, you overgraze your pastures. We can't control the weather, so always on the dry years, that fall grazing makes fall pastures look pretty rough.

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**Bill:** You mentioned fall calving. I hadn't heard anybody mention that before. Is that a common practice?

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**John:** It's fairly common. The economics to me are, if a calf is born in October, November – that timeframe, it stays with the cow all year, then goes to grass next summer. You get an extra season of grazing.

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**Bill:** It is interesting that didn't come up before. I guess maybe I just didn't ask the question. In an earlier interview, we had some discussion about placement of ponds on the pasture in order to move the cattle in the right direction. Can you talk about that?

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**John:** Yes. Ponds and salt, mineral, are about the only control you have for grazing patterns. Cattle...

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#### Track 77

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**John:** ...tend to move into the wind. We have a predominantly south wind, so... Cattle want to go, if the wind is blowing normal, they tend to graze on the south end of a pasture. A narrow pasture, that's longer north and south, especially if the water is in the south, the cattle will literally grub off that south end of the pasture; they just camp there, stay there. Over the years, that kind of becomes permanent, for some reason. You can really tell when you go into a pasture; one end or it, or one area of it, is just clipped off much shorter than the other. I've also noticed, and I don't know whether this is really agreeable, or recognized; pastures with a lot of rock, I think cattle don't like, and stand on the flint rock, where you've got rough rock ledges, all over the pastures on each hill, those pastures don't seem to have the same carrying capacity. I think it, number one, just... there is not much soil on the flint hills there, so the grass probably doesn't grow as fast as it does on the bottom areas where there is soil above the flint rock. It is interesting studying pastures. I just wish I had more time. Different pastures definitely have different load carrying capacity. It all has to do with the shape of the pasture, the location of the water and mineral. You can put 25% more cattle on some pastures and get the same look out of it as you would get on other pastures that had less cattle.

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Bill: Interesting. Are you still involved with the actual ranching operations here?

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John: Yes.

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271	<b>Bill:</b> How much land do you have at this time?
272	·
273	John: Oh, we have a partnership that, a family partnership that runs most of it.
274	TOUR ED. LTD. ' . I I . I'
275	Bill: [Pause] I'm going to look at my list, to see if I've missed [more pause]
276	I guess I asked earlier, about your youth, but I haven't asked recently in the family
277	partnership, is it mostly cow-calf, or
278	T. L. T/2 C. 1
279	John: It's feeder cattle. All feeder cattle.
280	<b>D2II.</b> 162
281	<b>Bill:</b> It's primarily through those three months?
282	Johns Walson over your around Wa have them in the fell, and call them the next
283 284	<b>John:</b> We keep ours year around. We buy them in the fall, and sell them the next
285	summer.
286	Bill: You winter them as well.
287	Din. Tou whiter them as well.
288	<b>John:</b> You try to try put on the most pounds, not just in the three months.
289	<b>John.</b> Tou try to try put on the most pounds, not just in the three months.
290	<b>Bill:</b> Strategic decisions, as to what is going to be the most useful You then have
291	haying operations.
292	naying operations.
293	<b>John:</b> We have having operation; we also have some farm equipment.
294	John. We have haying operation, we also have some farm equipment.
295	<b>Bill:</b> To fill in, and use the ag land for farming?
296	2 mil 10 mil mil mol vil ug milu 101 miling.
297	<b>John:</b> Yes, for farming. We grow corn and beans and wheat, primarily some milo, too;
298	sorghum. We have a full mix. And we rotate, to try to get it to work the best.
299	
300	<b>Bill:</b> You haven't been in ranching operations outside the Flint Hills?
301	
302	<b>John:</b> No. Not really. Of course, when you get to western Kansas, it depends a lot on
303	where you are; that land changes dramatically.
304	
305	Bill: Weather patterns, rain I talked to John Vanier, over in Salina, and they have
306	operations over in the short grass, low rain, as well as operations out west of town, here. I
307	was able to get some interesting descriptions of the differences. [Pause] How have
308	ranching operations change over the time you've been involved?
309	
310	John: I think the biggest thing is the number of people. The equipment has gotten bigger,
311	requiring less people. I started out on a John Deere B and a two row cultivator; I think we
312	had four of them. So, there were four kids out there, taking two rows each.
313	
314	Track 78

315 316 **Bill:** Been there, done that. 317 318 **John:** Today, you've got a twelve row cultivator. Today, you don't have a cultivator, you 319 use chemicals! If you did, you'd be either six or twelve rows. Because, of course, the size 320 of the equipment has just gotten so much bigger. And, of course, that just doesn't really 321 fit the Flint Hills. For a two hundred horsepower tractor to go into a five acre field, you'd 322 just barely have room to turn around. And, there are a lot of small fields in the Flint 323 Hills... because is the area they found to farm. For farming, you are much better off if 324 you have two or three sections in a field. 325 326 Bill: You mentioned having wheat. Do you have tillable land large enough to put wheat 327 on? 328 329 **John:** We have rotating land where we put wheat; it is not large, but we work on proper 330 crop rotation... it works good for that. 331 332 **Bill:** Range burning, we haven't talked about that. 333 334 **John:** And I was going to mention that! Burning, you know, is also the other tool that can 335 control grazing patterns. Burning at a little different time, or later... not necessarily 336 burning every year. Although, to get the gain, the grass needs to be burned... from the 337 cattle owners perspective, it is best that the grass be burned every year. 338 339 **Bill:** So that you get a fresh start. 340 341 **John:** You get a fresh start, and, you have all fresh grass. And, there are studies that 342 show you gain about a quarter pound a day more. Over the grazing period, that makes 343 dollars. But, at the same time, there are years that you just do not want to burn, if there is 344 not going to be any grass. Clenton Owensby doesn't necessarily agree with this; he says, 345 if you're not going to have any grass, anyway, whether you burn it or not, it is going to be 346 so dry, it won't grow. That dead grass is just dead grass. 347 348 Bill: It ought to be burned off. 349 350 **John:** It is just dead grass. It ought to be burned off. The biggest thing, I think, is if you 351 take too much surface cover, the weeds can get a jump on the grass. If the pasture is 352 burned, and it stays black, and it gets cool, the weeds will go ahead and sprout and grow, 353 and the grass won't. 354 355 **Bill:** Then you've got a real problem. 356 357 **John:** Then you've got a lot more weeds. 358 359 **Bill:** What do you do in a case like that? Burn it again, wait until next year?

**John:** You can't burn it again. You just have to say you made a mistake and try next year. If you don't burn, the old dead grass keeps the soil covered, and helps control the weeds sprouting; you can't get light down to the seed for the weed to sprout.

**Bill:** Any exciting stories about range burning, or problems, or opportunities, that come to your mind?

**John:** It can be dangerous, you know. We've been lucky, and not had any problems. It does get exciting when the fire is getting away from you, though. But, over the last few years, the equipment has gotten a lot better.

Bill: And techniques, and lots of experience...

**John:** Experience, yes. There used to be some people who drove out on Sunday morning and threw matches, and went back home... and worried about it later on. But that doesn't happen today...rarely happens.

**Bill:** Part of proper land management. All the skills and techniques are there. [Pause] Any particular stories passed down through your family that stand out as unique experiences...

**John:** This is more banking than ranching...

**Bill:** That is ok!

**John:** The bank was robbed once, in the Bonnie and Clyde era. It sits right on the corner, and the vault was in the lobby at that time. My Grandfather was walking down the street, and looked in the window and looked in there and saw someone holding a gun. So, he knew, and assumed, that the bank was being robbed. So ran into the hardware store, across the street. The hardware person, and himself, grabbed shotguns off the...

#### Track 79

**John:** ...wall of the hardware store and ran out about the time the robbers were coming out of the bank. A gun battle ensued. Unfortunately, they grabbed bird shot rather than buckshot... but, they did wound the driver of the car. The gang car went south, and went around the block; they pushed the driver out of the car, as it was making the turn to go around the block. The gang got away and they finally caught them in Denver; but didn't recover any of the money. I don't know how much money... My dad, at the time, was in high school; he viewed the whole thing out the window of their high school classroom that was just a block from the bank.

**Bill:** That is certainly a memorable story. The kind they make movies out of.

405	John: Exactly. [Pause]
406 407 408	Bill: Any accidents? On the ranch? We forget how rough life was
409 410 411 412 413 414	<b>John:</b> Cattle are dangerous; horses, especially on pavement. Shod horses can really just dump somebody crossing the highway or something when they start to slid and slip. We've had a couple of people get hurt on a horse; get hurt pretty bad in a lot, trying to sort cattle on foot. Farming has improved, a lot; I think people have become more aware, over the years. From when I was younger, you'd see a lot more accidents.
415 416	Bill: More serious accidents.
417 418	<b>John:</b> It's more important to go slow and keep your whole body. It's risky business.
419 420 421	<b>Bill:</b> Flip that over: what are some of the most pleasant memories you have had from involvement on the farm, ranch, bank life in Morris County?
421 422 423 424 425	<b>John:</b> I just have a lot of good feelings. I enjoy the Flint Hills. I enjoy the solitude of the Flint Hills; just being able to get out, away, and enjoy the beauty: the fall beauty as well as the spring beauty. There are five clear seasons out there to look at and see.
426 427	Bill: Five?
427 428 429	John: I call burning a season.
430 431	Bill: Burning is a special season. OK. I like that.
432 433 434	<b>John:</b> Yes, because you see the black, and then here comes the green. The winter is ice and snow.
435 436	Bill: And we are enjoying that now! [Laughter]
437 438	<b>John:</b> Our ice storm was plenty this year. There will be plenty of pictures of that.
439 440 441	<b>Bill:</b> Really had it rough, this year; some more than others. In a hundred years, how do you want people to remember your ranch?
442 443	John: Well, I just would think that we were good operators.
444 445	Bill: And the thing would still be going
446 447	John: Yes, it would still be going about as it is now.
448 449	Bill: With whatever the latest technology

450 451 452	<b>John:</b> Lot of controversy on wind energy – and we are right in the middle of it. We've got half the people that are for itand half the people that are against it.
453 454	<b>Bill:</b> You have people that would really like to put the windmills up?
455 456 457 458	<b>John:</b> Yes, very strongly. Especially if they live north of town; there was a company, J.W. Windpower that really was taking leases. Florida Power and Light was in trying to take leases, also. They were looking at west of town; west and south.
459 460	Bill: What do you see as the how that is going to fall out?
461 462 463	<b>John:</b> Well, I think our present governor, Governor Sebelius, really has tried to preserve the center core of the Flint Hills.
464 465	Bill: The heart of the Flint Hills.
466 467	<b>John:</b> Whether that will continue in future years, when her term is up, we don't know.
468 469	Bill: There are windfarms being built further south.
470 471	<b>John:</b> Yes, right across I think her bottom line was highway 400, which is just north of Beaumont. There is a windfarm right below it – right there. [Laughter]
472 473 474	Bill: I'm sure that is it. It seemed like it was awful close.
475	Track 80
476 477 478 479 480 481	<b>Bill:</b> Since our organization is primarily interested in promoting the Flint Hills as a tourism destination, we certainly want to keep it that way. On the other hand, we are also very environmentally sensitive, so alternative energy and the idea of the wind farms is fine. It is just a matter of where you put it.
482 483	<b>John:</b> It is really tough to know which is right.
484 485 486 487	<b>Bill:</b> It is really hard to know. [Pause] Do you see any other ways that you expect Flint Hills ranching to evolve, over the next ten or twenty years? We just a talked about one of t hem, whether or not alternative energy sources come in; are there other things on the horizon?
488 489 490 491 492	<b>John:</b> I think the cellulosic ethanol may offer real possibility. Big Blue, ungrazed Big Blue gets six feet tall and has a fairly good sized stem. And whether or not that would ever be considered for ethanol production; and, what is the economic value of it was?
493	Bill: Right! And long does it take it to get there.

**John:** My thought would be: harvesting one crop of grass, could you get more dollars out of that, as using it to produce ethanol, as you could using it to graze cattle? And, I don't know. Bill: It's a real option to be looked at. **John:** And they are. Bill: Somebody will check it out. **John:** We'll find out, hopefully. **Bill:** It's part of the whole issue of the ethanol; is it really economically feasible, in the long run? **John:** And the same thing, then, at what time is it best to harvest it for ethanol? And I'd guess it is late in the season so you'd have the stems and the fiber as opposed to the green grass blades that you cut for hay, today. **Bill:** And how does that compare with leaving it through the winter and burning it. **John:** And what effect does that have on next year's? **Bill:** Delicate balance, interesting. John: Yes. **Bill:** Any other things that have come to your mind of that sort of thing? Obviously that one was right there. **John:** That was one. I had thought a lot about that. I don't know whether that will change our ... **Bill:** In recent years, the last two or three years, the ethanol thing has really... **John:** Sure has affected the price of grain! Commodities! Bill: Oh! My wife and I have talked often about how two dollar corn has been the norm for all of our lives. And now, all of a sudden, it is four, five, six dollars. Just over a very short period of time. [Pause] But, of course, we didn't have ethanol plants before... **John:** No, we didn't. Bill: Our home town now, we've had one for four or five years.

540 **John:** And it is going to affect the feeding industry because where the ethanol plants are, 541 the feed lots are going to gravitate in that direction. Because they've got to, to cut their 542 costs, to get that distiller's grain at a cheaper price without having to pay the 543 transportation cost. 544 545 **Bill:** Are they able to use the by-products? 546 547 **John:** Yes. There is distiller's grain, it comes in either wet distiller's grain which comes 548 straight out of the plant, I think... that is fed to cattle. They can't feed a hundred percent 549 distiller's grain, but I think they can feed thirty percent distiller's corn 550 551 **Bill:** That's one I hadn't really stopped to think about. 552 553 **John:** So, right now, that is a large part of the feed lots' ration is utilizing distiller's grain, 554 because it is a cheaper feed. We have customers here that utilize it. Also, they have dry 555 distiller's grain. The wet distiller's grain, especially in the summer, it has to be used 556 pretty quickly, or it begins to mold. In the winter it can be kept longer. It generally takes 557 a fairly good sized operation to justify the wet distiller's grain, in order to buy a semi load 558 of it, 50,000 pounds of it, and be able to feed it out in five or six days. 559 560 Bill: Big feed lot. 561 562 **John:** It takes a big feed lot. 563 564 The tape stopped there, at the end of Track 80. Track 81 was not readable; reason unknown. We were near the end of the interview, but, I believe a bit was lost. Very sorry 565 566 about that! Bill]