UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF INDIANA INDIANAPOLIS DIVISION

IN RE READY-MIXED CONCRETE ANTITRUST LITIGATION) 1:05-cv-979-SEB-JMS)
THIS DOCUMENT RELATES TO ALL ACTIONS)))

The videotape deposition upon oral examination of JOHN C. BEYER, Ph.D., VOLUME I, a witness produced and sworn before me, Patrice E. Morrison, RMR, CRR, Notary Public in and for the County of Marion, State of Indiana, taken on behalf of the Defendants at the offices of Cohen & Malad, LLP, One Indiana Square, Suite 1400, Indianapolis, Indiana, on March 27, 2008, at 9:21 a.m., pursuant to the Federal Rules of Civil Procedure.

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- 1 A From the author?
- 2 Q Uh-huh.
- 3 A It depends on the journal. Sometimes they are and
- 4 sometimes they are not.
- 5 Q Have you ever published in a journal any
- 6 peer-reviewed article?
- 7 A Yes. One is -- was in the -- both of these are
- 8 some time ago -- in the Journal of Economic
- 9 Development and Cultural Change, which is published
- out of Chicago, University of Chicago, and the
- other is the University of Yorkshire; it's a
- bulletin of economic studies.
- 13 Q How long ago were those?
- 14 A In the 1960s or early 1970s, I don't recall without
- 15 going to my resume.
- 16 Q Are those set forth in the attachment to your
- 17 affidavit in this case?
- 18 A They probably are, but I don't know for a fact
- 19 whether they are.
- 20 O Now, you're not an expert in econometrics, are you?
- 21 A I would not put forward myself as an expert in
- econometrics, but as an applied micro-economist, I
- 23 use econometrics frequently, as do most
- 24 micro-economists who are doing empirical work. And
- therefore, it is part of what I would consider the

- 1 A You must have been an union employee.
- Q Indeed. International Brotherhood of Hod Carriersand Laborers.
- 4 A See, you were lucky. I couldn't get a card.
 - MR. SHEVITZ: I can't let the occasion pass,
- 6 Dan, without telling you that I, too, at least --
- 7 it's questionable whether I'm still a member, but
- 8 I, too, was a member of that very same --
- 9 MR. BURNS: Is there a secret handshake?
 - MR. KELLEY: No. But I'll tell you what you
- 11 got, you got your medical. Because back then,
- about 18, you no longer had medical, no matter what
- 13 your parents did. Right?

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- MR. SHEVITZ: Made a difference.
 - MR. KELLEY: Excuse us for going this way.
- 16 MS. STEINER: Well, I'm just wondering if
- you're going to get along now better that you know
- you're in the same brotherhood here, so...
- MR. KELLEY: I wasn't aware that we didn't get along.
- MS. STEINER: No, no, no.
- THE WITNESS: These two.
 - MR. KELLEY: Oh, us. We get along fabulously.

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- MR. SHEVITZ: We get along fine, but I decline
- 25 to be associated in any brotherhood with

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- arsenal analysis that many economists today use.
- 2 Q So you are not an expert in econometrics; is that
- 3 correct? Yes or no?
- 4 A As a court determines an expert, I would not
- 5 proffer myself as an expert. But I would hasten to
- 6 add, I use it all the time as a tool of analysis in
- 7 applied economics.
- 8 Q Other than this case, have you had any experience
- 9 in ready-mix concrete?
- 10 A Yes.

- 11 Q When was that, sir?
- 12 A In one -- during one of the summers when I was in
- college, which I would like to forget.
- 14 Q Were you a hod carrier?
- 15 A No. I pulled concrete. And let me tell you, that
- is a hard job.
- 17 Q I carried hod.
- 18 A Good for you. How much did it weigh?
- 19 Q It depended on the nature of the mortar and whether
- 20 it was going for block, brick, or otherwise.
- 21 A And we both got paid probably the same slave wages;
- 22 right?
- 23 Q I didn't consider it that.
- 24 A I got paid slave wages.
- 25 Q I didn't consider it that at all. Anyway...

- 1 Mr. Kelley.
 - MS. STEINER: For the record.
- 3 MR. KELLEY: All right.
- 4 Q So other than our rudimentary involvement with
- 5 ready-mix, neither you nor I have had any
- 6 involvement with ready-mix before this case; right?
- 7 A Well, that's not quite the case for me.
- 8 O Okav.
- 9 A I don't know about you.
- 10 Q Yes.
- 11 A One of the important, or the most important raw
- material in a ready-mixed concrete is cement, and I
- have looked at the cement industry, studied it, not
- only in the United States but a number of other
- 15 countries around the world.
- 16 Q And in regard -- when have you looked at the cement
- 17 industry?
- 18 A Last year or two.
- 19 Q For whom?
- 20 A For several different entities, one being a group
- of Mexican users of cement, because they were
- 22 concerned -- direct purchasers of cement, concerned
- 23 that Cemex -- whether there was a concern there or
- not, I don't know, but that Cemex was in a monopoly
- position in Mexico, and wanted to see if there was

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- 1 the objection out. Object as to form,
- 2 mischaracterizes his testimony, mischaracterizes
- 3 the report which has citations to lots of other
- 4 sources of information.
- 5 MR. KELLEY: Concerning the conspiracy?6 Go ahead.
- 7 A As I said earlier, my understanding of the alleged
- 8 conspiracy or cartel is informed -- was informed by
- 9 the complaint and by the 302s, the FBI
- 10 investigations, interview notes.
- 11 Q My understanding of your previous testimony was
- that you used the 302s only for the purpose of
- informing yourself as to the industry. I
- 14 understand from your last answer that is now not
- 15 correct.
- 16 A No, that's not. I -- in reading the interview
- 17 notes for the purpose of understanding the
- 18 industry, there were also statements about this
- 19 alleged conspiracy.
- 20 Q Yes.
- 21 A And I did not close my eyes when I came to those
- 22 words. I read them.
- 23 Q Yes.
- 24 A And what the FBI agents included in there, often in
- 25 the same paragraph that they're talking about the

- 1 existed, as given. That is a framework for my
- 2 analysis.
- 3 Q As it existed, as given, based on what facts, sir?
- 4 A Based primarily on the amended complaint.
- 5 Q And the word "primarily" suggests that it was not
- 6 exclusive, so what else other than the complaint?
- 7 A As the 302 notes were made available to me, and as
- 8 I reviewed them for purposes of understanding the
- 9 industry, I learned about dimensions of the cartel
- that the FBI agents asked the various interviewees.
- 11 And therefore, my knowledge, the background, was
- 12 expanded.
- 13 Q And you relied upon that knowledge for the purposes
- 14 of your report.
- 15 A No, I could reach the same and did reach the
- conclusions I reached without the FBI notes with
- 17 respect to the cartel.
- 18 Q But you didn't because you had it in your brain.
- 19 You couldn't wipe it out; right?
- 20 A I did not close my eyes.
- 21 Q So you didn't wipe it out.
- 22 A I haven't figured out how to do that yet.
- 23 Q Okay. So you've answered my question, that you
- didn't wipe it out.
- 25 A I did not.

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- 1 economic characteristics of the industry and the
- 2 product, is about the alleged cartel.
- 3 Q Okay. And you relied upon whatever you read in the
- 4 302s concerning the conspiracy in coming to your
- 5 understanding of the conspiracy for purposes of
- 6 your report. Is that correct?
- 7 A Let me state it as I said earlier in response to an
- 8 almost identical question. I take the cartel as
- 9 given. I assume that it existed. I have no choice
- 10 at this stage. I'm not doing an independent
- investigation of the reality of the cartel, who
- participated, when it occurred, and what forms it
- took. But I am informed about the allegations,
- 14 first, by the amended complaint; and second, which
- in this case just happens to occur as I'm informing
- myself about the economic characteristics of the
- industry, in the interview notes of the 302s that I
- 18 read.
- 19 Q So did you assume the facts concerning the
- 20 conspiracy set forth in the 302s for the purposes
- of forming your opinion in this case?
- 22 A I don't think one needs to.
- 23 Q No, that wasn't my question. I asked if you did.
- 24 A I don't recall making a conscious decision that
- 25 that was the case. I took the cartel as it

- 1 Q Was there anything that you read in the 302s that
- 2 you disregarded about the cartel?
- 3 A That I disregarded about the cartel?
- 4 O Uh-huh.
- 5 A I can't recall of any specific fact one way or the
- 6 other. But I can't recall any that I explicitly
- 7 said I'm not going to take this into account, or
- 8 I'm going to somehow disregard the reporting of
- 9 this.
- 10 Q Have you assumed that the conspiracy was
- 11 implemented?
- 12 A I assumed what is in the complaint for purposes of
- my analysis in the report that was submitted in
- 14 July of 2007.
- 15 Q Did you or did you not assume that the conspiracy
- was implemented? Yes or no?
- 17 A I didn't assume that it was, other than what is in
- the complaint.
- 19 Q And what's in the complaint about whether the
- 20 conspiracy was implemented, please, sir? Look at
- 21 Exhibit --
- 22 A Well, the language is that there was a conspiracy.
- 23 It's stated as it is a fact.
- 24 Q Yes.
- 25 A Whether it had an effect, if that's what you're

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- 1 getting at --
- 2 Q No. The question is, did you or did you not assume
- 3 that the conspiracy was implemented.
- A I don't understand that question. As an economist.
- 5 I understand the plain words, but I don't, as an
- 6 economist, understand that.
- 7 Q Well, you understand that some of the defendants
- 8 are alleged to have attended meetings at which it
- 9 is alleged in the complaint that they agreed to fix
- 10
- 11 A I'm aware of that, yes.
- 12 Q And my question is, after they left the meeting,
- 13 what did you assume with respect to when they went
- 14 back to their own shops as to whether they
- 15 implemented that conspiracy?
- 16 A Nothing, either way.
- 17 Q You assumed nothing either way.
- 18 A No. The comp---
- 19 Q So we now understand what we mean by --
- 20 A May I -- could I --
- 21 Q Excuse me. We now understand what we mean by
- 22 implemented?
- 23 MR. SHEVITZ: Dan.
- 24 Q Right?

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25 MR. SHEVITZ: First let him answer.

- 1 conspiracy said that he had withdrawn from the
- 2 conspiracy?
- 3 A In some other venue or some other means? No. I
- 4 took the complaint as it is -- as it is
- 5 articulated, that there are certain firms that
- 6 are -- that participated in the alleged cartel.
- 7 Q Were you influenced by Mr. Hughey's statements, or
- 8 statement, in his 302 that he informed some of the
- 9 persons who had been at the meetings that he was no
- 10 longer going to participate in the conspiracy
- 11 because everybody was cheating?
- 12 MR. SHEVITZ: Object to form.
- 13 A I don't recall reading explicitly that component of
- 14 Mr. Hughey's interview notes or interview. I may
- 15 have, but I don't recall reading it.
- 16 Q So you can't recall whether or not you were or were
- 17 not influenced by reading that.
- 18 A Well, I can clearly say I was not influenced since
- 19 I'm having trouble even remembering whether or not
- 20
- 21 Q I see. That's an interesting answer. Excuse me.
- 22 Do you remember what you remembered in June of
- 23 2007 when you --
- 24 A As we say in my part of the world, a lot of water
- 25 has flown under the bridge since --

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- MR. KELLEY: I just want to make sure he
- 2 understands my question.
- 3 MR. SHEVITZ: No. You're interrupting his
- 4 answer.
- 5 MR. KELLEY: Excuse me. I just want to make
- 6 sure he understood it.
- 7 A The only -- the stage --
- 8 You want to win a debating contest? Be my
- 9
- Q No, I just want to make sure you understand what
- 11 you said you didn't understand.
- 12 A The effectiveness of the cartel, which has to do
- 13 whether or not the members of the alleged cartel
- 14 did do something that they agreed to --
- 15 Q Agreed to do.
- 16 A -- can only -- agreed to do.
- 17 Q Okay.
- 18 A -- will only come about when there is an estimation
- 19 of damages and the demonstration of whether or not
- 20 there is impact from this cartel on the prices that
- 21 purchasers paid. And that is -- my understanding
- 22 is, that will be at a subsequent stage of the
- 23 litigation, if there is a subsequent stage of
- 24 litigation.
- 25 Q Did you consider whether or not any member of the

- 1 Q I think I understand your answer.
- A -- since July of 2007.
- Q When you wrote your report.
- A When it was finally signed and submitted, yes.
- 5 Q Well, then, when was it you were writing your
- 6 report?
- A In the months before that.
- 8 Q And do you remember what you remembered when you
- 9 were writing your report?
- 10 A Some of it, yes; some of it, no.
- 11 Q So you really can't tell me what you remembered
- 12 about the 307s that informed you while you were --
- 13 strike 307s -- 302s while you were writing your
- 14
- 15 MR. SHEVITZ: Seems we all have memory
- 16 problems. 302, 307.
- 17 A Purely from memory, no. If I were looking at my
- 18 report, I could. Because there are specific
- 19 citations to specific parts of, at times, very
- 20 lengthy interview notes.
- 21 Q At the time, though, did you remember anything
- 22 about what you had read in the 302s that you didn't
- 23 put in your report?
- 24 MR. SHEVITZ: Object to form.
- 25 A There were parts of the 302s that I read that

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- A Not that I have attempted, that it has been made
- 2 available. I attempted to collect it beforehand.
- 3 Q And are you assuming that that is the entirety of
- 4 the production and sales of ready-mixed concrete in
- 5 the ten-county area?
- 6 A The sales by the defendants in the ten-county area
- 7 does not represent 100 percent of the sales, but
- 8 close to it.
- 9 Q And on what do you add the word, or words, quote, 10 close to it, end quote, based on?
- 11 MR. SHEVITZ: Object to form but I think we 12
- 13 A What are those of and ins called? There's a word 14 for that.
- 15 Q I'm asking you about the things you don't know
- 16 about that you think you know about and, ergo, say
- 17 close to it now, so what's close to it all about?
- 18 MR. SHEVITZ: Now I object to form and mean
- 19 it.
- 20 MR. KELLEY: Thought I'd give you something.
- 21 MR. SHEVITZ: And I object to Latin.
- 22 A From my review of ready-mixed concrete plants that
- 23 are near but not in the central Indiana area, there
- 24 are relatively few of them, and many of them are
- 25 owned by the defendants here, so that is the basis

- 1 them from which you concluded all of those things. 2 Is that it?
- 3 A I don't understand your question. You like to -you like to be very flamboyant, but why don't you 4 5 make it in simple English that a good country boy 6 like me can understand.
 - MR. KELLEY: I move to strike your statement as unresponsive to anything, much less reality.
- 9 Q Now, you have indicated from the absence of
- 10 knowledge, you concluded certain things, and I'm
- wondering how, from the absence of knowledge, you 11
- 12 can make a conclusion. Would you like for me to 13
 - read your prior answer as to how I got that?
- 14 A If there is a supplier in the central Indiana area
- 15 that is other than a fringe producer, and of any
- 16 significance, then I would learn about it either
- 17 through the publicly available knowledge or through
- 18 the Internet, because firms who are in business
- 19 want to take advantage of their presence to attract
- 20 customers.

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- 21 Q Is the term "fringe producer," is that a term of
- 22 art in economics?
- 23 A It is used by economists in the field of industrial
- 24 organization.
- 25 O I see.

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- 1 for my statement.
- 2 Q And how did you become informed as to the
- 3 ready-mixed plants within the ten-county area that
- 4 the defendants do not own?
- 5 A Not within, without it. Outside but not in.
- 6 Q So it's your understanding that there were no
 - non-defendant-owned ready-mix plants within the
- 8 ten-county area during the alleged conspiracy
- 9 period.

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- A I didn't say that.
- Q So you agree there are, or were?
- 12 A There may have been.
- 13 Q There may have been. You don't know about them,
- 14 though. Is that it?
- 15 A Well, I attempted to find out, but it's very hard.
- Q But you don't know of any as you sit here today. 16
- 17 A You have one set of materials that identifies,
- 18 prospectively, two or three firms, but our
- 19 inability to gain any information from them is an
- 20 indication that they were small or in existence for
- 21 a very short time; and therefore were in the
- 22 totality of this marketplace an insignificant part
- 23 of the market, generally fringe players.
- 24 Q And you got all of those conclusions from your
- 25 inability to gain anything or know anything about

- (A discussion was held off the record.)
- 2 Q Is there a publisher of construction data in the 3 Midwest?
- 4 A Well, the Midwest, there is a publisher -- there
- 5 are several publishers of firms who are engaged in
- 6 the construction industry, and it depends on their 7 locality.
- 8 Dodge Report is one for the -- really is
- 9 national in scope, although it reports industries
- 10 of various firms of various kinds on a more local
- 11 geographic basis. There are several other industry
- 12 reports available, most of them national, I just 13 don't recall the name, but most of them are
- 14 national in scope, but they report industries by
 - states or by local geography because most
- 16 construction firms that are involved in
- 17 construction tend to be more local in character.
- 18 Q What was -- what was the one you mentioned?
- 19 A Dodge.

- 20 Q Who publishes that?
- 21 A I don't know who owns the Dodge Report.
- Q Is that something you can find online?
- 23 A You can find it online, too.
- 24 Q Did you find it online?
- 25 A Yes.

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- 1 not the construction industry but of construction,
- 2 changes that occur over time, both residential and
- 3 commercial, which is -- and I did not find in
- 4 that -- those indices any substantial difference,
- 5 either up or down, from what had been reported in
- 6 either the Ready-Mix Concrete Association of
- 7 Indiana's Indiana-wide ready-mixed concrete
- 8 production, or in the broader measure of GDP in
- 9 construction for Indiana.
- 10 Q Ready Mix Concrete Association numbers that you
- 11 just referred to, are they cited in your report?
- A There's a table in the report, yes. I'm not sure 12
- of the source. I assume -- if I could look at the 13
- 14 report, I can quickly tell you that source.
- 15 Q I'll show you what's been marked as Exhibit 164,
- 16 and ask you if that's your report.
- 17 A It is.
- 18 (Exhibit 164 was marked for identification.)
- 19 A It's Table 2 in the appendix -- it's referred to in
- 20 the text as well, but it shows the source of this
- 21 is the National Ready Mix Concrete Association,
- 22 which is shown in the table.
- 23 Q For the whole state of Indiana, if I understand it?
- 24 A Yes.

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25 Q The Bureau of Census data for the nine counties

- 1 Q According to your investigation, what are the 2
 - variable cost components insofar as manufacturing
- 3 ready-mixed cement?
- 4 MR. SHEVITZ: You mean concrete.
- 5 O Excuse me, ready-mixed concrete.
- 6 A It's good that we get the right product.
- 7 Q It's difficult for a poor old man like me.
- A I understand that completely. I can identify that.
- 9
- 10 A The largest variable cost is cement. The next
- 11 largest variable cost is aggregates, which is a
- 12 combination of sand, different size gravel and
- 13 stone. And usually the next component will be
- 14 labor, that may or may not be a variable cost.
- 15 Some of the labor is fixed, or what economists
- 16 would consider a fixed cost. Energy tends to be an
- 17 important cost, variable cost. And then after
- 18 that, the variable costs become numerous but very
- 19 small in their proportion.
- 20 Q And did you make any attempt to determine the labor
- and energy costs as you did cement and aggregates? 21
- 22 A There are indices available; I didn't report on
- 23 them, but if there is an estimation of damages,
- 24 most likely labor and energy will be incorporated
- 25 along with these two inputs into a variable cost

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- that you say you referred to, is that cited
- 2 anywhere in this report?
- 3 A No, I don't think so. It's more than nine
- 4 counties. The statistical -- the standard
- 5 metropolitan statistical area of Indianapolis is 11
- 6 or 12 counties.
- 7 Q In a Bureau of Census report of some sort; is that
- 8 right?
- 9 A The Bureau of the Census reports a lot of
- 10 information online, and there are various sources.
- 11 categories, and --
- O Which one did you look at? 12
- 13 A The information that's related to SMSAs, standard
- 14 metropolitan statistical areas.
- Q And what report, with respect to that area, was it 15
- 16 that -- or group of statistics was it that you were
- 17 relying on?
- 18 A It was a measure of construction activity in the
- 19 SMSA as a whole over a period of time.
- 20 Q What period of time was this with respect to, sir?
- 21 A SMSA?
- Q Yes. That you looked at.
- A That I -- actually there's quite a history
- 24 available for a number of the indices on the SMSA,
- 25 but I was focusing mainly from 1999 through 2005.

1 index measured over time. Whether national indices

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- 2 are used or if we are able to obtain a more
- 3 complete set of information, the financial
- 4 statements of the defendant suppliers, that will be
- 5 determined subsequently. But the data are
- 6 available.
- 7 Q In any event, the variable cost information set
- 8 forth in your report, if I understand your
- 9 testimony, has nothing to do with respect to the
- issue of whether there is common proof of any 10
- 11

- 12 A True. It has to do with the feasibility of
- estimating damages. 13
- 14 Q Did you conduct an investigation concerning what
 - was, or what were geographic markets for
- 16 ready-mixed concrete in the ten-county area?
- A On a preliminary basis, but I did not define a 17
- 18 relevant geographic market since whether it's 19
- necessary in this particular instance will be 20 determined by the court of law, and will in any
- 21 event be done at a later stage of this litigation,
- 22 assuming that there is a later stage.
- 23 O So it's your testimony that any determination as to
- 24 geographic markets in the ten-county area is not
- 25 relevant to the question of whether there's proof,

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common proof of any impact with respect to any 1 2 class member.

A Defining a relevant geographic market is different from looking at the transportation of ready-mixed concrete and the effectiveness of suppliers in price competition with one another, which I do discuss at some length in my report.

Q I'll ask you again. I have no understanding of what you just said with respect to my question.

Is it your testimony that any determination as to geographic markets in the ten-county area is not relevant to the question of whether there's proof, common proof of any impact with respect to any class member?

15 A Let me try answering in a slightly different way. 16 Defining a relevant geographic market is not, in my

17 judgment, a precondition to identifying a common

18 proof of impact. However, the economics of 19 transportation of this product do define the

20

elements of competition of suppliers, and that was 21 addressed in considerable detail in my report.

22 Q So is your statement, "defining a relevant

23 geographic market is not, in my judgment, a

24 precondition to identifying a common proof of

25 impact," the equivalent of saying it's not relevant defendant suppliers collectively have market power and whether purchasers of ready-mixed concrete in the central Indiana area could avoid any -- an artificial increase in ready-mixed concrete, assuming a cartel existed, the availability of substitutes becomes an important question.

If there are substitutes readily available, then that would question whether -- would raise a question as to whether or not these defendant suppliers collectively do have market power. So in that sense, one is getting to a definition of a ready -- of a relevant product market by asking the question, are there substitutes.

14 Q So you made no study concerning -- strike that.

You made no study in order to establish whether there were one or more product markets concerning ready-mixed concrete in the ten-county area; correct?

A As I understand your question, I did, because I examined potential substitutes of ready-mixed concrete and came to a conclusion, as I report in my affidavit, that there are no substitutes.

If by your question you mean are there particular components of ready-mixed concrete that constitute separate, relevant antitrust markets,

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to that inquiry? A Yes.

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2 3 MR. KELLEY: Thank God for technology; we 4 might have never communicated.

5 MR. BURNS: Dan, you need a bigger screen.

6 MR. KELLEY: I do.

MR. BURNS: I'm worried about you.

8 MR. KELLEY: And glasses. I have a hard time 9 looking at the lines on the screen, it's horrible.

10 You'd think my partners would buy me a bigger 11 screen, wouldn't you?

12 MR. BURNS: I would.

MR. MIXDORF: We heard you're retiring.

14 MR. BURNS: It's wishful thinking.

15 MR. SHEVITZ: Of course, the downside of 16 technology is you spend a lot of your deposition 17 reviewing the computer screen instead of asking 18 questions.

19 Q Is it your testimony that -- excuse me.

20 Is it your testimony that defining the role of 21 the product markets is not necessary to the question of whether there is common proof of any

22

23 impact to any class member?

24 A It is -- it is relevant only in the sense that in

25 the context of looking at whether or not the that's a different question, and I did not

investigate that.

3 Q "Particular components of ready-mixed concrete," 4

what are you referring to?

5 A Hypothetically, is 3000 psi a distinct, relevant 6 product market compared to 4000 psi. For

7 example --

8 Q Well, let me just ask you a question right now

about that. Is it your opinion that 3000 psi

10 ready-mixed concrete is a substitute for 4000 psi

11 ready-mixed concrete?

12 A Of course not. Once it is made, they cannot be

13 substitutes, except in rare circumstances.

14 Q I'm not talking about once it's made. Once it's 15

made, it better get where it's going. It ain't 16 substituted for nothing; right?

17 A Well, then be clear in your questions.

18 Q Yes.

20

19 MR. SHEVITZ: I think it's your turn, Dan.

MR. KELLEY: Yes, indeed.

Q Is it your understanding that --

22 A I want to make sure I can see you.

23 O -- in the sense of the word "substitute," as

24 economists use it, is it your understanding that

25 3000 psi is a substitute product for 4000 psi? Page 90 Page 92

- idea you always went back and watched baseball.
- 2 A Any sport.
- 3 Q Oh, any sport, okay. I stand corrected. Excuse
- 4 me.

7

- 5 A Even the Indiana Colts.
- 6 Q You got that wrong, too.
 - MR. JONES: Indianapolis.
- 8 THE WITNESS: Oh, Indianapolis? Okay.
- 9 Q Just kind of like Boone County and Hamilton, but10 that's all right. Anyway...
- Going back to your last answer about two
- versus three competitors not always resulting in a
- lower price, the necessary predicate for your
- answer was the assumption or the potential for
- there being a homogeneous product; correct?
- 16 A An undifferentiated product, which may or may not
- 17 be homo- --
- 18 Q An undifferentiated product.
- 19 A It may or may not be homogeneous, but it is
- 20 perceived by both suppliers and purchasers as being
- 21 interchangeable among suppliers.
- 22 Q But assuming it's not homogeneous, your answer
- would be different.
- 24 A Undifferentiated, to me, does not require that the
- 25 products be exactly the same, which is homogeneous,

- 1 the two versus -- or the three versus two
 - competitors would most likely result in a lower
- 3 price -- correct? -- all other things being equal.
- 4 A It may or may not, because a differentiated product
- 5 may have competition on issues other than price.
- 6 Q All right. Did you do any analysis of the
 - transactions in order to determine whether there
- 8 were product markets in the ten-county area?
- 9 A Relevant product markets? Clarification. Because
- 10 I don't know what you're talking about if it's not.
- 11 Q If it's not, quote, relevant product markets?
- 12 A Yeah.

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- 13 Q Well, let's start thataway.
- 14 A I think I answered that earlier. Other than
- looking at whether there are substitutes to which
- purchasers of ready-mixed concrete can turn, as a
- way of avoiding artificially elevated prices
- assuming that the cartel existed, I did not define
- 19 a relevant product market.
- 20 Q So you did no analysis of the transaction data --
- 21 A No, that's not correct. I did do analysis of the
- transaction data but not for that purpose.
- 23 Q Well, I hadn't finished my question.
- 24 A Oh, I'm sorry. I'm sorry.
- 25 Q You did no analysis of transaction data with

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- respect to the question of product markets.
- product from any number of 2 A I did not look at all relevant product markets

1

- 3 other than the availability of substitutes.
- 4 Q So you did no statistical analysis with respect to
- 5 the question of whether there are product markets,
- 6 relevant or otherwise. Is that correct?
- 7 A I don't know what you mean by product markets
- 8 otherwise. Maybe you could be a little bit more
- 9 specific.
- 10 Q Did you do any statistical analysis to determine
- the existence of product markets in the ten-county
- 12 area?
- 13 A To me, as an economist, the only -- other than what
- 14 the complaint says, and which I accepted as true,
- there is a ten-county area called the central
- 16 Indiana area in which this cartel took place, that
- if there is a need to define markets, it is only in
- 18 the antitrust sense that there is a relevant
- 19 product and geographic market, and we've already
- discussed that. You've asked me a number of
- 21 questions and I provided my answers to it.
- 22 Q Did you do any statistical analysis to determine
- 23 the existence of product markets in the ten-county
- area, yes or no?
- 25 A As long as the answer is understood in the context

- but that they be interchangeable; that a purchaser
- 2 can buy a given product from any number of
- suppliers and be indifferent as to which supplier
- 4 does provide the product.
- 5 Q So I have to use the word undifferentiated --
- 6 correct? -- and then your answer would be
- 7 different.

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- 8 A I don't -- I'm not sure --
- 9 MR. SHEVITZ: Why don't you ask the question.
- 10 Q Assuming that these products are differentiated
- 11 products --
- 12 A Undifferentiated.
- 13 Q I'm saying let's assume that, with respect to the
- 14 two versus three competitors, the product we're
- talking about is a differentiated product, not anundifferentiated product.
- MR. SHEVITZ: And just so I'm clear for the
- purpose of this hypothetical, have youhypothetically -- have you identified the
- 20 hypothetical product or is that --
- MR. KELLEY: No, we haven't.
 MR. SHEVITZ: That's fine.
- MR. SHEVITZ: That's fine.
 MR. KELLEY: I'll do it.
- 24 Q We're going to assume for this purpose that it's a
- differentiated product, and if that were the case,

Page 106 Page 108 1 1 Spurlino during the class period came in and customers. 2 did a project with a portable plant, did it not? 2 Q So --3 A Yes, it did. 3 A So --Q So it had gone one step further than Shelby had and 4 4 Q Excuse me. 5 actually used a portable plant. 5 A -- it would only be in those cases where Spurlino, 6 A During the class period, yes, in the central 6 like Shelby, considered an intensive use of 7 Indiana area. 7 ready-mixed concrete that a portable facility would 8 8 Q And immediately after the class period, as a matter be available. 9 of fact, bidding as the class period was closing, 9 Q So --10 Spurlino bid on the new stadium. Are you aware of 10 A And only in those cases would Spurlino compete. 11 that? 11 Q So it would depend on the nature of the end user 12 MR. SHEVITZ: Object to form. Lack of 12 project, so to speak. 13 foundation. 13 A Like Shelby and Central Soya with the grain 14 A I'm not. 14 elevator, and Spurlino to bid on part of the 15 Q And are you aware that they bid for some of the 15 ready-mixed concrete requirements of the new dome. work on the new stadium based on using a portable Q So your answer to my question is yes, it would 16 16 17 17 depend on the nature of the end use. plant? 18 MR. SHEVITZ: Same objection. 18 A Only for the large end use, yes. 19 Q So your -- thank you. So you'd consider large end 19 A They'd have to have a portable plant because they 20 had not yet acquired American's assets. 20 use being a separate product market. Q Are you aware of it? 21 A Would I? 21 22 A No, I'm not aware of it. 22 O Yes. 23 Q But assuming that a competitor were aware of 23 A No. From what I've seen thus far, no. 24 Spurlino having a portable plant that it was Q Would you agree with this statement, that the 25 capable of using in and around the ten-county area, 25 production and distribution -- strike that -- the Page 107 Page 109 the bidder would have had that in mind and 1 production, distribution, and sale of ready-mixed 1 2 bidded -- his bid would have been influenced by 2 concrete for use in large projects is a line of 3 commerce and a relevant product market? 3 that fact, all else being equal. 4 MR. SHEVITZ: Are you reading from the 4 A All else being equal. 5 5 Q Like you all say. complaint, Dan? 6 6 A I'm glad you -- like you all say. MR. KELLEY: Pardon? 7 Q I've just picked that up from you guys. I've never 7 MR. SHEVITZ: You appear to be reading from 8 8 heard of all else being equal, but you economists one of the exhibits, and I wanted you to identify 9 9 must because I've heard that time and again. it, if you could. 10 10 MR. KELLEY: I haven't marked this yet. Excuse me. 11 A I won't say that. I may say you all, but I don't 11 MR. SHEVITZ: Oh, okay. 12 12 13 Q All else being equal? Okay. 13 MR. KELLEY: Would you like to hear the 14 A Spurlino is different than Shelby during the class 14 question again? 15 period because Spurlino was not, so far as the 15 THE WITNESS: Oh, please. 16 complaint alleges, not a member of the alleged 16 MR. SHEVITZ: My question still stands, 17 though. Even if it's unmarked, can you identify 17 cartel. Spurlino could, and did, bid on large 18 projects when it would pay for Spurlino to come 18 the document you're reading from?

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into an area with his portable plant.

But the portable plant is not an everyday

occurrence. It is not able to supply, day in and

central Indiana area. It's a very expensive way,

because of the cost of moving the plant and its

relative inefficiency, for a variety of small

day out, the multitude of needs of customers in the

MR. KELLEY: No, not yet.

Q Do you agree with this statement? The production,

distribution, and sale of ready-mixed concrete for

use in large projects is a line of commerce and a

25 A What I know -- what I know to this date, and I

MR. SHEVITZ: Okay.

relevant product market?

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- 1 haven't analyzed the relevant product markets, as
- 2 I've stated four or five times already in the
- deposition, is that I would not agree with that
- 4 statement.
- 5 Q Would you agree that the geographic market for
- 6 large commercial projects of the nature of the
- 7 15-story hypothetical we used before with the
- 8 continuous pour, 10,000 yards, would constitute a
- 9 separate geographic market?
- 10 A Again, I have not defined relevant geographic
- 11 market, but from what I know about ready-mixed
- 12 concrete, the answer is no, I don't agree with
- 13 that.
- 14 Q Did you instruct your people to research concerning
- anything they could find relevant to the issue of
- 16 ready-mixed concrete product in geographic markets?
- 17 A No. It was about the economic -- as I said
- earlier, it's about the economics of transporting
- and delivering the product, and that's reported on
- in my affidavit at length.
- 21 Q Have you read the competitive impact statement by
- the DOJ in a merger case where the United States of
- 23 America took on Cemex and the Rinker Group in the
- 24 southeast?
- 25 A No.

1 report.

- 2 Q And the travel distance of a ready-mixed concrete
- 3 truck when it's 50 degrees versus 90 degrees,
- 4 what's the difference?
- 5 A The hydration will occur, unless there are systems
- 6 that are used in the truck or in preheating the mix
- 7 at the batching plant, will occur more quickly in
- 8 the colder weather, and therefore the distance to
- 9 be traveled is less. But -- at least my
- 10 understanding of the chemistry of concrete. But
- that just about exhausts my understanding of the
- 12 chemistry of concrete. I'm not a chemical
- engineer. I just read what I've -- what's
- 14 available.
- 15 Q Are you aware that the travel distance as between
- 50 degrees and 900 degrees is almost 50 percent?
- MR. SHEVITZ: Object to form. Lack of
- 18 foundation.
- 19 A No, I'm not.
- 20 Q Is it your opinion that the central Indiana area,
- 21 the ten-county area, is a single relevant
- 22 geographic market?
- 23 A Haven't we gone over this exhaustively in the
- last -- in the deposition already? I'll be glad to
- answer it again but you'll --

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- Q Would you find it authoritative if the competitive
- 2 impact statement had determined that there were
- 3 separate product markets with respect to
- 4 ready-mixed concrete as it applied to large
- 5 commercial buildings as separate geographic markets
- 6 in that respect also?
- 7 MR. SHEVITZ: Object to form. Lack of
- 8 foundation.
- 9 A It would depend on the empirical analysis that they
- 10 did.
- 11 Q The one that you cited? FTC mention ready-mixed
- 12 concrete?
- 13 A In the Phoenix -- I think it was the Phoenix
- 14 market, yes.
- 15 Q Right. What backed that up?
- 16 A Their recitation of the basic facts in the Phoenix
- market concerning the likely market power that
- would be acquired by Cemex in its purchase of one
- of the suppliers, I don't recall the name, one of
- the large suppliers in the Phoenix market.
- 21 Q Do you agree that the geographic scope of
- 22 competition in the ready-mixed concrete industry is
- circumscribed by the perishable nature of the
- 24 product?
- 25 A In broad terms, yes. And I address that in my

- Q I'd like for you to answer that --
- 2 A -- but you'll strike it as unresponsive and
- 3 argumentative.
- 4 Q I would like for you to answer that yes or no.
- 5 MR. SHEVITZ: And go ahead and answer it
- 6 however you want.
- 7 A This morning, I stated --
- 8 Q No. I didn't get to it this morning, but go ahead.
- 9 A Well, no, you didn't.
- 10 O After lunch.
- 11 A At some point in this deposition, I stated that I
- had not attempted to identify or analyze relevant
- product or geographic markets. I took the
- geographic area as part of the framework because
- it's so -- in the amended complaint in terms of theallegations.
 - I also stated that I was not certain that in this case, even at a later stage, that a relevant product or geographic market would need to be identified.
- MR. KELLEY: Move to strike the answer as unresponsive.
- 23 Q Is the answer to my question no?
- 24 A The answer to the question is the answer to the
- 25 question.

17

18

19

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- 1 Q Are you refusing to give me a yes or no answer. Is
- 2 that right?
- 3 A Well, you can take the answer I gave, strike it,
- 4 whatever you wish, but that's the answer.
- 5 O Are you refusing --
- A And I gave it earlier.
- 7 Q Are you refusing to give me a yes or no answer to
- 8 my question?
- 9 MR. SHEVITZ: Kind of like your client used to
- 10 do? He's answered the question. You've asked it
- 11 repeatedly. As you instructed your clients in the
- earlier depositions, just because you ask the 12
- 13 question different times doesn't mean you have to
- 14 get different answers.
- 15 MR. KELLEY: I like that one.
- 16 MR. SHEVITZ: Came from a wise old man.
- 17 Q So you're not going to give me a yes or no answer.
- A Repeat the question. I don't -- I've forgotten it.
- 19 Q Is it your opinion that the central Indiana area,
- 20 the ten-county area, is a single relevant
- 21 geographic market, yes or no?
- 22 A I can't answer that yet because I haven't studied
- 23
- 24 Q Thank you.
- 25 A Which I think I already said many times.

- 1 competition and the proximity of supplier A is
- 2 likely to be -- there is likely to be more price
- 3 competition because the supplier has more profit,
- 4 if you will, to reflect in his price.
 - With a --

5

- 6 Q So -- excuse me. I don't mean to interrupt. Go 7 ahead.
- 8 A With a cartel, with the alleged cartel, that price
- 9 difference is not going to be reflected.
- 10 Q So in the eyes of the consumer, the contractor for
- 11 this project, is there differentiation --
- 12 A What I was --
- 13 O Excuse me. Let me finish.
- 14 -- is there differentiation between the plant
- 15 one mile from the project and the plant ten miles
- 16 from the project?
- 17 A From what I have seen among the purchasers, and
- 18 admittedly, this is a population of seven
- 19 purchasers, the answer is no. Because they always
- 20 looked, and they said they did, except what you
- 21 read from Mr. Salazar, but there are other parts of
- 22 his deposition that are relevant also.
- 23 Q So you think you've got a good sampling of seven on

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- 24 which to base your opinion, is that it?
- 25 MR. SHEVITZ: Would you let him finish his

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- Q Are suppliers of concrete differentiated from each
- 2 other?
- A In the central Indiana area?
- 4 Q Excuse me. Yes. Thank you. Much better question.
- 5 A No.
- 6 Q Have you heard of spatial differentiation?
- A I understand those two words. I've not seen them
- together in this particular context.
- 9 Q It's not terms that an economist might use.
- 10 A I've not seen them. I can infer what they might
- 11 mean in the context of the ready-mixed concrete
- 12 industry.
- 13 Q From the standpoint of contractors buying from
- 14 ready-mix suppliers, you would agree that a plant
- 15 one mile from a project is differentiated from a
- 16 plant that's 15 miles from that project.
- 17 A With or without --
- 18 Q In the --
- 19 A With or without a cartel?
- 20 Q In the eyes of the supplier, either way.
- 21 A In the eyes of the supplier or the purchaser?
- 22 Q Excuse me. In the eyes of the purchaser.
- 23 A With or without a cartel?
- 24 Q Either way.
- 25 A Well, without the alleged cartel, if there is price

1 answer.

- 2 MR. KELLEY: Yes. Excuse me.
- 3 THE WITNESS: Thank you.
 - MR. KELLEY: Surely. Proceed.
- 5 A Purchasers received price bids from more than two
- 6 suppliers.
- 7 Q So -- are you through or should I give you a moment
- 8 to get untangled?
- 9 A I am. I'm just trying to figure out these
- 10 different wires going where.
- 11 Q So is your answer yes or no as to the question of
- 12 is there differentiation between a plant one mile
- 13 from a project and a plant ten miles from a project
- 14
- insofar as the purchaser of this concrete is
- 15 concerned?
- MR. SHEVITZ: And I'll just interpose the same 16
- 17 objection, which he's not required to submit a yes
- 18 or no answer just to appease the questioner.
- 19 You've asked him for his opinion and he'll answer
- 20 accordingly.
- 21 A With the alleged cartel, it may have no bearing.
- 22 Without the alleged cartel, it is likely to have a
- 23 bearing.
- O So there will be --
- 25 A In the form of price competition.

UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF INDIANA INDIANAPOLIS DIVISION

IN RE READY-MIXED CONCRETE ANTITRUST LITIGATION) 1:05-cv-979-SEB-JMS)
THIS DOCUMENT RELATES TO ALL ACTIONS)))

The videotape deposition upon oral examination of JOHN C. BEYER, Ph.D., VOLUME II, a witness produced and sworn before me, Patrice E. Morrison, RMR, CRR, Notary Public in and for the County of Marion, State of Indiana, taken on behalf of the Defendants at the offices of Cohen & Malad, LLP, One Indiana Square, Suite 1400, Indianapolis, Indiana, on March 28, 2008, at 9:08 a.m., pursuant to the Federal Rules of Civil Procedure.

STEWART RICHARDSON & ASSOCIATES
Registered Professional Reporters
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Suite 2425
Indianapolis, IN 46204
(317)237-3773

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- Q And do economists have methods or means of testing
- 2 conclusions about undifferentiated or
- 3 differentiated products other than talking to
- 4 buyers or reading materials?

5

- MR. SHEVITZ: Object as to form.
- 6 A If one has access to the full range of purchasers,
- 7 there are possible -- possible ways in which
- 8 surveys can be undertaken and the results of those
- 9 surveys subjected to various statistical tests. A
- 10 very costly, seldom done exercise.
- 11 O Does the transaction data inform an economist as to
- 12 anything about homogeneity, undifferentiated, or
- 13 differentiated products?
- 14 A By themselves, no.
- 15 Q Did you rely upon the transaction data in arriving
- 16 at your opinion as to undifferentiated?
- 17 A In one sense, yes, where there were records in the
- 18 transaction data of sales of ready-mixed concrete
- 19 from one defendant supplier to another, which
- 20 identifies -- and those are identified in my
- 21 report; which is one reflection of the
- 22 interchangeability of the concrete without respect
- 23 to who produces it.
- 24 Q Did you rely on anything else in the data, other
- than the \$50,000 of sales over four years from one 25

- 1 Q You make a statement in paragraph 22 of your report
- 2 that no supplier was able to successfully brand,
- 3 and by that I mean no supplier of ready-mixed
- 4 concrete in the ten-county area was able to
- 5 successfully brand to gain a pricing premium. Do
- 6 vou recall that?
- 7 A Yes.
 - Q And on what did you base that statement?
- 9 A On several sources. First, the depositions of the
- 10 purchasers. My reading of the suppliers'
- 11 perception in the marketplace.
- 12 O 302s?
- 13 A 302s. Which is important because they -- a
- 14 supplier knows the marketplace well, so they know
- 15 what their purchasers, or the range of potential
- 16 purchasers want, because they're close to them.
- 17 Q Anything else?
- 18 A And the transaction database, because I did -- and
- 19 you have some examples of this -- selective
- 20 comparison of pricing, and there did not appear to
- be any premium that was systematic, consistent on 21
- 22 the part of any of the major suppliers.
- 23 Q Anything else as to no price premium for any
- 24 supplier based on branding?
- 25 A Those were the principal sources that I can recall

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- to another? 1
- A I relied on them for many things but I think you're
- 3 asking it about the conclusion concerning -- on
- 4 undifferentiation, right?
- 5 Q Yes.
- 6 A No.
- 7 Q That would extend to your conclusion about
- 8 undifferentiated products and the buyers of
- 9 ready-mix making their decision based on price.
- 10 MR. SHEVITZ: Object as to form.
- 11 A Are you asking that about my prior answer?
- 12 O Yes.
- 13 A Yes. That's correct.
- 14 Q Just to be sure, so that transaction data did not
- 15 inform you as to whether the purchase and sale of
- 16 ready-mixed concrete in the ten-county area was of
- 17 an undifferentiated product, and that the buyers
- 18 made their decision to purchase based principally
- 19 on price.
- 20 MR. SHEVITZ: Object as to form. Asked and
- answered. Mischaracterizes his former answer. 21
- 22 A Other than the swaps that took place, and those
- 23 were derived --
- Q The swaps, yes.
- 25 A -- were derived from the transaction data.

- 1 right now.
- Q Have you ever been present when --
- A I'm sorry?
- Q Have you ever been present when a 302 interview was
- 5 going on?
- A No.
- Q Is a 302 interview something that an economist
- normally relies upon?
- 9 A It depends on the circumstances. It's a source of
- information provided under oath by -- I think it's 10
- 11 under oath, from what I understand in reading the
- 12 302 interviews by the suppliers. And as a source
- 13 of information. I think it can be relied on.
- 14 Q Have you ever done that before?
- 15 A I don't know. I'd have to -- from memory, I don't
- 16
- 17 Q And on what do you base your opinion that it's
- 18 under oath?
- 19 A By reading -- by reading the comments of the
- 20 interviewer, or the FBI agent, reminding the
- 21 interviewee that if you don't provide the truth
- 22 now, you're going to be in trouble, or something to
- 23 that effect.
- 24 MR. SHEVITZ: I think the Beaver brothers may
- 25 have a view on that issue.

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- 1 MR. KELLEY: You misperceive the issue,
- 2 Counsel.
- 3 Q What's a price premium?
- 4 MR. SHEVITZ: Object as to form.
- 5 A A price premium, as I use it in the context of
- 6 branding, would be --
- 7 THE VIDEOGRAPHER: Excuse me, somebody's got a
- 8 BlackBerry on. We need to go off the record.
- 9 (A discussion was held off the record.)
- THE VIDEOGRAPHER: We are back on the record.
- 11 It's 9:53.
- 12 Q Pending question, I thought, was, what's a price
- premium, in your use of the term?
- 14 A Price premium would be where for the exact same
- product at a given point in time, a supplier, a
- producer of that product, is able to consistently
- achieve a higher price, therefore, a premium, than
- 18 its erstwhile competitors.
- 19 Q And you attempted to determine from the transaction
- 20 data whether there was any price premium with
- 21 respect to any ready-mix product?
- 22 A In part, but that information was already available
- 23 to me through a reading of the 302s and the
- 24 purchaser depositions, interviews, and in terms of
- 25 the third -- the information that was available

- 1 identifying what should be done in order to have a
- 2 particular form of concrete delivered, is a metric
- 3 within which the product is manufactured and
- 4 delivered
- 5 Q Does the ASTM inform you as to how a buyer is going
- 6 to feel if he orders ten trucks at 10:00 and it
 - doesn't get delivered until 10:05?
- 8 A No.

7

- 9 Q And it doesn't tell you that ASTM has a hoot to do 10 with such a problem; right?
- MR. SHEVITZ: Object as to form.
- MR. KELLEY: I'll withdraw that question.
- $13\ \ Q$ What transaction data did you examine with respect
- 14 to whether any seller of ready-mix in the
- ten-county area was getting a premium with respect
- 16 to any product?
- 17 A I examined the prices by different suppliers for
- standard, by which I mean the large purchase or
- sale item from each of the suppliers, calculated
- 20 average prices, and examined the relationship. And
- 21 what I saw -- been a number of both for preparation
- of the report and subsequent to it; and what I saw
- 23 was the absence of any persistent, as I've just
- defined it, price premium by one supplier compared
- 25 to others.

1

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- from the Ready Mix Concrete Association, ASTM, and
- 2 others who are providing information about the
- 3 ready-mixed concrete industry.
- 4 Q They provided -- this latter ASTM and the
- 5 associations provided you information as to whether
- 6 there was any sale in the Indianapolis area of
- 7 ready-mixed concrete at a premium?
- 8 A No, not that specific --
- 9 Q Thank you.

- 10 A -- but when the ASTM says and specifies that every
- cubic yard of a certain kind, type of cement, must
- meet these specifications, it is defining with very
- considerable precision what every supplier must do.
- 14 Q Does the ASTM specify the nature of the
- relationship of the buyer/seller as to what it's
- 16 got to be?
- 17 A No, of course not.
- 18 Q Does it specify as to the timing of delivery?
- 19 A Yes, it does.
- 20 Q And does it specify what happens if it isn't
- 21 delivered on time?
- 22 A No, it does not, but --
- 23 Q Does it --
- 24 A But the ASTM -- but the ASTM and other
- specifications that are put out there, by

- O So is there some -- strike that.
- 2 I'm trying to get an understanding as to if 3 you in your own mind as an economist have
 - you in your own mind as an economist have parameters for how much a price difference has to
 - be before it qualifies as a price premium.
- 6 A There is no absolute amount. The question is
- 7 whether the supplier, whoever it is, is able to
- 8 maintain that price premium on a systematic and
- 9 sustained basis.
- And what I saw is that, recognizing that the
- 11 transaction data also reflect changes in volumes,
- changes in customer mix, but even so, there are --
- there is not any evidence from these large sales,
- say, 4000 psi and 6 bag cement, which are the --
- two of the largest, or 3000 psi, there is no
- sustained price premium by suppliers.
- And you have in the material that I provided yesterday more specific examples, though the work
- was done for other reasons, but it shows that the
- suppliers were unable to have a sustained premium.
- 21 Q The information you're speaking of in your report,
- what charts is that on?
- 23 A Well, it would be the various price comparisons
- that are done, referred to in my report, and then a
- series of figures that are presented in the

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- 1 appendix.
- 2 Q The information you're talking about is set forth
- on Figure 8, 9, and 10, 11; is that correct?
- 4 Obviously not the stuff you were referring about
- 5 your return to the subpoena yesterday, but insofar
- 6 as what's in your report is my question.
- 7 A Be Figure 7 through 11, where there is comparison
- 8 of the price behavior among two or more suppliers
- 9 for a given product.
- 10 (A discussion was held off the record.)
- MS. WOODS: Can we take a short break?
- MR. KELLEY: Why don't we take a break.
- 13 MR. SHEVITZ: Sure.
- 14 THE VIDEOGRAPHER: We're off the record at
- 15 10:02.
- 16 (A brief recess was taken.)
- 17 (Exhibit 165, Exhibit 166, Exhibit 167, and
- Exhibit 168 were marked for identification.)
- THE VIDEOGRAPHER: We're back on the record.
- This is a continuation, it's 10:19.
- 21 Q Let me show you what's been marked as Exhibit 165,
- Exhibit 166, Exhibit 167, and Exhibit 168, and ask
- you if these are true and correct copies of your
- Figures 8, 9, 10, and 11 in your report which you
- 25 just pointed out.

1

- 1 number of purchasers for a given supplier for a
- 2 given product.
- 3 Q How does the index inform us as to anything about
- 4 price premium?
- 5 A Well, the index is simply one way of presenting the
- 6 information. What -- with respect to price
- 7 premiums, what Figures 8, 9, 10, and 11, or
- 8 Exhibit 165 through Exhibit 168, reveal is that
- 9 there is not a price premium for at least these
- products, which are the major products in terms of
- dollars or cubic yards by the suppliers in the
- 12 central Indiana area.
- 13 Q Has the indexing served to disguise anything?
- MR. SHEVITZ: Object as to form.
- 15 A No. It's a way of presenting -- one could convert
- this and present it in terms of actual dollars and
- you'd have the same results. An index is a neutral
- way of presenting, in this case, price information
- 19 over time.
- 20 Q So if I -- you said "convert." You mean took the
- 21 index out?
- 22 A No. It is possible to present all of these -- I'm
- 23 not sure all of them are in index form; I guess
- they are. In every case, it would be possible to
- 25 present this information on dollars per cubic yard

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record 1 basis, because that's the way in which the

- 2 underlying data has been calculated.
- 3 Q And we'd see the same thing.
- 4 A Yes.
- 5 Q A three-month moving average, is that an average of
- 6 an average?
- 7 A In this case, it is.
- 8 Q Would you explain that for me?
- 9 A Yes. A three-month moving average means that, for
- example, the value in May '01 for IMI looks at and
- takes the three prior months and calculates that,
- so it's a moving -- and the next observation, which
- would be June 2001, takes the three observations
- prior to that -- the two prior to that and April,
- average them, and that becomes the value that is
- presented on Figure 8 and so forth.
- 17 Q So to make sure I understand, each month you don't
- 18 just take all the transactions for the three months
- 19 at issue and average them again.
- 20 A I'm not sure I understand that.
- 21 O If I got a hundred -- if I got a thousand
- transactions in April, a thousand transactions in
- May, a thousand transactions in June and a
- 23 May, a diousand transactions in June and a
- 24 thousand -- and that's a very poor example. Forget
- what I just said.

MR. KELLEY: And Exhibit 165, for the record

- 2 and my compatriots here, is -- -65 is 8, -66 is 9 3 and so on, which --
- 4 MR. MIXDORF: Richard, that's all one. Pass them down.
- 6 MS. CELLA: Same one. Here's the next set.
- 7 MR. KELLEY: If I'd had time, I would have
- 8 collated these for you. I just couldn't get there.
- 9 MR. SHEVITZ: Don't interrupt me while I'm 10 concentrating. It takes my full powers.
- 11 A The answer is yes.
- MR. SHEVITZ: So this set is 165 through 168;
- 13 correct?

- MR. KELLEY: Correct. Of Figures 8, 9, 10, and 11 from his report.
- 16 Q In terms of a price premium, the moving average,
- would it be fair to state that that distortsrelationships on particular transactions, that is
- to say, I can't find individual transactions?
- MR. SHEVITZ: Object as to form.

 A In none of these figures, whether it's a
- A In none of these figures, whether it's athree-month moving average or not, you would not be
- able to identify individual transactions because
- average prices, weighted average prices are being
 - used in every instance which usually involves a

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1 In any event, I think the mathematicians in 2 the background will understand what you said better than I did. 3

Did you do these, or did you and your people do these -- and I'm saying Exhibit 165 through Exhibit 168 -- without an index?

7 A The underlying data is calculated, and you have 8 that.

9 Q I don't think that's my question.

A And that's taken from -- well, the underlying --10

11 let me --

4

5

6

12 Q I asked what you and your people did.

13 MR. SHEVITZ: He's explaining.

14 A I'm telling you.

15 Q Excuse me.

16 A Yeah. The electronic transaction database for,

17 let's take an example, IMI, for this particular

18 product, has in a given month the sales to

19 particular customers in cubic yards and in dollars.

20 And for that particular month, the cubic yards are

21 added up and the dollars are added up and from that

22 there's a weighted average price.

23 That weighted average price is calculated and

24 then an index has been prepared from that

25 particular data with two thousand -- June 2002 moving average as I have in ready-mixed concrete when the volumes of sales are relatively small and therefore changes in customer mix or in quantity purchased will cause volatility in what appears to be the price, but without reflecting the underlying price.

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Page 159

So if each -- if you move from a small -- from one month to the other with a small universe of sales, and the customer mix changes and you sell more at a lower price, larger volumes, less at a higher price, there will be an observed change, but it doesn't reflect a price change.

And therefore a three-month moving average is a means to understand better the underlying behavior of prices. Because it's difficult, if not impossible, to hold customer mix and quantities constant.

18 Q Is there some standard as to amounts or volumes 19 that are insufficient by which you move from one 20 month to a three-month?

21 A No. It depends on the behavior of the data. But, 22 for example, there are a number of articles that

23 have been published dealing with national prices --

24 oil and gas products are an example -- where there 25

is a lot of volatility from one month to the next.

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equals a hundred. 1

Q Okay. So your answer, as I understand it, is that

3 you literally had to do these, Exhibit 165 through

4 Exhibit 168, without an index before you indexed them, so to speak.

5 6

MR. SHEVITZ: Object as to form.

7 A Yes.

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Q Thank you. 8

(Exhibit 169, Exhibit 170, Exhibit 171, and

Exhibit 172 were marked for identification.) 10

11 Q While I'm thinking of it, in the 18 reports that I

12 went through, it appeared to me that you didn't

13 start using the three-month moving average until

14 about the last two, by date. Why was that? And it

15 appeared you were using a monthly moving average

16 before that. That makes no sense -- does it? -- a

17 monthly moving average.

A No, it doesn't. 18

19 Q Thank you. It appeared that you were using, in the

20 earliest ones, clear up through about 12, a monthly

21 average as opposed to a three-month moving average.

22 And so my question is, why did you switch?

23 MR. SHEVITZ: Object to form. Lack of

24 foundation.

25 A I didn't switch due to time. I used a three-month And the researchers have used either a three- or

six-month moving average as a way to understand

3 better the underlying price behavior over time.

4 Q You call oil and gas a homogenous product, right,

5 as opposed to an undifferentiated product?

6 A I haven't studied oil and gas. I would expect

that -- my hypothesis is -- would be that it is an

8 undifferentiated product.

9 O As opposed to a homogeneous product.

MR. SHEVITZ: Object as to form.

11 A Undifferentiated, but I haven't studied the oil and 12 gas industry.

13 Q Let me show you Exhibit 169 which is, I'll 14 represent to you, your Figure 8 with the price 15

index removed and ask you to examine that, please. With respect to Prairie's price on this Figure 8, the green line, it appears to me that Builder's

18 and IMI regularly receive a price in excess of 19 Prairie's price. Is that correct, Doctor?

20 MR. SHEVITZ: Let me interject for a second 21 just so I'm clear. This Exhibit 169, as I 22 understand it, Dan, is -- the top half of it is a

23 replication of Exhibit 8 from Dr. Beyer's report?

MR. KELLEY: Correct.

MR. SHEVITZ: And the bottom half of it is a

Page 160 Page 162 different table that's been prepared by someone 1 1 MR. SHEVITZ: Same objection as I raised with 2 2 respect to Exhibit 169 and Exhibit 170. else? 3 3 By the way, Dan, earlier you said we removed MR. KELLEY: Yes. 4 MR. SHEVITZ: And who prepared the other 4 the data. Who is the we, if you would be so kind? 5 5 MR. KELLEY: I couldn't accurately tell you. 6 MR. KELLEY: It's just been prepared. We just 6 MR. SHEVITZ: Okay. Then my objection is 7 took the index out. It's the same data. 7 renewed with even greater vigor. 8 8 MR. SHEVITZ: All right. Well --MR. KELLEY: That's fine. I don't think it 9 9 MR. KELLEY: We just took the index out. makes any difference who removed it. The question 10 10 MR. SHEVITZ: Without having a chance to is whether it was done right. I represent it's 11 review it, I would just -- what I'll do is I'll 11 done right. just object to any questions based on this document 12 12 MR. SHEVITZ: I'm sure you believe it is. 13 to the extent that they lack of foundation, we 13 MR. KELLEY: Okay. Well, we'll find out about 14 haven't had a chance to analyze the document or 14 it, won't we? You can look at it. He's got it in 15 determine the accuracy of the information. 15 his shop because he said he had to do this in order 16 16 to do it with an index. He can go back and ask his We'll just have that as a standing 17 17 objection -people. 18 MR. KELLEY: Sure. 18 Q Have you seen these types of things before, without MR. SHEVITZ: -- to the questions here, it 19 19 the index? 20 will save me from interrupting each time. 20 A No. I've seen the underlying raw -- raw data, but not -- not price comparisons done without an index. 21 MR. KELLEY: Want to read the question back. 21 22 (The requested material was read back by the 22 O You find that informative? 23 reporter as follows: "With respect to Prairie's 23 MR. SHEVITZ: Object as to form. 24 24 price on this Figure 8, the green line, it appears Q Now that you see it? 25 A What? "That" is what? 25 to me that Builder's and IMI regularly receive a Page 161 Page 163 1 price in excess of Prairie's price. Is that Q Now that you see these exhibits, do you find them 1 correct?") 2 2 informative? 3 A Yes. 3 A No difference than -- doesn't detract from the Q With respect to Exhibit 1- -- strike that. conclusions that I've reached at all. 4 5 5 Do you have any reason to believe that Q Okay. And on Exhibit 171, once again, Builder's Figure 8 without the price index is not an accurate 6 6 price is in excess of Shelby's generally, in excess 7 representation of the numbers appearing with the 7 of IMI's for long periods of time, and all three of 8 price index, but with it removed? them are -- that being Builder's, IMI, and A Unless I see the data, I can't really say. 9 Shelby's -- are in excess of Prairie substantially; 10 O Let me show you Exhibit 170 which is your Figure 9. 10 right? And again, on the bottom of the page index removed, 11 A Well, substantially -- you have to look at the and ask you to look at that, please. 12 index. Or you have to look at the, I'm sorry, at MR. SHEVITZ: Same objection on my part. 13 the --Q Once again --14 Q Price.

18

22

23

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11 12 13 14 15 MR. KELLEY: Did I give him a question or not? 16 Q With respect to Exhibit 170, once again, Builder's 17 and Prairie's price, average prices, as it were, on 18 your three-month moving average, are in excess 19 of -- strike that. IMI and Builder's are in excess 20 at all times of Prairie's. Correct? 21 A That's what the bottom half of Exhibit 170 shows, 22 23 Q Let me show you Exhibit 171, which is the 24 comparison of your Figure 10 with and without a 25 price index and ask you to look at that, please.

15 A -- vertical. 16 O Yeah. 17 A And substantially here means 2 or \$3, \$4 per cubic yard. 19 Q Really? 20 A It looks like --21 Q 58 -- I'm just starting over here on the left-hand column. Prairie's at 58 and I got two of them up at 64, and that's 6 bucks; right? On your far left. 25 A Well, I see Prairie at 59 and change starting out.

Page 164 Page 166

- Q Yeah. Okay, 5 bucks; right? 1
- 2 A Five bucks, yeah.
- 3 Q Yeah. You don't consider, in the ready-mixed
- 4 industry, that to be substantial?
- 5 A Well, what these -- and this is true with whether
- 6 it's presented as an index or as a price, is that
- 7 we're not able to hold constant the customer mix
- 8 and the quantity being purchased.
- 9 Q Okay. Let me show you what has been marked as
- 10 Exhibit 172 and ask you to look at that, please.
- MR. SHEVITZ: Same objection on my part. 11
- 12 Q And once again, you would agree that, would you
- not, that Prairie's price is lower than IMI's at 13
- 14 all times and lower than Builder's at all times;
- 15 correct?
- A If this -- if the underlying data that have been 16
- 17 used have been used correctly, and I haven't seen
- 18 that so I can't tell; and I would say that whoever
- 19 prepared this did not take into account the volume
- 20 of purchases and the customer mix.
- Q Other than the absence of a price premium, did you 21
- 22 use Figures 8, 9, 10, and 11 in your report for any
- 23 other purpose?
- A Well, I would include -- yes. 24
- 25 Q And what purpose was that, sir?

- 1 depositions, so on. ASTM and all the rest.
- 2 A I say this in my report and let me say it again.
- 3 The analysis of prices confirms -- is a
- 4 confirmatory analysis that -- of the investigation,
- 5 as you've called it, that leads to conclusions of
- 6 an undifferentiated product, interchangeability and 7
- 8 Q Is that the same thing as the scientific method of
- 9 hypothesis, etc., investigate and trying to test or 10
- 11 MR. SHEVITZ: Object as to form.
- 12 A It is, but we're having to work -- I'm having to
- work with contemporaneous business records of the 13
- 14 defendants, which serve different purposes, and
- 15 therefore the availability of information to test
- 16 the hypotheses are subject to limitations. And I
- 17 express what those limitations are in the report.
- 18 Q Limitation of the records, is that what you're
- 19 saving?
- 20 A Of the electronic transaction database.
- O Yeah. That's in a footnote somewhere; right?
- 22 A I don't recall. It probably isn't a big footnote,
- 23 if it is a footnote.
- 24 Q All right. Well, usually you put that in all your
- 25 reports in a footnote. Do you recall that?

Page 165

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MR. SHEVITZ: Is there a question?

3 these 18 reports that I read. It's pretty much of

MR. SHEVITZ: Object to form. Lack of 5

- 7 A It's not a habit. It's simply dealing with the
- 8 reality that the use of these historical business
- 9 records, the information that is reported is
- 11 firms. And sometimes there are limitations in the
- 13 Just have to deal with it and recognize it.
- 14 Q And that's the same caveat you put in all those

MR. SHEVITZ: Object as to form. Lack of

18 A I'm not sure that it is, but I -- you know, one

19 thing I don't do is go back and review all these

22 shouldn't say this; you have probably -- you are a

Page 167

1 2 O You generally put that caveat in a footnote in

a habit. You don't recall that?

6 foundation.

- 10 intended to serve the purposes of the particular
- 12 kind of information that is recorded. That's fine.
- 15 other reports, isn't it? 16

17 foundation.

20 reports. 21 You've -- you've -- I have to say -- I

23 unique person in this world. Somebody who --24 MR. SHEVITZ: In so many respects.

25 A In so many respects, yes. But just in terms of

A And that includes Figure 7.

- 2 O Excuse me, Figure 7.
- A That, in fact, there -- even with the small volumes 3
- 4 involved, and not holding customer mix and volumes
- 5 constant, which we're not able to do, that there
- 6 is -- appears to me to be a structure in prices
- 7 that -- over time, so that what -- if the cartel --
- 8 if the allegations of the cartel are true, then it
- 9 would affect all prices of ready-mixed cement

10 because they all behave similarly.

11 Economic considerations lead me to that 12 conclusion even without this price analysis because

- 13 it's the same technology, same inputs, and
- 14 interchangeable product, and the alleged defendants
- 15 have market power which means that the purchasers 16 could not avoid any artificially elevated prices.
- Q So you used these to determine whether there was 17 18 price structure; right?
- 19 MR. SHEVITZ: Object as to form.
- A As I've described in my report, yes. 20 Q Did you use the concept -- strike that -- a price
- 22 structure to test the conclusions you drew in the 23 investigation?
- 24 MR. SHEVITZ: Object as to form. Q You know, the reading of the complaint, the

Page 168 Page 170

- 1 having read all these boring reports and
- 2 depositions, nobody has ever done that. I haven't
- 3 done it.
- 4 Q No other attorney has ever asked you to provide all
- 5 these for him?
- 6 A No.
- 7 Q Oh. Actually, it went fairly fast after the first
- 8 one. It was quite repetitive.
- 9 MR. SHEVITZ: Why don't you wait for the next 10 question.
- 11 Q Like this footnote we're talking about.
- 12 A Really?
- 13 Q In any event --
- 14 THE VIDEOGRAPHER: Excuse me. I have about
- 15 five minutes left.
- 16 Q With respect to Exhibit 165, Exhibit 166, and
- 17 Exhibit 167, could you explain to me how these
- 18 exhibits -- well, let's just start with
- Exhibit 165. How does Exhibit 165 exhibit price 19
- 20 structure, as you said?
- 21 A Over a sustained period of time --
- 22 Q Pricing -- excuse me, is it pricing structure or
- price structure? 23
- 24 A Price -- the relationship of prices to each other,
- 25 so it's a price structure.

1 of what is a good, or satisfactory, correlation 2 coefficient.

3 Q So your answer to my question is no, you did no 4 calculation.

MR. SHEVITZ: Once again --

- 6 A I don't believe that was your question. 7
 - Q My question is, so there is some calculation -- is there some calculation you did to inform yourself as to this? The answer to that question is no;

right? You didn't do a calculation.

MR. SHEVITZ: Object as to form. As we've discussed earlier, the question doesn't have to be a yes or no answer, it may not lend itself to a yes or no answer, the witness does not have to appease you by giving you the answer you're looking for. He's answered your question.

MR. KELLEY: Not at all. Excuse me.

18 Q I'll ask you again. Did you do a calculation to 19 inform yourself as to whether there was price

20 structure exhibited on Exhibit 165?

21 MR. SHEVITZ: Asked and answered.

22 But you can go ahead.

23 A If you want a yes or no answer, as long as it is

24 understood that my prior answer is an integral part 25

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of this, no, I did not do a calculation.

Page 169

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- Q As opposed to pricing structure. I've read your
- term "pricing structure" and I've never seen it in 2
- 3 a report as, quote, price structure. And I'm
- 4 wondering if there's a difference.
- 5 A No.

- 6 Q Okay. Thank you. Excuse me. Go ahead.
 - MR. SHEVITZ: I think I've lost the question,
- 8 unfortunately.
- 9 O Tell me about Exhibit 165 and how Exhibit 165
- 10 informed you that it shows pricing structure.
- 11 A Given the recognition that the volumes of
- ready-mixed concrete that is being sold every month 12
- 13 by each supplier is a relatively small quantity and
- 14 therefore can be affected or influenced by changes
- 15 in composition of customers and volume,
- 16 nonetheless, over a sustained period of time,
- beginning in September 1999 and at least through 17
- 18 some point in 2004, prices moved in a similar
- 19 manner over that five- or six-year period, as for
- 20 this product and these particular customers.
- Q And is there some calculation that you did to 21
- 22 inform yourself as to this?
- 23 A It is a visual observation. The only statistical
- 24 test, which is the use of correlation coefficients,
- 25 in the end depends upon a subjective interpretation

- Q You can't calculate in your eyes, can you?
- A But it is a -- visual observation is a standard
- procedure in econometrics and price series, and I 3
- 4 can point you to a number of textbooks where that
- 5 is pointed -- is identified.
- 6 Q What about cointegration?
 - MR. SHEVITZ: Is there a question?
- 8 Q Cointegration.
- 9 A Never heard that term.
- Q Have you done that ever with respect to testing --
- 11 A Do vou mean --
 - MR. SHEVITZ: Let me object as to form and,
- also, I'm not even sure it's a question. At least 13
- 14 not -- maybe after you put it all together, add it
- 15 up to a question.
 - MR. KELLEY: No. no.
 - (A discussion was held off the record.)
- 18 MR. KELLEY: If I ask too many questions about
- 19 it, I'll get lost like he's going to get lost.
- 20 But, anyway...
- 21 THE WITNESS: I don't get lost.
- 22 MR. KELLEY: Oh, okay.
- 23 O How about cointegration?
- 24 MR. SHEVITZ: What's your question?
- 25 Q Have you heard the term "cointegration"?

Page 172 Page 174 A I have not. 1 1 relationship. 2 Q Pardon? 2 O So your visual inspection is not governed by any 3 A I have not. 3 protocol that anyone else could repeat. 4 Q So you wouldn't know how to do a cointegration 4 MR. SHEVITZ: Object as to form. 5 5 Mischaracterizes the testimony. 6 THE VIDEOGRAPHER: Are you --6 A That's correct. 7 MR. KELLEY: What? 7 Q So it's subjective also, as you would accuse 8 8 THE VIDEOGRAPHER: Tape. correlation of. 9 MR. KELLEY: Oh. Everybody's -- you know, I 9 A Well, in the end, it is a subjective analysis. 10 thought you were trying to tell me something, too. 10 Q Is this -- well, strike that. 11 MS. SHAPIRO: He is. 11 As I look upon Exhibit 166, Exhibit 167, and 12 MR. KELLEY: I'm kidding. Yeah, he is. 12 Exhibit 168, I can find substantial periods of time 13 where prices of various suppliers are moving MR. SHEVITZ: And Dan, when he tells you, 13 14 probably the most important thing, you have to 14 directly opposite each other. 15 listen to him. 15 A That's true. What you describe as substantial 16 MR. KELLEY: Yes, shut down, please. 16 periods of time, however, may differ depending on 17 THE VIDEOGRAPHER: This is the end of Tape 1 17 other observers. 18 of the deposition of Dr. Beyer. We're off the Q I see, okay. I can understand that. The mind is 18 19 record at 10:54. 19 not the eye, as it were. 20 (A brief recess was taken.) 20 A Is that a question? 21 THE VIDEOGRAPHER: We are back on the record. MR. SHEVITZ: I was going to say --21 22 This is the start of Tape No. 2 of the deposition 22 Q Do you agree with that? 23 of Dr. Beyer. It is 11:04. 23 A I didn't understand it. 24 Q Back to Exhibit 166, Exhibit 167, Exhibit 168, 24 Q All right. You have closely examined Figure 8, 9, 25 which are 9, 10, and 11 from your report, in terms 25 10, and 11 in your report? Page 173 Page 175 1 1 A Yes. of pricing structure, did you examine those three 2 exhibits and come to the same conclusion you Q So it wouldn't surprise you that many of these 3 3 lines with respect to each other show -- what's the testified about with respect to Exhibit 165, or 4 4 term? -- negative correlation? Figure 8? 5 5 MR. SHEVITZ: What's your question, Dan? Are A Yes. 6 you asking him to define a term? 6 MR. SHEVITZ: Object as to form. 7 7 MR. KELLEY: No. Question mark. Do you want A I did, yes. 8 8 Q And again, this is a visual thing on your behalf. me to do that again? 9 9 A Visual observation. MR. SHEVITZ: Yeah. I didn't understand the 10 10 Q Visual observation. Is there a protocol to this question. 11 visual observation? 11 MR. KELLEY: Okay. I'll read it again. 12 A You stated something and put a question mark. 12 A It is identified and specified in most of the good 13 econometrics textbooks that it is one of the first 13 Q Yes. So it wouldn't surprise you that many of 14 steps that is done when there is a time series 14 these lines with respect to each other show --15 what's the term? -- negative correlation, question 15 involved. mark. 16 16 O But it's certainly not the last step, is it? 17 MR. SHEVITZ: Object as to form. 17 MR. SHEVITZ: Do you want a definition of 18 18 A As I said in one of my prior answers, the only negative correlation? 19 other statistical application that I'm aware of is 19 MR. KELLEY: No. He understands what I want. 20 a correlation -- calculation of the correlation 20 A Are you referring to a specific -- a defined period

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whole period?

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coefficient, but since there is no objective test

correlation coefficient is acceptable or not, that

is a subjective judgment. It doesn't enhance, does

to tell the researcher whether the resulting

not enhance an understanding about the

within -- defined number of months within this

Q No, I'm just referring to how you economists would

do a correlation between these lines and the fact

that the correlation probably shows, just from a

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- 1 visual inspection, that these lines can't possibly
- 2 be moving in the same, and that's what a negative
- 3 correlation would say, isn't it?
- 4 MR. SHEVITZ: Object as to form.
- 5 Q Over time.
- A It may. 6
- 7 Q It may?
- A It may.
- 9 Q Yeah.
- 10 A That's why its value is suspect.
- 11 Q You would agree with me that the numbers that go
- 12 into the calculation to come up with a correlation
- 13 are objective numbers; correct?
- 14 A They are -- yes.
- 15 Q And the resulting number from the formula is an
- 16 objective number; correct?
- 17 A It measures what it can measure, but it doesn't --
- 18 is not able to hold constant a number of factors
- 19 that need to be held constant.
- 20 Q No one can dispute that minus 0.10 is an objective
- 21 number. Right?
- 22 MR. SHEVITZ: Object as to form.
- 23 A It is a number.
- 24 Q And it is an objective number, isn't it?
- 25 A That is a horrible redundancy.

- 1 Q Correct?
- 2 A More directly -- that is correct.
- 3 O Thanks.
- A More directly -- wait. Let me finish.
- 5 Q That's all right.
- A More directly it means that in the absence of an
- 7 objective test for correlation analysis, the
- 8 resulting number is meaningless.
- 9 Q Is there any peer-reviewed writing where I could go
- 10 and read about your theory of visually eyeballed
- 11 determined price structure?
- 12 A You mean visual observation?
- Q Or eyeballed, however you want to say it. 13
- 14 MR. SHEVITZ: Object as to form.
- 15 A I prefer to use it as other authors have used it,
- 16 visual observation. You could go to Gujarati in
- 17 his textbook, Basic Econometrics; you could go to
- 18 William Greene, also basic econometrics; and there
- 19 are several others. These are textbooks that are
- 20 used in most graduate courses on statistical
- 21 analysis.
- 22 Q And these are the ones that all talk about
- 23 visualization as being the first step; is that
- 24 correct?
- 25 MR. SHEVITZ: Object as to form.

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- Q So we don't even really have to say that, do we?
- 2 That it's an objective number, because all numbers
- 3 are objective; correct?
- 4 MR. SHEVITZ: Is that your question? Whether 5 numbers are objective?
- 6
- MR. KELLEY: No. The witness is accusing me, 7 as rightfully he should, being just a poor country
- 8 lawyer dealing with numbers like this, that I asked
- 9 a redundant question, and I'm trying to understand
- 10 my redundancy.
- 11 O Can you help me?
- 12 MR. SHEVITZ: And you proceeded with a long
- 13 introduction that I got lost. I'm asking you to
- 14 restate your question.
- 15 MR. KELLEY: I'll withdraw all that.
- 16 O The numbers that result from the correlation
- 17 formulae, as it were, are objective.
- 18 MR. SHEVITZ: Object as to form.
- 19 A You mean the correlation coefficient.
- 20 Q Yes.
- 21 A Given the underlying data that are used, yes.
- 22 Q Okay. And so what you're arguing about is what
- 23 those numbers mean.
- 24 A And is it --
- 25 MR. SHEVITZ: Object as to form.

- Q It will save a lot of time.
- A Gujarati does.
- 3 Q And he says, "A visual plot of the data is usually
- 4 the first step in the analysis of any time series."
- 5 Is that your recollection?
- 6 A I don't know if he says it that way, but --
- 7 Q Close to it?
- 8 A Close to it, yes.
- 9 Q Okay. And again, page 807, "Before one pursues
- 10 formal tests, it's always advisable to plot the
- 11 time series under study. Such plot gives an
- 12 initial clue about the likely nature of the time
- 13 series." That's what you're referring to, the
- 14 initial clue?
- 15 A No.
- 16 MR. SHEVITZ: Object as to form. I'm kind of
- 17
- 18 Q Gujarati.
- 19 MR. SHEVITZ: You've quoted from a book and
- 20 I'm not sure what your question is to the witness.
- 21 MR. KELLEY: Well, he's the one that cited me
- 22 the book. I'm just trying to read what the guy
- 23 says about it. He's talking about visualization as
- 24 being an initial clue.
- 25 Q Is that what you're referring to?

Page 180 Page 182 A If you want to dispute Gujarati, talk to him. It's 1 MR. KELLEY: Sure. 2 a basic textbook --2 MR. SHEVITZ: To save time --3 3 MR. KELLEY: Sure. Q I understand. 4 A -- that is used widely in universities in the 4 MR. SHEVITZ: -- will you --5 5 United States. MR. KELLEY: Absolutely. 6 Q He talks about your initial visualization as a 6 MR. SHEVITZ: -- stipulate --7 clue, does he not? 7 MR. KELLEY: Sure. You can incorporate by 8 8 A If you've read that particular quotation reference --9 9 correctly --MR. SHEVITZ: Thank you so much. 10 10 Q The answer would be yes. MR. KELLEY: -- the whole world and any other A -- yes, but he describes this in a number of places 11 objection you might think of overnight. 12 in his text. 12 MR. SHEVITZ: I don't think there will be an 13 Q The same way, as the first step or the initial 13 overnight. 14 clue; right? 14 MR. KELLEY: Okay. 15 A I don't know. I'd have to look at the rest of his 15 MR. SHEVITZ: And then also -description of visual observation. 16 16 MR. KELLEY: You're not going to think about 17 (Exhibit 173, Exhibit 174, Exhibit 175, and 17 this tonight? 18 Exhibit 176 were marked for identification.) 18 MR. SHEVITZ: -- I would say that -- further 19 19 Q Let me show you what's been marked as Exhibit 173, object to questions about this document because the 20 Exhibit 174, Exhibit 175, Exhibit 176, which I'll 20 document speaks for itself. 21 represent to you are --21 MR. KELLEY: Yeah. 22 MR. SHEVITZ: Is this a package? 22 Q So have you looked at it? 23 MS. CELLA: Exhibit 173. 23 A Briefly. 24 24 MR. SHEVITZ: Okay. Q Exhibit 173, Exhibit 174, Exhibit 175? And my 25 Q -- monthly averages without an index of your Figure 25 question is, do they look the same in terms of Page 181 Page 183 8, 9, 10, and 11, and I'd ask you to look at these, 1 moving similarly over time as 8, 9, 10, and 11 do 1 2 please. And as you look upon them, my question is 2 where you indexed and put them in a three-month 3 3 going to be, do these lines, in their movement moving average? 4 relative to each other, have the same look that 4 MR. SHEVITZ: And again I would just object. 5 5 your three-month indexed moving average does. The documents speak for themselves. Dr. Beyer has 6 MR. SHEVITZ: Before he answers, I haven't had 6 not had a chance to review them and they say what 7 7 a chance to look at these. Are these another set they say. He can then offer whatever comments he of -- are these documents from his report or are 8 8 has. 9 these documents that have been prepared by you or 9 MR. KELLEY: Well, I'll wait for him to review 10 someone working under your direction for the 10 them, because I'd like for -- I want to know about 11 purposes of the deposition? 11 his visualization technique. 12 MR. KELLEY: I'd like to say that I prepared 12 Q We can take a break if you --13 13 A No, not necessary. these documents. 14 14 Q Okay. MR. SHEVITZ: That's why I add the --15 MR. KELLEY: That would be the world's biggest 15 A The reason for using a three-month moving average 16 accident if that ever happened, but these are 16 is because of the volatility in prices due to 17 documents that I requested to have prepared based 17 customer and quantity variation from one period to 18 18 another. And that's the reason. So there is bound on Figure 8, 9, and 10. 19 MR. SHEVITZ: Okay. So I would interpose --19 to be a difference in this. But as I look --20 MR. KELLEY: And they used his data for this, 20 Q Is it going to look different? 21 so... I'll represent that. 21 MR. SHEVITZ: Please don't interrupt him. 22 MR. SHEVITZ: That may be. 22 Please don't interrupt him. 23 MR. KELLEY: Right. 23 A May I finish? MR. SHEVITZ: I'll interpose the same 24 24 Q Surely. Oh, absolutely. 25 25 A Oh, absolutely. objection I did before.

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1 Q Please do.

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2 A Please do. I will.

3 MR. SHEVITZ: Would it be helpful for her to read back where you were?

THE WITNESS: I know.

MR. KELLEY: He knows where.

7 A And if you look at --

8 THE WITNESS: Are we going to talk over each 9 other?

MR. KELLEY: No, no. I was talking to your counsel. Excuse me. Go ahead.

12 A If we look at Exhibit 173, even with the volatility 13 from one period to the next, these, in my judgment, 14 these prices are moving similarly over time. They 15 are increasing and then remaining stable. These 16 prices are not moving in opposite directions.

Similarly with Exhibit 174, the large declines in Prairie at several points and increases are undoubtedly due to changes in composition, customers or product, the quantities. And thus a three-month moving average is an attempt to remove those basic changes. But even without that, what is happening to prices over the period September

1999 through late 2004 is that the prices aremoving upward and then stable over time.

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Exhibit 175. Again, the three-month moving average is a way to take into account non-price behavior, which is composition of changes. And without taking -- of customers and quantity of product mix. So that the observation of Shelby in particular periods, where there are sharp declines or increases, is undoubtedly due to compositional change, and a three-month moving average is intended to reflect that. But even so, the same effect is occurring with all prices from the beginning of the period to mid-2004. There's a rise and a stabilization in prices.

And in Exhibit 176, my comments would be the same. There's a need to deal with the volatility of Prairie observations, which I am confident, by looking at the data, are due to small volumes and pronounced changes in customer or -- customer mix from one month to the next, or in the quantities that are being sold. But taking that into account, if you look at the beginning and at the end of the period, January-May '04, there is a reasonably similar alignment of these prices over time.

MR. KELLEY: I think I agree with your counsel; these exhibits speak for themselves. I have no further questions. Pass the witness.

1 EXAMINATION

2 BY MS. WOODS:

3 Q Dr. Beyer, my name is Judy Woods. I represent the

4 Builder's defendants. I'm going to ask you some

5 questions about Part IV of your report.

6 A Can you wait just a moment till I -- I'm not sure

what Part IV is and I just want to --

8 Q You don't even have to have it in front of you.

9 We'll get to it. It's -- Part IV is labeled

10 "Feasibility of Assessing Damages on a Class-Wide

11 Basis."

7

12 A Oh, okay.

13 Q Okay?

14 A Okay.

15 Q All right. I'll just give you that as a point of

16 reference.

Am I correct that you were charged by the plaintiffs with attempting to determine whether

19 there were one or more feasible approaches for

estimating damages on a classwide basis?

21 A Yes, that was one of --

22 Q Is that a fair statement of your assignment?

23 A -- one of two tasks, yes.

 $24\ \ Q\$ And you concluded that there were one or more

25 feasible approaches for estimating damages on a

Page 187

classwide basis; correct?

2 A Yes.

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3 Q What are they?

4 A Both -- the ultimate question is whether the price

5 of ready-mixed concrete during the class period was

6 artificially higher due to the alleged cartel than

7 it would be absent the alleged cartel.

8 Q I asked you what the methods were though.

9 A I know. And I'm --

10 MR. SHEVITZ: Judy, please.

11 A And the most important part of this is estimating

the overcharge, what I refer -- if there is such a

difference. And the approaches to estimating the

overcharge is to use two that I identified in the

15 report: A temporal benchmark, which means time,

and I define -- identified that as most likely

being the period subsequent to the alleged cartel;

and potentially a geographic benchmark, another

19 geographic area that is not subject to the alleged

20 cartel.

21 Q Have you considered any other approaches for

estimating damages on a classwide basis?

23 A The use -- the question of the overcharge, that's

24 ultimately, because the other parts of the damage

estimation are common: The volume of sales, the

Page 200

Page 202

Page 203

1 to conduct a regression analysis at this point with 2 respect to those factors relative to those items 3 you just listed?

MR. SHEVITZ: Object as to form.

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A That still has to be reviewed, but my preliminary judgment is that additional transaction data for months in the remainder of 2005, for some suppliers who have not provided that, defendant suppliers, and 2006 would probably be required.

10 Q Have you experienced any difficulties in the 11 electronic transaction database with respect to 12 comparability of data from supplier to supplier?

13 MR. SHEVITZ: Object to form. 14 A After the questions and answers which occurred

15 early, prior to the preparation of this report,

16 there may be some still ongoing with American and

17 Builder's, because we received that data fairly

18 recently. But with those exceptions which have

19 been, by and large, answered, no.

20 Q Do you know when the Builder's transactional 21 database was provided to plaintiffs' counsel?

A There was an initial set of electronic transaction 22

23 data that was provided in, I think, sometime in

24 2006 or early 2007. There was a subsequent set of

25 data provided, subsequent to my report, which was 1 problem, and he's saying he would address it, and 2

now you're asking him how he would address a

3 problem that hasn't been presented to him yet? 4

Q Do you understand the question? If there's a 5 difference between the invoice and the delivery

6 ticket with respect to the amount of concrete

7 delivered in a particular transaction, which are 8

you going to rely on?

9 A I thought I just answered that question. Let me 10 state it again. I will rely upon the electronic 11 transaction data as being an accurate 12 representation of the quantity of cement and the

value of the cement represented by the dollars that 13 14 the invoice shows. 15

And if it turns out that there is a discrepancy between the supplier's historical records and the ticket, then -- and it can be demonstrated that the ticket is a more accurate representation of the quantity and dollars involved. I would -- I would take that into

20 21 account.

22

Q Do you intend to include the place of delivery as 23 one of the variables to be included in your

24 analysis?

25 A Presently, no.

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Q So the place where the concrete was delivered is

2 not going to be included in your regression 3 analysis; correct?

4 A Based -- well, I don't know for a fact, but

5 presently, no.

6 Q You've proposed what you term to be a, quote, fixed

7 effects model; correct?

8 A I may use it. I didn't say I would.

9 O Tell us what you mean by that term.

A A fixed effects model, which is described in most 10

11 econometric books, is a segment of the regression

12 model which takes into account customer

13 identification, supplier identification, and

14 potentially product identification, and therefore

15 is incorporated -- those variables are specifically

16 incorporated in the analysis.

17 Q Do you intend to run separate regressions by

18 product?

19 A I haven't thought -- if I'm selected, I will

20 obviously address that question. If a fixed

effects model is used, probably not, because fixed 21

22 effects model would be able to take into account

23 price formation for the particular product type,

24 but that is something that is yet to be determined.

25 Q Have you given any consideration as to how you're

1 late 2007, early 2008, but I don't -- that is

2 dependent -- is based on my memory.

3 Q Do you know what information was provided by 4 Builder's to plaintiffs' counsel in late 2007 or

5 early 2008?

6 A I believe it was explained to me as a more complete 7 dataset for essentially the same period.

8 Q If there are differences in the electronic database

9 with respect to a particular transaction, let's say 10 there's a difference between the delivery ticket

11 and the invoice, how will you reconcile those 12 differences?

13 MR. SHEVITZ: Object as to form. Calls for 14 speculation. Lack of foundation.

A I am relying upon the electronic transaction 15 16 database, which is a historical record of each

17 supplier's transactions. If there are differences

18 and you wish to point them out at some point, then 19 I will take -- between the ticket that's delivered

20 to the purchaser and the recording of that

21 transaction subsequently by the supplier, I'll take

22 that difference into account.

23 O How will you do that?

24 MR. SHEVITZ: Object. The same objection. I

25 mean, you're asking him about a speculative

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- 1 others, but this -- those are ones that come to 2
- Q I'd like you to modify the fixed effects model in 3 4 the carbon black case.
- 5 A Carbon black -- and again, this is a function of 6 the industry. Carbon black is produced out of the 7 same, for a given supplier, out of the same 8 facility, but it's sold to, broadly, two different categories of purchasers: Those who manufacture 9 automobile tires and those who use carbon black in 10 11 various other industrial uses.

And because there was a judgment made by me early on that there might be a differential impact depending on that end use, automobile and all other, I divided the fixed effects into these two -- so there were two: Automobile tires/all other.

- 18 Q Do you have an opinion as to whether or not such approach would be appropriate with respect to 19
- 20 ready-mixed concrete?
- 21 A What I know so far is that it would not. And this
- 22 is a function, like I've just explained, of the
- technology, the characteristics of the industry. 23
- Q Have you ever critiqued someone else's use of a 24 25 fixed effects regression model?

A That is correct, though there is considerable 1 2

- debate in the econometrics profession as to
- 3 whether, as a simple statement, that, in fact,
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- 5 Q Do you know what a spurious correlation is, 6 Dr. Beyer?
 - A Oh, yes. I've had that term thrown at me, I've got pinholes all over. But I would consider a spurious correlation to be one where the signs -- multiple regression analysis, not correlation; where the signs of the independent variables are contrary to what one would expect in economics, so it's not consistent with economic theory.

There may also be extraneous, independent variables which can lead to artificial results or spurious results. There are a variety of other factors that can lead to the same thing, but there is such a thing as a spurious --

- Q In the model that you have suggested as the most 19 20 suitable approach to calculating damages in this 21 class action case, how will you control or take 22 steps to make sure that there is not a spurious 23 correlation?
 - MR. SHEVITZ: Object to form. Lack of foundation.

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1 A Yes.

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- O On what occasion?
- A On the occasion where an expert that is opposite me
- 4 has applied, in my judgment, incorrectly a fixed
- 5 effects model to the same dataset.
- 6 Q Do you recall the case?
- 7 A One that comes to mind fairly recently is polyester
- 8 staple fibers.
- 9 O Any others?

17

- A I'd have to look again and see, but you have the 10 11
- Q Do you agree with me that even if you have a 12
- 13 successful application of a regression analysis,
- 14 that, at most, you can only establish a correlation
- 15 between the dependent and the explanatory variables
- 16 that are specified in the model?
 - MR. SHEVITZ: Object as to form.
- 18 A Multiple regression analysis is not a correlation
- 19 analysis. There is an association of a change in
- 20 one or more of the independent variables with
- 21 changes in the dependent variable, in this case,
- 22 the price. And that is not a correlation analysis.
- 23 O Do you agree that regression analysis does not
- 24 establish a causal relationship?
 - MR. SHEVITZ: Object as to form.

- A What I would -- the steps I mentioned before, and
- 2 I'll just repeat them. And you'd find this in most
- 3 econometrics books. If the model is economically 4 well specified, that means if it comports with
- 5 economic theory, if it comports with the particular
- 6 industry or subject of the investigation, and if
- 7 the data are reasonably -- judged to be reasonably
- 8 accurate, then the output of the regression
- 9 analysis will tell the researcher whether it is a
- 10 good, i.e., a non-spurious result.
- 11 And the outputs are the science of the 12 independent variables, their statistical
- 13 significance, and there are objective guidelines
 - for those, the F-statistics.
- 15 Q I'm sorry?
- 16 A The F-statistics. And there are also objective
- guidelines for those; maybe the R-squared, although 17 18 there is not an objective test for the values of
- 19 that.
- 20 So if the output passes muster by objective 21 tests, I would say that one can conclude that the
- 22 result of the analysis is sound; i.e., not
- 23 spurious.
- 24 Q What objective tests or guidelines do you propose
- 25 would be appropriate in this case?

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MR. SHEVITZ: Lack of foundation. 1

2 A They are the same ones. What I'm describing is a 3 general approach to the application of multiple 4 regression analysis, whether it be of the 5 ready-mixed concrete industry in the central 6 Indiana area or trying to measure corn yields on 7 farms in Indiana or trying to look at health

outcomes and explain what makes one area better

- 9 than another. 10 These are all areas in which multiple 11 regression analysis is applied, and the same set of 12 considerations also apply.
- O Do you agree that failure to include a major 13 14 explanatory variable that's correlated with a 15 dependent variable may actually cause an included 16 independent variable to be credited with an effect 17 that is actually caused by the excluded variable? 18 MR. SHEVITZ: Object as to form.
- 19 A I can't help but observe that that question was 20 written for you by somebody.
- 21 Q Actually it was not.

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- 22 A Oh, then I apologize. I apologize.
- 23 Q Can you answer the question?
- 24 A The answer is, it may or it may not.
- 25 Q So you don't know.

1 ready-mixed concrete industry and the demand and

costs suggests that there are no nonlinear

3 relationships.

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4 Q Okay. Do you expect to find any sort of feedback 5 loop between your dependent variable, the price, 6 and any of the explanatory variables that you would 7 propose to use in this case?

8 MR. SHEVITZ: Object to form. Lack of 9 foundation. Calls for speculation. 10

Go ahead.

11 A If the model is well specified, there should be no 12 feedback effects. The independent variables should 13 be exogenous, or independent, of the price.

14 Q Now, generally, multiple regression analysis is 15 used to reject a null hypothesis, that there's no

16 impact; in this case, we would say there's no

17 impact from the defendants' alleged cartel behavior 18 on prices of ready-mixed concrete; correct?

19 MR. SHEVITZ: Object to form.

20 A If that were the null hypothesis, it could be

21 satisfied, and then you would have to -- be able to

22 interpret the various statistics, what I've

23 described as a multiple regression output,

24 accordingly.

25 Q Is that what you propose to do here?

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A It is a function of the analysis. Q But it is possible for that to happen; correct? 2

A Oh, it's possible, in the sense that everything is 3 Q What I've described is sometimes referred to as a possible, yes. 4 one-tailed test; correct?

5 Q So we come back to the point that you've made a

couple of times and I've made a couple of times 6

7 that the success of the multiple regression 8 analysis to determine damages in a case such as

9 this really depends on specification of the model;

10 correct?

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11 A Well, it depends more on the specification. It

12 also depends on the data, and it depends on the

13 output that can be tested against objective means,

14 objective tests, that are used in econometrics.

15 Q You're familiar, I'm sure, with the interplay among 16 variables that can be both linear and nonlinear in

17 regression analysis; correct?

18 MR. SHEVITZ: Object as to form.

19 A Potentially, yes.

Q Okay. Have you made any determinations or reached

21 any conclusions with respect to the need to account

22 for nonlinearity in a regression analysis for

23 ready-mixed concrete?

24 A That is something that would be determined later,

25 though at this point my investigation of the 1 MR. SHEVITZ: Object to form.

A That is usually the way it is done.

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5 A I did not interpret it that way. It can be done as

6 a one-tailed test, but quite often, and what we

7 would be looking at here, is probably a two-tailed,

8 or imposing the threshold of statistical

9 significance of a two-tailed test.

10 Q Is that what you would propose to use here, would 11 be a two-tailed test?

12 A I probably would unless I had reason to the

13 contrary. There have been a few cases where, in 14 the nature of the multiple regression analysis, the

15 test has been one tail.

16 Q And what would be the alternative hypothesis you 17 would propose for your two-tailed test?

18 MR. SHEVITZ: Calls for speculation.

19 A It is -- it is the level of significance that is

20 imposed by a two-tailed test. A one-tailed test,

21 if it were to apply, could be 90 percent, for

22 example; passes a test that is generally accepted

23 within the social sciences as being a suitable

24 test. A two-tailed test is more rigorous. It is

25 95 percent. That's really -- Page 216 Page 218

- 1 Q Which do you propose to use?
 - MR. SHEVITZ: Same objection.
- 3 A Unless -- I just answered that question. Unless
- 4 there is something that is -- that I don't know at
- 5 present, it is to use the two-tailed test, to the
- 6 95 percent, as a means of testing the statistical
- 7 significance of each independent variable.
- Q You would agree that if you're able to reject the
- 9 95 -- reject with 95 percent competence levels a
- 10 null hypothesis that cartel behavior affected price
- 11 in this case, that that still does not establish
- 12 legal liability.

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- 13 MR. SHEVITZ: Object to form. Calls for 14 speculation. Calls for a legal conclusion.
- 15 A In measuring the damages, which is what we've been
- 16 talking about and what I've discussed in my report,
- 17 I am taking as given the alleged cartel, as it is
- 18 identified in the complaint.
- 19 I'm not intending that, and I don't think
- 20 other economists, if they're involved, would intend
- to use the regression results and interpret them as 21
- 22 a means of expressing opinions about the presence
- 23 or absence of the cartel.
- 24 Q So the answer is yes; correct?
- 25 MR. SHEVITZ: Objection. Asked and answered.

1 variables? In other words, differences in the 2

3 MR. SHEVITZ: Same objection.

- 4 A For the same -- same variable? For example, if --
- 5 if housing permits are used as a demand variable
- 6 for the ready-mixed concrete, are you asking the
- 7 question, if two different researchers measure that
- 8 variable and get different --
- 9 Q In a different way. That can have an effect on the 10 outcome; correct?
- 11 A It could and it couldn't. It may not. Depends on 12
- how large the difference is. Q Now, do you propose to do a regression analysis in 13
- 14 this case? Or let me ask you this a different way.
- 15 Strike that.
- 16 Do you think that the most suitable regression 17 analysis for assessing damages on a classwide basis 18 in this case would be one that used the entire
- 19 population of transactional data, or used some 20 subset?
- 21 MR. SHEVITZ: Same objections.
- 22 A Define -- tell me what you have in mind about the 23 entire transaction.
- 24 Q In other words, are you going to use all the
- 25 transactional data that has been supplied to you by

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You don't have to give a yes or no answer to please the questioner.

- A You would have to repeat the question again.
- O She can read it back if you need to hear it again. 4
- 5 A Yes.

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- 6 (The requested material was read back by the 7 reporter.)
- 8 MR. SHEVITZ: Same objection.
- 9 A If it's under- -- if my answer is understood in the
- 10 context of the previous answer, yes.
- 11 Q Now, would you agree with me that the results of
- 12 any particular regression analysis would be
- 13 sensitive to even a slight variation in the
- 14 specification of the independent variables?
- 15 MR. SHEVITZ: Lack of foundation. Calls for
- 16 speculation.
- 17 A I don't know how to answer that. A slight
- 18 difference.
- Q One variable, two variables.
- A With the addition of one variable, if you consider 20
- 21 that slight, may make a tremendous difference in
- 22 the outcome.
- 23 O And isn't the same true, isn't it true that the
- 24 results of a regression analysis can also be
- 25 sensitive to differences in measurement of those

the defendants in this case or are you going to do

- 2 some sampling of the transactional data to --3
- MR. SHEVITZ: Again, calls for speculation. 4 Go ahead.
 - A Because of the ease of working with the data once it is in electronic form, the data will be used in
- 7 their entirety for the relevant periods.
- 8 However, just to make sure that it's clear, it
- 9 is unlikely that I would include data prior to the 10 alleged class period because -- even though it is
- 11 available for some but not all of the suppliers;
- 12 because, as I've said earlier, that may be affected
- 13 by statements that there was explicit coordination
- 14 of prices in that prior time period.
- 15 Q Are you concerned at all in conducting the type of 16 regression analysis that you've proposed for this
- 17 case about how to control for outliers in the data?
- 18 In other words, aberrant data points?
- 19 MR. SHEVITZ: Object to form. Calls for 20 speculation.
- 21 A One of the standard procedures that I and Nathan
- 22 Associates use is to remove outliers through a
- 23 standard approach. Usually it is three standard
- 24 deviations from the mean over which the -- the mean
- 25 of the period that it is used, and therefore

Page 220 Page 222

- 1 outliers are removed. I don't -- if somebody else
- 2 is doing this analysis, I don't know. But what --
- 3 Q Is that what you would propose to do in this case
- 4 if you were doing the analysis --
 - MR. SHEVITZ: Same objection.
- 6 Q -- is remove three data points that are more than
- 7 three standard deviations from the mean?
- 8 A I haven't thought about that, but that is likely to
- 9 be the approach.
- 10 Q Have you given any consideration as to what effect
- that will have in terms of the number of data
- points that might be removed from the database?
- 13 MR. SHEVITZ: Same objection.
- 14 A I haven't done that so I don't know.
- 15 Q Now, when Mr. Kelley asked you questions about your
- Figures 8, 9, 10, and 11, you had some discussion
- about the use of rolling averages or moving
- averages; correct? Remember that?
- 19 A Yes.

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- 20 Q And you suggested that you use rolling averages
- because you're not able to hold constant customer
- 22 mix and the quantity of ready-mixed concrete being
- 23 purchased; correct?
- 24 A That's correct.
- 25 Q Why do you believe that it's necessary to hold

- 1 there is price structure, a structure to prices,
 - no. In the regression analysis, that information
- 3 will be reflected in the analysis itself. So it's
- 4 not masking it; it's taking that information and
 - making an explicit recognition of it.
- Q Do you intend to use rolling average prices as yourdependent variable in the regression analysis?
- 8 MR. SHEVITZ: Calls for speculation. Lack of foundation.
- 10 Q Or would you recommend using that?
- 11 MR. SHEVITZ: Same objection.
- 12 A I would not.
- 13 Q Now, one of the other reasons you said that you
- used three-month moving averages is because there
- was a small universe of sales or a small universe
- 16 of transactions: correct?
- 17 A Yes.

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- 18 Q Is that the case with respect to ready-mixed
- 19 concrete?
- 20 MR. SHEVITZ: Object to form.
- 21 A When you look at a given supplier and a given
- 22 customer, for example, for one month, the amount of
- observations, the transactions that are involved,
- 24 may be nonexistent, very small, or very large.
- 25 Q Well, I guess I'm asking you, do you know that to

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Page 223

- 1 those two factors constant?
- 2 A Because the changes of customer mix from one month
- 3 to the next, or the quantity at which ready-mixed
- 4 cement is sold may have a considerable influence on
- 5 the observed price but not reflect what the
- 6 underlying price is.

- So, for example, we'll use an illustration.
- 8 If for your client, in one month, the bulk of the
- 9 customers are large purchasers, the price for a
- given type of ready-mixed concrete is going to be
- lower; but if in the next month, if the number of
- customers is half who buy at that lower price, and
- there are more customers who are smaller buying at
- a higher price, the observed average price will be
- 15 higher.
- That does not reflect the underlying changes
- in the price of cement. It reflects a change in
- 18 the composition of the customers, or of the
- 19 quantities being sold.
- 20 Q By using that approach and trying to control for
- 21 the customer mix in this way, aren't you masking
- the fact that there may be significant differences
- in the customer bases of different suppliers?
- 24 MR. SHEVITZ: Object to form.
- 25 A For the comparison of price structure, whether

- be a fact in this case, or is that just an
- assumption that you're making?
- 3 A I know that to be a fact because it's reflected
- 4 through an analysis of the transaction database.
- 5 Q Where does that analysis appear in your report?
- 6 A It doesn't, except by my stating that it is so. A
- 7 small customer isn't going to be purchasing
- 8 necessarily from the same supplier every month.
- 9 Q Now, the second part of your estimation of damages,
- after you've done the regression analysis and
- 11 you've come up with some overcharge price, is to
- apply that to classwide sales; correct? That's the
- second part of what you propose to do.
- 14 A Yes.
- 15 Q What data are you going to use for classwide sales?
- 16 A The defendants' sales, which are based off of the
- electronic transaction base.
- 18 Q Are you going to use yards sold?
- MR. SHEVITZ: Calls for speculation.
- 20 A Yes, because the electronic database reflects
- 21 transactions that have occurred.
- The electronic -- let me just be clear. The
- electronic transaction database is simply a
- recording of what has actually taken place by
- 25 paper; invoices that go from your client, for

Page 224 Page 226 1 example, to a particular customer. And for ease of 1 Q Right. Right. 2 various kinds, the suppliers have chosen to record 2 A -- who are themselves following --3 Q I was just using that as an example. that information electronically. That's all that 3 4 A Yes. 5 So I would expect that anything that appears 5 Q All right. Could buyers or purchasers of 6 6 in the electronic transaction records of the ready-mixed concrete specify higher standards than 7 defendant suppliers represent transactions; 7 any of those industry-specified standards? 8 A Yes, they can. Although, let me just say, most concrete, ready-mixed concrete that has been sold. 9 Q Have you considered any other way of defining sales 9 builders know that if they specify higher standards 10 other than yards sold? 10 it's going to cost them something. 11 A No. 11 O Okay. And could suppliers also exceed such 12 12 Q Other than the exclusions that are in the standards even if not specified by a buyer? 13 definition of the class, do you intend to include 13 MR. SHEVITZ: Calls for speculation. 14 all sales in this damage calculation that you 14 A If they did so knowingly and systematically, their 15 propose? 15 profits would be reduced over time, and they may go 16 A All sales of ready-mixed concrete. 16 out of business. 17 Q Will there be any exclusions other than those Q Unless they charged a premium for that. Correct? 18 exclusions from the class in the class definition? A If their purchasers of ready-mixed concrete were 19 MR. SHEVITZ: Calls for speculation. 19 prepared to pay a premium for that basis. 20 A I haven't examined that question because I'm not 20 Q Do you believe that firms that consistently 21 yet there, but my present inclination is no. exceeded minimum standards and were able to market 21 22 22 MS. WOODS: Oh, five minutes? Okay. Let's their product as exceeding such standards could 23 take a short break so he can change the tape. 23 have a competitive advantage over other firms? 24 THE VIDEOGRAPHER: This marks the end of Tape 24 MR. SHEVITZ: Object to form. Lack of 25 2. We're off the record at 12:27. 25 foundation. Calls for speculation. Page 225 Page 227 1 1 (A lunch recess was taken.) THE WITNESS: Could I have the question read 2 THE VIDEOGRAPHER: We are back on the record. 2 back. 3 3 This is the start of Tape No. 3 of the deposition (The requested material was read back by the 4 of Dr. Beyer. It is 1:27. 4 reporter.) 5 5 Q Dr. Beyer, your conclusions about the price A At any given price, if those firms were willing to 6 structure based on the figures attached to your 6 sacrifice that higher standard for less profit. 7 report, Figures 8 through 11, you've testified 7 Q You've also testified that you believe price is the 8 8 earlier that you had reached your conclusions based primary or most determinative factor in terms of 9 upon visual inspection of those charts. Correct? 9 making purchase decisions with respect to 10 A For that information, yes. 10 ready-mixed concrete; correct? 11 Q Yes. Yes. Is that visual inspection such that 11 A That's my observation. My conclusion, after the 12 it's so apparent that you think that anyone who 12 economic -- identifying the economic 13 characteristics of the product and the comments and looks at those charts should be able to see the 13 14 price structure that you observed? 14 observations of a set of purchasers and of the 15 A Yes. 15 suppliers. 16 Q You also testified that to be competitive, all 16 Q Would you expect a firm that consistently charges

producers would have to meet certain minimum 17

18 standards, minimum quality standards. Correct?

19 A Yes.

20 Q And in your report and in your testimony you talked

21 about certain minimum standards as specified by

22 such organizations as the ASTM; correct?

23 A Yes. But there are others.

24 O There are others.

25 A It may be the architects involved --

17 more for its ready-mix products to have an

18 increasing, decreasing, or stable volume of sales?

19 A With or without a cartel?

20 Q Without.

21 A Without a cartel, such a firm is likely, in the

present -- what I've analyzed this to be, that firm 22

23 is likely to lose market share over time.

Q And with a cartel, would your answer be the same?

25 A No. With a cartel -- with a cartel, if there's

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- A No. 1
- 2 Q Okay.
- A The conclusion is based upon my analysis about the 3
- 4 economic characteristics of the product,
- 5 ready-mixed concrete, namely that is
- 6 undifferentiated, interchangeable product; that
- 7 there is supply substitution in the industry; that
- 8 with the exception of the extremes that you just
- 9 pointed out in distance, that there are, for most
- 10 purchasers, two or more suppliers of ready-mixed
- 11 concrete and therefore potentially price
- 12 competition; that there is sufficient market power
- 13 that purchasers would not be able to avoid price
- 14 increases; and that the character and nature of
- 15 price announcements further reinforce that
- 16 conclusion.
- 17 The analysis empirically of the price
- 18 structure is a confirmatory analysis of that
- 19 conclusion. So I don't need the price structure
- 20 analysis. It is -- but it is a confirmatory
- 21 analysis, from my point of view.
- 22 O If we didn't have a price structure analysis a part
- of your report, would you reach the same conclusion 23
- 24 about common proof of impact?
- 25 A Yes.

1 Q I want to ask, do you recall yesterday you

- referenced looking at some Bureau of Census data
- 3 regarding metropolitan statistical areas?
- A Yes.

2

- 5 Q And I believe you said that nine of the ten
- 6 counties, plus two others, are in a metropolitan
- 7 statistical area. Is that right?
- 8 A Correct. At least as I recall from looking at it.
- 9 Q So there's one county within the ten-county area in
- 10 this case that's not in the same metropolitan
- 11 statistical area as the nine others; is that right?
- 12 A Yes. Monroe County is not part of the standard
- 13 metropolitan statistical area, and I believe there
- 14 are two other counties that are not part of -- that
- 15 are not -- that are in addition to the other nine
- 16 counties.
- 17 Q Are you familiar with the term "component economic
- 18
- 19 A Could you say that again.
- 20 Q Are you familiar with the term "component economic
- area"? 21
- 22 A I've not seen it. I guess I could infer what it
- 23 means. I've not seen that term, no.
- 24 Q How does the Bureau of Census determine which
- 25 counties to include in a metropolitan statistical

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- Q So you don't need that portion to reach your conclusion. 2
- 3 A That's correct.
- 4 MR. HARRIS: Okay. That's all the questions I
- 5 have. Thank you.
- 6 **EXAMINATION**
- 7 BY MR. HURLEY:
- 8 Q Dr. Beyer, you've used the term "cartel" throughout
- 9 this deposition. What is your definition of that
- term? 10
- 11 A By economists in the field of industrial
- 12 organization, a cartel means an explicit
- arrangement, agreement among firms that would 13
- 14 otherwise be competitors on prices, restriction of
- 15 supply, or other anticompetitive behavior.
- 16 Q And is that the way in which you've used the term
- throughout the deposition? 17
- 18 A Yes.
- 19 Q How many cartels have you assumed existed in the
- 20 central Indiana area during the class period?
- 21 A I've just made -- the one assumption I've made is
- 22 based upon the second amended complaint.
- 23 O And how many cartels are referenced in the second
- 24 amended complaint?
- 25 A So far as I'm aware, one.

1 area?

4

7

- 2 A The Bureau -- the Bureau -- Census Bureau has
- 3 several techniques or criteria to determine
 - whether -- how wide the geographic reach of the
- 5 metropolitan statistical area is. Part of it is
- 6 commuting patterns, and that is from census data,
 - so it changes very infrequently; part of it is from
- 8 other sources of information that the Census Bureau
- 9 has about economic interaction between the core of
- 10 the area, which would be Indianapolis, and the
- 11 immediate surrounding counties and counties in the 12
- periphery.
- 13 There may be a variety of other, but basically 14
- it is to decide, on the fringe of the area, which
- 15 of the counties have a sufficient level of
- 16 interaction that they should be incorporated as one
 - geographic area in looking at various types of
- 18 demographic and economic data.
- 19 MR. HURLEY: I don't have any other questions.
- 20 MS. WOODS: I have one omitted question, if I
- 21 may.
- 22 **EXAMINATION**
- 23 BY MS. WOODS:
- 24 Q Dr. Beyer, your mention of price announcements in
- 25 response to Mr. Harris's question reminded me that

Page 252 Page 254 1 I omitted to ask you, have you done any empirical 1 STATE OF INDIANA 2 analysis with respect to any of the transaction 2 **COUNTY OF MARION** 3 data in this case relative to any of the price 3 4 announcements? 4 I, Patrice E. Morrison, a Notary Public in and 5 A No. 5 for said county and state, do hereby certify that the Q And so you haven't done any analysis to determine 6 deponent herein was by me first duly sworn to tell the 7 if there were, in fact, any increases in prices 7 truth, the whole truth, and nothing but the truth in 8 8 following the price announcements? the aforementioned matter; 9 A As of this date, no. 9 That the foregoing deposition was taken on MR. KELLEY: Just a couple. 10 10 behalf of the Defendants; that said deposition was 11 **EXAMINATION** 11 taken at the time and place heretofore mentioned 12 BY MR. KELLEY: 12 between 9:21 a.m. and 4:56 p.m. and 9:08 a.m. and Q Mr. Beyer, when did you get to town? 13 13 2:09 p.m. respectively; 14 A Let's see, basketball nights, I can define it --14 That said deposition was taken down in 15 Tuesday night. 15 stenograph notes and afterwards reduced to typewriting Q When did you send to Mr. Shevitz and Mr. Levin the 16 under my direction; and that the typewritten 17 documents that were the return to our supplemental transcript is a true record of the testimony given by 17 18 subpoena? 18 said deponent; 19 19 A Wednesday morning I gave most of the documents to And thereafter presented to said witness for 20 him, and others came by e-mail that morning, or 20 signature; that this certificate does not purport to 21 were already here. 21 acknowledge or verify the signature hereto of the 22 MR. KELLEY: No further questions. 22 deponent. 2.3 23 THE VIDEOGRAPHER: That completes Volume II of I do further certify that I am a disinterested 24 the deposition of Dr. John Beyer, Tape 3 of 3. 24 person in this cause of action; that I am not a 25 We're off the record at 2:09. 25 relative of the attorneys for any of the parties. Page 255 Page 253 1 UNITED STATES DISTRICT COURT 1 IN WITNESS WHEREOF. I have hereunto set my SOUTHERN DISTRICT OF INDIANA 2 hand and affixed my notarial seal this_____ 2 INDIANAPOLIS DIVISION 3 March, 2008. 3 4 IN RE READY-MIXED CONCRETE) 1:05-cv-979-SEB-JMS 5 ANTITRUST LITIGATION 6 THIS DOCUMENT RELATES TO 7 ALL ACTIONS 8 7 9 8 9 10 Patrice E. Morrison, Notary Public 1 0 Job No. 41455 11 11 12 My commission expires: I, JOHN BEYER, PH.D., state that I have read 12 the foregoing transcript of the testimony given by me September 28, 2009 at my deposition on March 27 and 28, 2008, and that 13 said transcript constitutes a true and correct record Job No. 41455 of the testimony given by me at said deposition except 14 as I have so indicated on the errata sheets provided 14 15 15 16 16 JOHN BEYER, Ph.D. 17 17 18 18 19 19 20 20 21 21 22 STEWART RICHARDSON & ASSOCIATES 22 Registered Professional Reporters 23 One Indiana Square, Suite 2425 23 Indianapolis, IN 46204 2.4 (317)237-3773 24 25

Start start John Beyer

MR. KELLEY: Is Mr. Kelley.

MR. SHEVITZ: Is Mr. Shevitz.

MR. HARRIS: Is here.

MR. HARRIS: Is here.

MR. JONES: Is here.

MR. HURLEY: Is here.

MS. CELLA: Is here.

MR. MIXDORF: Is here. Ad STAOEUPB STAOEUPB

is Ms. Steiner. Burns burns is Mr. Warren burns.

Test test

test test start start start test test test test test start start start test test test test Mr. Beyer start start Mr. Beyer.

THE VIDEOGRAPHER: We are on the record. Here begins the videotape deposition of Dr. John Barry, being taken by the defendant. Today's date is March the 27th of 2008, the time is 9:21 a.m. Note TPHOEUT buyer. This deposition is being held at the law OFLS of Cohen & Malad located at One Indiana Square, Indianapolis, Indiana. This case is filed in the United States District Court, the Southern District of Indiana, Indianapolis Division. Cause No. 105CV000979SE approximate BJMS. This is the matter in re ready mix antitrust

Draft Copy

- 1 Q You can ask him the question the next time you talk
- 2 to him.
- 3 Q Did you to your the Shelby plants PHOET note TO*U
- 4 the Shelby plants?
- 5 A Only the Beech Grove plant.
- 6 Q Who did you tour the plant with?
- 7 A I think it was -- it's one of the Haehl brothers.
- 8 I don't remember the first fame.
- 9 O Richard Haehl?
- 10 A I don't -- as I said, I don't recall the first
- 11 name
- 12 Q Is he pretty knowledgeable about the ready-mixed
- 13 business?
- 14 A Well, the person who led the TAO*UR around the
- plant seemed to be knowledgeable about it.
- 16 (A discussion was held off the record.)
- 17 Q Did you see the portable plant sitting there on the
- 18 PWRO*E site?
- 19 A Yes.
- 20 Q And [NOTE Beech Grove.
- 21 Q And that portable plant was ready to go about
- anywhere they wanted to take it; right?
- 23 A If they had a profit making opportunity to do so.
- 24 Q Did you discuss with Mr. Haehl the circumstances
- 25 under which a portable plant would be useful to

fibber?

- A No. Central Soya, I do remember.
- Q All right.
- A They -- which was a grain facility, I don't recall where it was located, where where the grain facility was,
- and they were awaiting for another opportunity, if that came along.
- Q So they bought it to use for Central Soya for a job at Centra soya; right? Now you remember that?
- A I'm not sure they bought it for that specific purpose. They may have, but I recall.
- Q I see.?
- A From what he said, they bought it because the availability of that plant at the price that they had to pay for it was a good opportunity.
- Q So assuminging that his competitors knew that he had a portable plant sitting there in Beech Grove, that would be something they'd have to take into account when they were making bids back then; right?
- A Back then meaning.
- Q Since he had it.
- A During the alleged.
- Q Class period?
- A Period?

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- 1 compete with?
- 2 A I remember asking him a question of why they bought
- a plant, and then didn't use it, because as an
- 4 economist, that's an asset that's not producinging
- 5 any income.
- 6 Q Or hadn't used it yet. You mean they bought it and
- 7 didn't use it, just let it sit there? Was that
- 8 your understanding?
- 9 A That's what Mr. Haehl, I recall Mr. Haehl telling
- me. And he said two things: One, they were able
- to buy this plant at a very low cost. I don't know
- what the cost was, but that -- and it wasn't my
- business to know that anyhow. And secondly, that
- it would give Shelby an opportunity in the future
- to bid on contracts like your 15-story office
- building in the northwest corner of Boone County.
- 17 Q You have any notes of that conversation?
- 18 A No.
- 19 Q I didn't think so. I didn't see any in your file
- 20 either.
- 21 A I didn't have any.
- 22 Q So you don't remember that Mr. Haehl told you that
- 23 they had bought this to do a job, I believe for
- 24 Central Soya? He didn't tell you that or you don't
- 25 remember that? Or are you just calling him a

- Q Yes.
- A If you would be specific, back then, I don't know what you're talking about.
- Q Okay. Back when they had it. How's that?
- A If they had it then, and if there was no cartel, yes, it would would be a factor that various firms who would bed bying on a contract contract, large contract, would need to take into account.
- Q And under those same circumstances, they would have to take into account that Spurlino was ready, willing and able, based on a portable plant, to compete also during the class period.
 - MR. SHEVITZ: Object to form. Lack of foundation.
- A Spurlino is in a different situation because he is
- Q So your answer is yes or no. Could you answer me yes or no before you go on. I just want to figure out what he's going to do I'm wasting a lot of time listening to this guy?

MR. SHEVITZ: I'm remind of a deposition a couple WAOEPBGS ago when I had, you alerted me to a rule of law that you developed which was you couldn't demand the client answer a question yes or no and you're going to let him answer the questions

S*EPBZ test test test

THE VIDEOGRAPHER: We are back on record.

This is the beginning of volume No. 2 of the deposition of Dr. John Beyer, today's date is March the 28th of TWEUBLT. We're on the record at 9:08 a.m. The attorneys may state their appearance again for the record and you may begin.

MR. KELLEY: Richard Shevitz, Cohen & Malad for the plaintiff class Steiner, Hines millions and 0 SOL,.

MR. BURNS: , for the.

MR. LEVIN: Could had hen and Malad from the plaintiff class, Brian Hurley for Southfield formerly Prairie, Ed Harris, SPHOR bash in addition all Beaver defendants and Ma-Ri-Al -- Curtis Jones for the Builder's defendants,.

MS. WOODS: For the bids defendants,.

MR. MIXDORF: Mixdorf for the IMI defendants we also have Ed Steegmann on the phone and Paul Johnson, KHEL KHEL for the IMI defendants.

MR. KELLEY: Dan Kelley, IMI defendants.

MR. KELLEY: Is there anyone else on the phone besides those two?

MR. MIXDORF: Why don't you guys say something just could confirm.

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- Q And I believe you said that nine of the ten counties plus two others are in a metropolitan statistical area. Is that right?
- A Correct. At least as I recall from looking at it.
- Q So there's one county within the ten-county area in this case that's not in the same metropolitan statistical area as the nine others; is that right?
- A Yes. Monroe County is not part of the standard metropolitan statistical area, and I believe there are two other counties that are not part -- that are not -- that are in addition to the other nine counties.
- Q Are you familiar with the term component economic area?
- A Could you say that again.
- Q Are you familiar with the term component economic
- A I've not seen it. I guess I could infer what it means. I've not seen that term, no.
- Q How does the bureau of census determine which counties to include in a metropolitan statistical area?
- A The bureau -- the bureau -- census bureau has several techniques or criteria to determine whether -- how wide the geographic region of the

- following the price announcements?
- 2 A As of this date, no.
- 3 MR. KELLEY: Just a couple.
- Q Mr. Beyer, when did you get to town?
- A Let's see, basketball nights, I can define it --
- 6 Tuesday night.
- Q When did you send to Mr. Shevitz and Mr. Left
- SREUPB the documents that were the return to our
- 9 supplemental subpoena?
- 10 A Wednesday morning I gave most of the documents to
- him, and others came by e-mail that morning, were 11
- 12 already here.
- 13 MR. KELLEY: No further questions.
- 14 MR. SHEVITZ: Okay.
- 15 THE VIDEOGRAPHER: That completes volume two
- 16 of the deposition of Dr. John Beyer, tape 3 of 3,
- 17 we're off the record at K-BG 2:09.

- metropolitan statistical area is. Part of it is 1
- 2 commuting patterns and that is from census data, so
- 3 it changes very infrequently; part of it is from
- 4 other sources of information that the census bureau
- 5 has about economic interaction between the core of
- 6 the area, which would be Indianapolis, and the
- 7 immediate surroundinging counties and county in the
- 8 preferry. There may be a variety of other, but
- 9 basically it's to decide on the fringe of the area
- 10 which of the
- 11 counties have a sufficient level of
- 12 interaction that they should be incorporated as one
- 13 geographic area in looking at various types of
- 14 demographic and economic data.
- 15 MR. HURLEY: I don't have any other questions.
- 16 MS. WOODS: I have one omitted question.
- 17 Q Dr. Beyer, your mention of price announcements in
- 18 response to Mr. Harris' question reminded me that I
- 19 omitted to ask you, have you done any empirical
- 20 analysis with respect to any of the transaction
- 21 data in this case relative to any of the price
- 22 announcements?
- 23 A No. And.
- 24 Q And so you haven't done any analysis to determine
- 25 if there were, in fact, any increases in prices