

UNITED STATES FEDERAL COMMUNICATIONS COMMISSION

In re of:)
FEDERAL COMMUNICATIONS COMMISSION)
Public Hearing for 7th Annual CMRS)
Competition Report

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Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

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)
Public Hearing for 7th Annual CMRS
Competition Report

Room 303
445 12th Street
Washington, D.C.

Thursday,
February 28, 2002

The parties met, pursuant to the notice of the
Commission, at 1:00 p.m.

BEFORE: RACHEL KAZAN
Presiding Official

Branch Chief

APPEARANCES:

On behalf of Name of FCC:

JIM SCHLICHTING, Deputy Chief
DAVID FURTH, Senior Legal Advisor
CINDI SCHIEBER, Economist
Federal Communications Commission
Room 303
445 12th Street
Washington, D.C.

Panelist Appearances:

ROBERT ROCHE, Vice President for Policy
and Research
Cellular Telecommunications
and Internet Association

CHRIS MURRAY, Telecommunications Fellow
Consumers Union

Panelist Appearances: (cont'd)

GREG ROSSTON, Deputy Director
and Research Fellow
Stanford Institute for Economic
Policy and Research

MICHAEL REESE, Economist
Bureau of Labor Statistics

DAN GINSBURG, Supervisory Economist
Bureau of Labor Statistics

ADAM GUY, Senior Analyst
Mobile Wireless Research,
The Strategis Group

CHARLES MAHLA, Senior Economist
Econ One

KEN JOHNSON, Director
Legislative & Regulatory,
Rural Telecommunications Group

TERRY
ADDINGTON President
Rural Cellular Association

DOUG STEPHENS, Interim Chief Operating Officer
and Vice President for the
Central Region
Dobson Communications Corp.

MARK RUBIN Director of Federal Government
Affairs
Western Wireless Corporation

Hearing Began: 1:00 p.m. Hearing Ended: 4:30 p.m.

P R O C E E D I N G S

(1:00 p.m.)

1
2
3 MS. KAZAN: Hello, I'd like to welcome you to
4 today's public forum on data gathering for the
5 competition report. Before we start, I just want to do a
6 couple of housekeeping things. One of which is my
7 favorite announcement at the FCC, which is, if you have
8 cell phone or a pager, could you please turn it off in
9 this room so it won't disturb anybody.

10 The forum is structured so we'll have three
11 panels. What we'd like to do is, each of the panelist
12 will be giving you short presentations. If we can hold
13 all the questions to the end of the presentations, we'll
14 have a Question & Answer period afterwards.

15 In the middle of the room, there is a
16 microphone. So we'd like anybody who has questions from
17 the audience if you could get up and stand in line over
18 by the microphone, and we'll do those questions and
19 answers after all the presentations.

20 Anybody who does get to ask questions or wants
21 to make comments, we would love to get additional written
22 comments from anybody. We encourage those. We also
23 encourage you to e-mail them in because we're still
24 working with the radiated mail, and it's taking us a
25 very, very long time to get anything.

1 On the WTB website and on the satellite
2 communications website there is actually an e-mail to
3 send these into, which is CMRS7Report@FCC.gov. Any
4 comments and all the written comments we receive, we'll
5 also scan and it'll be on the WTB webpage so you can look
6 at them.

7 Between each of the three panels, we're going to
8 have a short break for about 10 minutes. We'd like to
9 keep it down to the 10 minutes. Restrooms are right out
10 that door, two hallways down.

11 The housekeeping being out of the way, I'd like
12 to introduce Jim Schlichting. Unfortunately, Tom Sugrue
13 couldn't be here today because he is out sick.

14 Jim Schlichting is the Wireless deputy bureau
15 chief in charge of policy in the Commercial Wireless
16 Division. Jim's been with the Commission since around
17 1985. He's been with the Wireless Bureau for almost
18 three years. He has a unique perspective on
19 telecommunications issues since he's worked both in wire
20 line and the wireless world. Jim?

21 MR. SCHLICHTING: Thank you, Rachel. I thank
22 you all for coming and also thank the experts and the
23 speakers who have volunteered their time and come to
24 speak before us. This is something that the Bureau is
25 trying new this year in the context of the preparation of

1 the annual CMRS competition report.

2 As most of you know, the Wireless Bureau is the
3 bureau charged with producing the draft annual commercial
4 radio service competition report, which the Commission is
5 charged by Section 332 of Act to preparing each year,
6 analyzing competitive marketing conditions with respect
7 to commercial, mobile radio services; including such
8 questions of whether or not there is effective
9 competition in the market.

10 Staff at the Bureau has worked hard for six
11 years. Now working on our seventh, to produce this
12 annual report. We're trying to think, each year, of ways
13 in which we can improve the information to be included in
14 this report because this report comes to be relied a lot,
15 both by the Commission and by folks outside the
16 Commission with regard to competitive conditions in the
17 CMRS marketplace.

18 This forum is intended to help us try to
19 determine whether there are other sources of information
20 or new ways of analyzing the information that we do
21 collect in the production of the upcoming annual CMRS
22 competition report. We're particularly interested in
23 under served areas on which we have not been able to get
24 as much information as we would have liked in the past.

25 So in the context of this forum, we're hoping

1 that the speakers and our folks would address such
2 questions as whether there are other useful techniques
3 for analyzing data that we currently present in the CMRS
4 competition report; whether there are other sources of
5 public information that should be included and considered
6 in the competition report; and how we ought to analyze
7 the quality of the information -- what it tells us and
8 the like.

9 We do have a special focus on how we can
10 determine the amount of CMRS services available in rural
11 or under served areas. A lot of the public information
12 we have right now is focused, generally, on CMRS service
13 provision served across the country. Some of the price
14 indexes and the like that are prepared tend to be done,
15 either on a nationwide basis or urban areas in
16 particular.

17 In the rural areas, we're very interested in
18 trying to figure out we can measure how markets are
19 performing in those rural areas; the number of
20 competitors that we have in the rural areas; the prices
21 that are available for consumers; the service quality;
22 the coverage; the features and options that are available
23 to consumers; and the level of subscribership in rural
24 areas.

25 So to the extent that this forum potentially

1 leads to helpful information or lead into trying to get
2 more information in those areas, it would be well
3 worthwhile of both the time of our people and the time of
4 the folks who have come to the Commission to help us out
5 with regard to that.

6 So with regard to that, I want to again thank
7 the experts who have come to help us this afternoon. I
8 will repeat Rachel in encouraging folks to provide any
9 additional information after the forum, or if there are
10 questions in the context of each of the panels to present
11 them. We look forward to all of this as we work on the
12 7th Annual Commercial Radio Competition Report.

13 Thank you very much.

14 MS. KAZAN: I'd just like to take another two or
15 three minutes just to highlight where we currently gather
16 data so everybody is on the same page on this. Also, how
17 we structured today's panels.

18 The first panel is suppose to be an overview
19 panel, more or less. The second concentrates on data
20 collection and analysis. And the third concentrates on
21 world with world representatives. In terms of producing
22 our annual wireless competition report, we rely on widely
23 available public information and also, a series of
24 subscriptions and reports, usually, free ones. Although,
25 sometimes we might purchase information or reports.

1 The widely available information we use include
2 such things as company FCC filings where we look at
3 operating and financial data; company websites and their
4 press release where we compile information regarding
5 world out of service and general news information. We're
6 constantly looking at telecommunications, financial sites
7 on the web, for example, we look at CTI site, including
8 their daily news site.

9 We use our own sources. We do use ULS, the
10 Universal Licensing System, where we'll look at build-out
11 filings by PCS carriers and cellular license areas shown
12 by the cellular licensees.

13 Examples of subscriptions and reports we use, we
14 use Wall Street analysts reports. We're on the list for
15 most of the major houses that also assist us in compiling
16 the operating and financial data. We do pick up reports
17 issued by the major telecommunications consulting firms.

18 We have representatives here today from Strategis and
19 Econ One.

20 We look at the different consulting company
21 reports for our market sector estimates, operating
22 financial data, and we also look at them often for
23 forecasts. We also have reports issued by the trade
24 associations. Of course, we look at the periodicals,
25 such as RCR, Wireless Week, TR Daily and Com Daily.

1 That's the basic places. We do have copies of the
2 previous two years competition reports in the back of the
3 room, if anyone would like to pick them up. Also, if you
4 look in the appendices is where we do all of the heavy-
5 duty data gathering and sources.

6 With this overview of what we collect, I'd to
7 introduce our two moderators for the day -- David Furth,
8 who is the senior legal advisor in the Wireless
9 Telecommunications Bureau will moderate the second panel.
10 And Cindi Schieber, who's an economist in the Auctions
11 and Industry Analysis Division, will moderate the first
12 and third panels.

13 Cindi, you want to introduce your speakers?

14 MS. SCHIEBER: We have three speakers on the
15 first panel today, which I want to introduce. Our first
16 speaker is Dr. Robert Roche. Dr. Roche is Vice
17 President for Policy and Research at the Cellular
18 Telecommunications and Internet Association, where he's
19 head CTIA's Research Department since January of 1993.
20 He's responsible for administering CTIA surveys and
21 providing research findings and background information
22 about the industry to the media, industry analyst
23 representatives of the government agencies and foreign
24 governments and businesses.

25 He co-authors CTIA's comprehensive semi-annual

1 report on the U.S. wireless industry and the new CTIA
2 insight series. He's going to highlight the data
3 gathered from the semi-annual survey, and also describe
4 the process by which the data is gathered.

5 Our second speaker is Chris Murray. Mr. Murray
6 is the internet and telecommunications counsel for
7 Consumers Union Washington office. Consumers Union is
8 the non-profit publisher of Consumer Reports magazine.

9 Before his position of counsel for Consumers
10 Union, he was a Ford Foundation fellow working on
11 broadband and other telecommunications issues for two
12 years. Mr. Murray also worked on broadband issues with
13 government relations firm Leslie Harris and Associates.

14 Mr. Murray will discuss the methodology used by
15 Consumers Union to prepare its reports, and he also plans
16 to address issues related to carrier self-reported data.

17 The final panel speaker is Dr. Greg Rosston.
18 He's the Deputy Director of the Stanford Institute for
19 Economic Policy Research, and he's a Research Fellow
20 there as well as a visiting lecturer in Economics at
21 Stanford. His research is focused on industrial
22 organization, anti-trust and regulation. He's written
23 numerous articles on competition in local
24 telecommunications, implementation of the Telecom Act of
25 1996, Auctions and Spectrum policy.

1 As many of you probably already know, prior to
2 joining the university, Dr. Rosston served as deputy
3 chief economist at the FCC. Dr. Rosston is going to
4 address issues related to government data gathering
5 initiatives, including a confidentiality and compared
6 data analysis in other industries.

7 And without further ado, Dr. Roche.

8 MR. ROCHE: Thank you very much. I'm going to
9 focus principally on the method that's been used in
10 generating CTIA's semi-annual survey results. And then,
11 quickly go through a series of slides after that, that
12 basically illustrate what that has derived or generated.

13 To explain, CTIA initiated a survey of the
14 facilities-based wireless licensees back in January 1985.

15 Since then, on a semi-annual basis, we have been
16 soliciting the results from the operational wireless
17 providers every six months. This has taken the form of
18 the survey, which we've sent out to each facilities-based
19 licensee for whom we have contact information.

20 We send out a request for the information as
21 well as a list which indicates the markets that we
22 understand they are the majority owners or operators of.

23 Now the method that we use by this is to determine the
24 actual operational carrier's response base. So, for
25 example, if knowing that there are 2,150 operational

1 systems across the nation, we send out the list for each
2 particular carrier -- United States, Cellular, Verizon,
3 RFD Cellular. These responses come back.

4 The actual data survey responses go to a third-
5 party accounting firm, which aggregates the data. The
6 listing of the markets comes to CTIA, which are annotated
7 to indicate whether or not there has been any change in
8 the ownership or operation of these markets. If carriers
9 acquire or divest markets, if they turn on markets, this
10 goes into the mix. We're able to determine which
11 companies and which systems have been reported for as
12 well as which have not.

13 It's important in interpreting and understanding
14 CTIA's data to know that we define these systems and
15 markets consistent with the FCC's licensing system. The
16 734 cellular market areas with their two licenses each.
17 The 493 BTAs with their four licenses each. Then the
18 overlaying MTA markets.

19 We ask each responding company to report for the
20 systems which they are, as I said, the majority owner or
21 the managing partner. This way, we don't have to
22 serially go out and try to collect data from each of the
23 limited partners. We don't get partial data. And we
24 also ensure that we don't get duplicative data. We know,
25 for example, that AT&T responds for "x" markets. That

1 Dobson's Cellular responds for "y" markets. And that
2 AT&T and Dobson, for example, do not both report for the
3 markets for which they are in partnership.

4 If we can look to the slides now, the survey
5 measures a set series of things. It looks to the number
6 to the number of active revenue-generating subscribers.
7 The revenues, which are generated by the services during
8 the 6-month period, we solicit the cumulative capital
9 investment, the average local monthly bill, direct
10 carrier employment, usage measurements, by which I mean
11 billable minute of use and billable calls.

12 (Slides shown.)

13 MR. ROCHE: There are a number of things,
14 however, which the survey does not track. This next
15 slide shows, for example, that we do not track the price
16 per minute. We do not track the cost per gross ad.
17 There are financial houses which track cost-per-gross ad.
18 There are a series of companies which have tracked price
19 information over time.

20 It's inappropriate for a trade association to do
21 so. But we're aware that the Yankee Group has tracked,
22 for example, a bundled price-per-minute. That Econ One
23 has been calculating prices for average packages
24 recently. Historically, Carol Hanson published a
25 cellular price newsletter through October of 1991.

1 Subsequently, Paul Kagan Associates in Carmel, California
2 also published a price index rate guide. All of these
3 were generated, by review, to my knowledge, of the actual
4 offerings of the operators.

5 It's something that we've never tracked. We've
6 not tracked prices. We haven't tracked actual operator
7 offering, such as the one-rate plans. We don't look to
8 carrier-specific data. We're trying to assemble a
9 portrait of the industry as a whole. And, therefore, we
10 have this process by which the carriers submit data,
11 under terms of confidentiality, to a third party
12 accounting firm, which aggregates the data, destroys the
13 underlying submissions after generating the aggregate
14 results. And no CTIA personnel, no persons other than
15 the principles of the accounting firm see any carrier-
16 specific data.

17 It's also important to know that when carriers
18 submit this data, to the extent that they are multi-
19 market operators who may operate MSAs and RSAs, MBTAs,
20 they submit a single, consolidated response. We don't
21 have separate RSA responses, MSAs responses and BTA
22 responses from these operators. The data comes in, in an
23 aggregate form. Nonetheless, the data which does come in
24 can be used to provide series of benchmarks for the
25 industry as a whole.

1 If we look to the next slide, for example, we
2 can see that, in connection with our subscriber figures,
3 we ask that company's report to us, their active revenue-
4 generating subscriber base. We ask that they report this
5 both at the beginning and the end of the survey period.
6 That way we exclude from this employee phones, non-
7 revenue-generating test phones and the like.

8 We also ask that these same companies report
9 their digital subscribership, beginning and ending. We
10 ask them to report the prepaid subscribership, beginning
11 and ending; and gross ads and disconnects. This, in
12 turn, allows us to determine an overall reported
13 subscriber base for the industry, which the next slide
14 shows.

15 By virtue of the fact that we have this check
16 off system, we're also able to determine what percentage
17 of the industry we've not heard from. We know which
18 specific markets or licenses have not been reported for,
19 we're able to look to third-party sources, either their
20 FCC filings or analysts reports, which identify some
21 specific carriers subscriber-base for some periods.

22 For others, we look to other analysts reports,
23 which use non-public data to generate subscriber
24 estimates for some companies. For the remaining small
25 markets, we look to similarly sized and aged systems to

1 determine a surrogate penetration rate for, say, some
2 particular set of RSAs. This allows us to generate,
3 then, an estimated wireless subscriber base as the next
4 slide shows.

5 Because we ask for this information cut in these
6 different ways -- the total subscriber base and the
7 prepaid and the digital base, we're actually able then to
8 derive and track information about, for example, the
9 transition of the marketplace from an all analog service
10 through one in which that, as of June 2001, for example,
11 77 percent of the reported subscribers were digital.
12 This is in the next slide.

13 Basically, you can look at that and see that in
14 1995 there were only just over a half million subscribers
15 who were digital. Whereas, by the end of last year, the
16 reported digital base was 85 million. It's important,
17 again, to know what's in the survey and what qualifies
18 within certain definitions. For example, the next slide
19 talks about what is in total service revenues as we've
20 tracked it.

21 Traditionally, total service revenues, which,
22 again, we established as a definition back in January of
23 1985, was composed of monthly usage charges, monthly
24 subscription charges, vertical services, if there were
25 charges for three-way calling and the like. It excluded,

1 however, toll. At that time, most carriers did not offer
2 it. And, indeed, some carriers could not offer it under
3 the terms of the MFJ. I maybe one of the few people left
4 here who actually remembers the MFJ from having been
5 intimately connected with it in a previous existence with
6 U.S. West and with AT&T during the divestiture case.

7 Nonetheless, by virtue of that, toll revenues
8 were traditionally excluded from this total service
9 revenue category. We have, since, begun tracking toll
10 revenues as a separate line item. Thus, it's possible
11 for us to say this is a total service revenue and here's
12 a grand total service revenue figure.

13 The next slide shows, actually, the graphic
14 presentation of the traditional definition of the total
15 service revenues that have been generated on a six-month
16 basis. Again, it's important to know what's in and
17 what's out of these are, indeed, service revenues.
18 Therefore, they're exclusive of the costs of equipment,
19 whether it's purchase, lease, repair, installation.
20 Those are completely outside of this. Also, excluded
21 from the revenues which we track were the end user
22 charges, which we track, are such things as taxes, the
23 excess tax, any pass through surcharges or the like.
24 It's purely service-related revenues that are at issue
25 here.

1 Again, we cut this information several ways.
2 Thus, we're able to say that there were \$30.9 billion in
3 total service revenues for the first six months of 2000,
4 as the next slide shows. There was another figure,
5 roughly \$1.9 billion of that \$30.9 million that was
6 roaming revenues. And, sequentially, we're able to go
7 through these other cuts -- how much was prepaid and how
8 much was toll.

9 We don't, however, break it down further
10 granually to say, okay, this is what the average
11 activation fee -- anything along those lines. We do,
12 however, calculate the average local monthly bill as a
13 surrogate for ARUP. Again, this is based upon the local
14 service revenues and the average subscribership for that
15 period. Obviously, being local, it excludes roaming,
16 toll and as I said before, the equipment and taxes and
17 other surcharges.

18 There are other measures of ARPU which, however
19 you may define it, may include roaming by some
20 calculations or toll. We've established, historically,
21 January 1985, this definition. It is what we've
22 consistently reported over time. We have included in the
23 indexes report that we now publish, a series of other
24 definition, using the data that has been provided to us
25 by the responding companies.

1 Knowing what's in or out of this is important
2 for understanding the information over time. It's also
3 important for understanding ARPU as compared between
4 carriers. We don't do such comparison, but we lay down
5 benchmarks that people can use. All I ask is that people
6 understand what is actually in the definitions of the
7 data that we provide.

8 We can flip through the next couple of slides
9 fairly quickly. Here's the actual graphic representation
10 of the average local monthly bill. Beyond that, we track
11 things as cumulative capital investment. This is
12 investment in the systems used to provide the service.
13 We actually capture this in three different ways. We ask
14 for a total capital investment, network and non-network
15 capital investment. This is exclusive of the costs of
16 licenses however they were acquired, whether through the
17 public auctions, private auctions or other transactions.

18 It also excludes intangibles. But it does help
19 us portray the investment in the industry overall as the
20 next slide will show. Basically, 99 plus billion dollars
21 as of June of last year.

22 We also track the actual number of cell sites
23 that are operational as of the end of the period of time
24 so you can see what the actual build out has been in
25 terms of the networks. We don't have actual geographic

1 coverage of the United States, but we do collect the data
2 to indicate there are "x" number of cell sites. We went
3 from 17,000 cell sites in 1995, for example, up to
4 something on the order of 114,000, and a handful, as of
5 June of last year.

6 Using this data, as the next slide can show, we
7 can actually break the data against each other so you can
8 see what the relative trends have been in terms of
9 subscriber additions, reported subscriber and the
10 reported cell sites. You can see where there have been
11 discontinuities and you can use this to actually
12 calculate an average for the industry as to subscribers
13 per cell site, which is roughly 1100 at this point.

14 We can flip through the next couple of slides as
15 well. As I said, we track the usage. The average
16 minutes of use can be calculated by the reported
17 subscriber figures and the reported minutes figures.
18 This allows you to say basically, we've gone from 122
19 minutes a month in June of '97 to 320 minutes a month for
20 June of 2001. This also allows us, as this graphic
21 shows, how the industry overall has grown from 13.6
22 billion minutes for all of 1992 to a total of 259 billion
23 as of the Year 2000.

24 For the first half of 2001, we were already up
25 at 197 billion minutes. This will be on the next slide

1 where you can see the tracking of the actual subscribers
2 and the minutes that have been reported to us. Beyond
3 this, we also track not only the subscriptions, but the
4 direct carrier employment for these companies. We don't
5 track the non-facilities based companies. We don't track
6 the number of agents for the companies, but we do look
7 for direct carrier employment. This can lend itself to
8 the calculation of a number of related ratios, whether
9 it's subscribers per employee, revenue per employee or
10 the like. The next graphic just illustrates the recorded
11 employment number.

12 Using this data, though, since January 1985,
13 we've assembled a fairly good data series. Typically,
14 we've captured 85 percent of the operational systems. I
15 think that the high that we achieved was 92 percent.
16 Sometimes carriers or their systems drop out as a result
17 of transactions, but we seek to recapture these.

18 We seek to build a consistent and reliable data
19 set that people can use for analysis, whether it's the
20 FCC, the carriers themselves or the financial community.

21 We believe that getting the best data out there is the
22 best way to generate a whole and accurate picture of the
23 industry.

24 Thank you.

25 MR. MURRAY: Thank you for having me here today.

1 I'll speak to you from two points of distinct
2 disadvantage. The first is, by being the youngest member
3 of the panel, by both inference and probably fact, I have
4 least knowledge of anyone here. The second is I don't
5 have Power Point slides. So I'll try to keep you awake by
6 being a little provocative.

7 As was mentioned, I work for Consumers Union,
8 the people who publish Consumer Reports magazine. We've
9 been very interested in wireless services now -- for more
10 than a few years. The basic mission at Consumer's Union
11 is a simple one. We test products. We provide the best
12 information to consumers that we possibly can. That, we
13 believe, helps the marketplace to work better.

14 The FCC's congressional mandate here to
15 determine whether there is meaningful competition in the
16 wireless marketplace is truly a Herculean assignment.
17 It's an enormous task and I commend the Commission for
18 the job that it's been doing so far.

19 Nonetheless, I'd like to take a few minutes and
20 ask the question, are there ways we could be
21 methodologically more rigorous as we do the annual
22 competition report. I'd like to do so by examining some
23 of the methods that we use at Consumer's Union to test
24 products.

25 We have a sort of methodological bible that we

1 use. Let me just share a couple of examples from that.
2 First, whenever possible, we try to gather our own data.
3 We try not to rely on data provided by industry. If
4 industry sends us a product, we send it back. Sometimes
5 it's not possible to simply gather independent data, and
6 we do have to rely on industry data. When we do so, we
7 always try to verify it independently.

8 If we're looking at cell phones, rather than
9 just whip out the manufacturer's spec sheet and print
10 that to our subscribers, we get out the calipers. We
11 test the size of the screen. We test the length of
12 battery life. If we're testing cordless phones, we
13 actually do range measurements. This is obviously an
14 expensive process. It's very labor-intensive, but we
15 also believe it's the best way to get accurate data.

16 Second, we always try to get as detailed data as
17 we possibly can. If we're looking at automobiles, we
18 gather 150 to 200 pieces of information on each car
19 before we even get it onto the track.

20 Third, we test a wide variety of products and
21 services in a wide variety of markets using a wide
22 variety of methods. If we're looking at customer
23 satisfaction for, say, cable television and satellite
24 services, we go to rural markets. We go to urban
25 markets. We look at people with high income. We look at

1 people with lower incomes and we try to account for the
2 ability of individual or companies to give us self-
3 serving claims.

4 If we ask questions of people, we'll try and ask
5 a question in several different ways. We don't
6 necessarily look at the sort of total picture of the
7 answer first. We look at the nuances of their answers
8 first. Then we look at the whole picture of the data and
9 try to discount any self-serving claims.

10 Fourth, whenever possible, we try to talk
11 directly to consumers. If we're testing hotels, for
12 instances, and doing a product on hotel services, we
13 don't necessarily call up the 10 leading hotel chains in
14 the country and say, could you tell us, please, how you
15 serve your subscribers? Are you guys doing a good job.
16 We go to the people who have been to those hotels, and we
17 ask them a lot of detail questions about their stay. We
18 try to account for what mood they might have been in that
19 day. If there was any other events going on in their
20 lives. We really try to drill down into what's really
21 going on there.

22 If we're comparing, say, hotels, again, we
23 wouldn't do the Ritz Carlton and the Motel 6 in the same
24 report. We would do one report for business travelers.
25 We would do one report for families and people who are

1 not going to spend \$500 a night.

2 The fifth and final key issue is, I would like
3 to say, that when we present the results of our studies,
4 we always try to say where the data are from and what the
5 data are not. If we're looking at the frequency of
6 repair of a particular product, we note that it's for
7 brand and not -- rather that it's for model -- I had it
8 right the first time. It's for brand and not model. We
9 just feel that it's critical to try and put into
10 perspective the limits of the data that we have.

11 With those principles in mind, I'll take a quick
12 look at how I think the report might be able to be a
13 little bit more methodologically incisive. The first,
14 and one of the most important things I'd like to suggest,
15 is that I don't think the Commission can rely on the
16 presence of multiple carriers in a part of a market as a
17 proxy for competition in that marketplace.

18 You can't say that because there are three or
19 five or six carriers in a county that everyone in that
20 county has access to three or five or six carriers. If
21 we did that same analysis for cable television, it would
22 give us obvious results. If you look at most counties in
23 the nation, there are probably two or three different
24 cable providers. Yet, that's not reality. We know that
25 for most people, they have one cable provider. Less than

1 one percent of all Americans have choice in cable
2 television services.

3 I'm not suggesting that the wireless marketplace
4 is as concentrated as cable. It's not. I also see where
5 that analogy falls down because the signal of a cable
6 wire, if you will, is limited to that cable wire. It
7 doesn't extend beyond that. You can't get it on wireless
8 frequencies. But, nonetheless, I think the analogy does
9 make the point that you just can't look at competition in
10 a part of a county and say there is competition for all
11 the consumers in that county.

12 Second, the report seems to assume that since
13 usage is going up, that is a good indicator of
14 competition. We should remember that, under AT&T, pre-
15 MFJ, it was a monopoly and usage consistently went up.
16 Usage increase doesn't necessarily indicate competition.

17 Third, I would like to see the report look at
18 coverage in a more granule way in particular markets.
19 For instance, if we really wanted to look at who's
20 providing coverage, we could do what the cellular
21 industry does. We could hire TELEFIA to do drive tests.

22 They look at a road route that covers 90 percent of a
23 particular MSA and they'll drive it and they'll see where
24 there is dropped calls. They'll do some voice quality
25 measurements, et cetera.

1 The Commission could hire TELEFIA to do those
2 surveys, or even better, the Commission could do that
3 itself. It could, perhaps, get Congress to get the
4 National Research Council to do this. At Consumer
5 Reports, we did a cost study to actually try and do this
6 ourselves because we thought it would be incredibly
7 valuable information to consumers.

8 We determined that with a full-time staff of
9 about 10 with three or four people that were willing to
10 live in permanent roam mode, that we could do that. It's
11 not a billions of dollars proposition. It's not a
12 millions of dollars proposition, and it would be
13 incredibly incisive and valuable to look at these markets
14 on the basis of whose competing where.

15 As I indicated, I think the report could drill a
16 little bit deeper into competition by examining the
17 differences between business and residential users.
18 Nextel may have some very valuable services for, say,
19 their instance group conferencing functions, even if it's
20 a little bit expensive. Leap Wireless may have some
21 outstanding flat rate local billing plans, but it's sort
22 of a laughable proposition to suggest that these two
23 services are competing against each other for the same
24 consumers in the same marketplaces.

25 As I was saying, I think that the meaningful

1 competition part of the congressional mandate is very
2 important. We're not suppose to look at just
3 competition. We need to look at where that competition
4 is meaningful.

5 Another example where I think the report could
6 parse the data a little bit more finely is where it
7 dismisses a rise in average revenue per unit of 15
8 percent over the last two years as attributable to a rise
9 of usable minutes. That may be correct, and I'm not
10 saying that's not correct. I'm just saying that we don't
11 really necessarily know that. I don't think we've parsed
12 it finely enough to tell if that's correct.

13 There is one study that's cited for that
14 proposition. But, again, it's an investment analyst
15 survey. We don't necessarily know what their interest
16 may be in the matter. I would suggest that it would be
17 very useful, for examining meaningful competition, if the
18 Commission took a stab at establishing a definition of
19 what a usable minute is. I would suggest that is a
20 minute, for me as a consumer, somewhere between 8:00 a.m.
21 and 9:00 p.m. at night that covers me if I'm at home and
22 I'm at work.

23 I would love for the competition report to see
24 what prices are doing in that particular nitch. We've
25 seen that, perhaps, this rise in ARPU is attributable to

1 that ever-expanding bucket of peak minutes, or rather the
2 ever-expanding definition of peak minutes.

3 We know that the carriers recently extended peak
4 from 8:00 o'clock to 9:00 o'clock, which might use 6000
5 per month minute buckets. It maybe useful to me if I'm
6 an insomniac with a lot of friends in Tagedkastan
7 (phonetic), but I don't know if they're an accurate
8 measure of what's going on.

9 I think that, and pardon me if I do one quick
10 side bar on this, but way in which the minutes expanded
11 sort of all at once with all the carriers from 8:00 p.m.
12 to 9:00 p.m. was interesting. I know I'm not suppose to
13 do policy here, but the last time I checked, a lot of --
14 a handful of producers making similar decisions in the
15 marketplace all at once, I thought I remember -- I'm not
16 an economist. I'll have to defer to our economist here,
17 but I thought was Oligopula (phonetic) behavior. I
18 digress.

19 Whenever possible, again, to reiterate, I think
20 the Commission should not rely on data from industry. It
21 should gather data independently as much as possible. I
22 appreciate that the wireless industry does have the best
23 data out there, but we need to account for the obvious
24 incentives on behalf of industry to paint an overly rosy,
25 overly competitive picture.

1 Plus, if we're going to rely on industry data,
2 let's get the really good stuff. Let's get the coverage
3 study that they're doing to find holes in their networks,
4 et cetera.

5 I'll skip a bit. Again, I don't want to suggest
6 that these data are wrong. I don't want to suggest that
7 the Commission as done a woefully inadequate job here. I
8 would just like to suggest that we need to a better job
9 of accounting for incentives.

10 The final thing I would like to say is that the
11 report needs to establish a baseline. It needs to
12 establish a quantifiable, numerical threshold for where
13 competition ends. One job of the report is to establish
14 the current state of the marketplace, but I think another
15 very important job is to say is there a point at which
16 this market is no longer competitive at which it might be
17 appropriate for the Commission to intervene at some
18 level. I think we need to do that with HHI data.

19 I know that, traditionally, that hasn't been
20 used for reason that I don't necessarily understand the
21 nuances of. I'm not even sure whether it's worst to rely
22 on bad HHI data, as I think the Commission did in the
23 Spectrum Cap proceeding, where we used Spectrum
24 allocation as a proxy for market share when that put Next
25 Way and Verizon on parity in many or even most markets.

1 I think we can see that there are some holes in that.
2 But, nonetheless, I think we should try to use HHIs and
3 try to do a very granule assessment of this marketplace.

4 To sum up, either the Commission should figure
5 out a way to do this. It should ask Congress to
6 commission the National Research Council to do this or we
7 should admit that there are some inadequacies in the
8 data. That we haven't necessarily painted a wide enough,
9 diverse enough picture.

10 The report is, again, not just about assessing
11 the current state of competition, but it's about laying
12 down a baseline for which we can say at certain point,
13 okay, maybe this has become too consolidated. I would
14 humbly suggest that the methodology that we've used could
15 be a bit more finely tuned and, perhaps, using some of
16 the techniques that Consumer Report uses and that other
17 folks use might be helpful.

18 As I said, though, this is a Herculean task and
19 I really do commend the Commission for the tremendous job
20 that it's done so far.

21 Thank you.

22 MR. ROSSTON: I come at this from a somewhat
23 different background as an academic research trying to
24 think about what data would be useful for me to
25 characterize an industry and think about what's going on.

1 The previous two speakers, one talked about a
2 great wealth of industry data that they have, and the
3 second said the FCC should gather its own data. I think
4 they're both right. I think this is -- in reading the
5 competition report, this is something where there could
6 be more data brought to bear on issues and setting up a
7 framework for analysis of current and future questions.
8 How the FCC thinks about it should -- the FCC should take
9 a step back and say, what are the kinds of questions that
10 we want to answer and that should dictate the kind of
11 data that we should be, either getting from industry or
12 gathering ourselves in trying to figure out how we go
13 about this.

14 So what I wanted to do was to talk a little bit
15 about data, and then, think about a framework about this.

16 Gathering data is a big task, and the FCC has done a lot
17 of getting industry data. I found, in thinking about
18 this, one of the things you want, if you're going to take
19 a set of data, is you want a consistent set of data that
20 you can know exactly what's going into it, exactly how
21 it's done, and understand all the frameworks of it and
22 also be able to rely on it.

23 One of the interesting quotes from the
24 Competition Report was talking about different studies.
25 They said,

1 "Because these studies use different methodologies in
2 mark-up samples, their findings vary and are comparable
3 in only the broadest terms." Well, that makes it
4 difficult for the FCC to make findings about things if
5 these things are not comparable and not consistent across
6 time. It sort of says, well, maybe some questions we can
7 answer with a data set that is consistent over time. But
8 others, maybe the FCC should actually proactively go
9 ahead and gather its own data and try and figure it out.

10 For example, I noticed in the CTIA slides, there
11 was a point where the average local bill has been coming
12 down, coming down, and then kicked up in the last two or
13 three data points. One argument was it an increasing
14 number of minutes. Another maybe that, well, this local
15 bill may include a lot of the digital one rate plans or
16 something like that. Understanding exactly what goes
17 into that is probably pretty important to the ability to
18 use that data. So trying to think about how you get a
19 consistent set of data is really important.

20 As a researcher, I loved to have the FCC go out
21 and gather a lot of data. In thinking about what kinds
22 of data to gather, I talked to some other people who
23 studied different industries, and wanted to find out what
24 happens in other industries. I thought that might be
25 useful for thinking about what a regulatory agency could

1 do. I'm not saying "should" yet, but to think about data
2 gathering.

3 When I was at the FCC, we started this
4 competition report and the industry was not happy about
5 the FCC doing this survey or making reports to the FCC of
6 data. When airlines were deregulated, well, they were
7 deregulated, but they still report a huge amount of
8 information to the Department of Transportation.

9 The Department of Transportation has data on
10 every flight on a monthly basis as to the quantity of
11 seats, the revenue of the seats on each flight for every
12 city pair. They also require the airlines to provide a
13 10 percent sample of the tickets. So you know 10 percent
14 of all the tickets that come in, you can go, as a
15 researcher, or as the Department of Transportation,
16 analyzing the merger in airline has a huge amount of
17 data. They know 10 percent of the people who flew from
18 Boston to Washington, and 10 percent of the people who
19 flew from Boston to Chicago. They have their tickets.
20 They know the fares. They know exactly what was paid,
21 where these people went and how they -- with 10 percent
22 sampling, you're pretty confident in what's going on. So
23 they gather a lot of data.

24 Electricity -- the electricity provider
25 generators are being deregulated. Probably to

1 California's chagrin, I think, but they've been
2 deregulated. They still have to report their fuel usage,
3 their generation, their outages, other data on what they
4 do; but they still report this. So there is a sort of
5 precedent and places for other regulatory agencies
6 overseeing relatively somewhat deregulated industries
7 that they actually gather data.

8 From what I could see, in reading through the
9 FCC's Competition Report, the actual data that is
10 reported to the FCC seems to me to be limited to data
11 that was part of the local competition report, not part
12 of the wireless competition report. I assume that there
13 will be other data that could be teased out of the
14 universal service filings as well because carriers are
15 required to report for universal service fees.

16 There seems to me that, in my dream world as an
17 economist, as a researcher, I would love to have data
18 that is much more granule than what CTIA reports. There
19 is a lot of benefit to the information that is already
20 out there that everybody provides, and you can do a lot
21 with it. There's just a lot more that you could do if
22 you had data on a market-by-market basis.

23 I realize when I say "market-by-market basis,"
24 I'm getting away from the problem of is a market an MSA,
25 an MTA, a county or whatever it is; but you still would

1 like to know -- you're going to hear later on from Econ
2 One about pricing data that they do for, I think, 25
3 markets, where they collect and then they try and figure
4 out what's happened to prices for various numbers of
5 minutes in different markets and how that change is on a
6 month-to-month basis. This is great, but it's limited to
7 25 markets. It's useful but it also doesn't give
8 quantity information. You'd like to know what people are
9 buying if you were going to do a real supply/demand study
10 and try and figure out what's going on to be able to
11 compare a cost market.

12 One might think what is the FCC going to use
13 this information for? Well, I would imagine it would be
14 removal of the Spectrum Cap that there would be mergers
15 that the FCC has to evaluate. It maybe possible to do it
16 without this data, but with this kind of data, the FCC
17 might be able to build a time series and cross-sectional
18 data set that could be used to evaluate the impact of
19 mergers in different markets and understand what's going
20 on.

21 So there are other reasons that the FCC may want
22 to gather data on wireless. For example, I've long
23 advocated a much more hands-off approach to Spectrum
24 policy. But the problem is, is the FCC is not doing
25 that, and unlikely to do that for a long time. There are

1 still going to be satellite guys who want Spectrum or
2 there are going to be rules about -- the FCC has to set
3 initial rules on interference and understand what's going
4 on.

5 Well, that essentially forces the Commission to
6 make allocation decisions. Having data to know what the
7 value of different services would help the Commission
8 figure out some of these policy decisions. Should it
9 allocate more Spectrum to satellites or less.

10 Now I've sort of talked a lot about the benefits
11 of collecting data. There are costs to collecting data
12 as well, and that's an important thing for the FCC to
13 consider. We heard about the costs of having people
14 actually go out and physically collect the data on
15 coverage. Well, that's just one cost. There is the
16 direct costs of actually having the companies gather and
17 report that data. We've seen that for 85 percent of the
18 companies, at least in aggregated form, they already
19 present some of the data for CTIA's survey.

20 This is something the FCC should figure out.
21 Does it costs a lot for the industry to gather this data
22 on quantities, prices, and other things that has to be
23 reported. Also, questions about confidentiality and
24 whether this would be or could be used anti-
25 competitively. There was lots of talk about tariffs.

1 MCI wanted to continue filing tariffs on long distance.
2 Some people said, well, wait a minute, though, the use of
3 filing tariffs on long distance has allowed tactic
4 collusion because you're basically announcing your prices
5 to your competitors and enforcement mechanisms. Is this
6 going to be a problem? That could be a possible cost.

7 So the question you have to understand, what can
8 it do to keep data confidential and should it keep data
9 confidential and use it internally. And if it does keep
10 it confidential, can it use it in making decisions or
11 not. There is also a philosophical cost of this, which
12 is, is this a deregulated industry and are we collecting
13 data on a deregulated industry and is that the position
14 of the government?

15 In order to answer these questions, we need to
16 find out what are these costs and understand how this
17 data might be used. So what I would hope is that the FCC
18 would try to figure out how they could put together a
19 clear and consistent data set on relevant variables like
20 prices, quantities that could be used to inform these
21 decisions that the FCC is going to have to make in the
22 future.

23 I last just wanted to address the rural area
24 question a little bit. One of the things is Econ One
25 does the top 25 markets and it's in their interest to do

1 something that looks at a large fraction of subscribers.

2 Strategis Group and others probably also focus on where
3 the money is, where the subscribers are. So the FCC may
4 have to be more proactive in doing things in rural areas
5 if they want to get data.

6 On the other hand, they also, in terms of
7 burdens on small, rural areas may be served
8 disproportionately by small companies, and the burden on
9 the companies of providing data may be great as well. So
10 the Commission should worry about the costs as well. So
11 I think I'll end on that note.

12 MS. KAZAN: Thank you very much. We appreciate
13 the information you've provided.

14 If we don't have anybody standing, waiting to
15 ask a question, I'd think I'd at least like to start.

16 Chris, you'd mentioned this idea of getting out
17 and collecting the data yourself, driving the routes,
18 that sort of idea, which, of course, is time-consuming,
19 very costly. But I'd also be interested in some
20 understanding -- I know this gets to what are we trying
21 to collect, but what do you consider when you try and
22 determine what routes to even go out to? How do you get
23 a handle around that to make it a manageable beginning?
24 I know some of that gets to Greg, what do you want to
25 get?

1 MR. MURRAY: Well, I would think that by using
2 the same sort of sampling techniques that you would use
3 on any data set, you could do the same thing. You could
4 do it by sample zip codes. You don't necessarily need to
5 determine in every market across the country is there
6 competition. But if we took a solid sampling of rural
7 markets, urban markets, suburban markets and saw how are
8 they assessed. That there are three or five or six
9 carriers in most of these markets is standing up to the
10 truth test.

11 MR. ROSSTON: Also, in answering in that
12 question, it depends on what your goal is. Is your goal
13 to find out whether people have coverage or whether
14 people have effective competition? And it maybe the case
15 that my house only has one wireless carrier that provides
16 service to my house. But because I live near an area
17 where there are lots of wireless competition and I buy my
18 service from them, it could be I actually don't pay a
19 higher price.

20 But, on the other hand, there maybe less
21 competition actually at another cell site. So I may get
22 blocked more. So it depends on what you're thinking
23 about in terms of how do you decide where to go and what
24 effect it is.

25 MR. ROCHE: I think that there is one thing that

1 should be kept in mind when doing this, which is, though
2 we're awfully accustomed to how quickly things have grown,
3 the wireless industry is only, in fact, 18 years old.
4 And that, during that time frame, we've gone from having
5 to, indeed, nine licenses per market. I'm not saying
6 there are nine active licensees in every market, but
7 that, in fact, we're in the period of build out and
8 growth. That we're actually really at the beginnings of
9 things.

10 If you look at the wire line industry, at this
11 same point in time, really they were just reaching the
12 end of the patent monologue. They had less than half a
13 percent penetration of the entire country. At this
14 point, we're at 45 percent penetration of the population.

15 Measures of competition, whether it's meaningful
16 competition, effective competition, can't really be
17 reduced to a strict number. You can't use something like
18 an HHI as a thermometer to take a temperature and say,
19 aha, you're below effective competition. You're just on
20 the verge of meaningful competition.

21 This really is something that's a moving target.

22 It's an evolving target, not only among the providers,
23 but in the minds of the public that are adopting these
24 services and using these services. They're looking at
25 these, not just as competition within the wireless

1 industry, but competition with wireless precedent,
2 parent, the wire line industry. As we saw a couple of
3 weeks ago, 18 percent of wireless users see their
4 wireless phone as being their primary phone.

5 Again, we're in an evolving market. We need to
6 be careful the measures we develop, which -- I have an
7 academic background on my own. Things I would love to
8 know in the academic sense, they're not appropriate for
9 me to know in my role at a trade association. But also,
10 they can sometimes threaten to bound and limit the ways
11 in which the industry may develop and competitive
12 benefits actually be experienced by consumers. We need
13 to be careful that how we define things don't limit our
14 choices.

15 AUDIENCE: If the three of you were doing an
16 academic paper for a peer review journal on the question
17 of what the nature of competition in the CMRS market is,
18 what information, other than what we have in the CMRS
19 report would you feel is absolutely necessary before you
20 would put your repetition before a peer review journal?
21 Not thinking about resources at this time because I think
22 that's kind of a separate question.

23 If we have information, do you think aggregated
24 information, self-reported data, information about total
25 revenue, total subscribers, information about carrier

1 employment or carrier revenue is enough to add up to a
2 conclusion that we have the data that's necessary to say
3 in an academic peer review paper that there is
4 competition or there is not competition or that we just
5 don't have enough information to know either way?

6 MR. ROCHE: Well, I'm not sure whether I want to
7 defer to the current academic. One of the things I was
8 going to suggest is these are all components, whether
9 we're talking about the carrier reported data, the trade
10 association gathered data, the information from the third
11 party consultants and the like, the actual carrier data
12 that's published on their websites -- for example, this
13 folder here is just some of the rural carriers websites
14 that I just started to surf through in the last couple of
15 days.

16 I think all of these things could probably be
17 combined if I were to do something like a structure-
18 conduct performance review in a paper. They can all go
19 together to form sort of a mosaic illustrating the
20 structure and conduct and performance of the wireless
21 industry.

22 It's something, again, and I hate to use the
23 term "evolving," but it's something we need to recognize
24 as dynamic; and is created and needs to be constantly
25 recreated.

1 MR. MURRAY: Maybe I'll just follow up on that
2 point. I absolutely agree that this is a dynamic
3 marketplace. The limitation of the report is it's just a
4 snapshot of this point in history. But, nonetheless,
5 it's really important for us to remember the ways in
6 which this report is used in policy-making decision.

7 It's relied on, for instance, in the Spectrum
8 Cap decision, basically, the combination of the HHIs they
9 did and indications from this report that this is a
10 competitive marketplace allowed us to get rid of Spectrum
11 Caps, which at Consumer's Union, we think, were a very
12 important component of allowing this marketplace to
13 develop as it did in a vigorously competitive way. The
14 way in which we allocated licenses ensured that there
15 were at least four players in every market, or
16 theoretically could be.

17 I guess, for the question of what I would put
18 into a peer reviewed article, to determine that, I would
19 definitely I will defer to the academic on that one. I
20 guess my point is I don't think we're quite there yet
21 with the limited, I think, not nuanced cut we've taken at
22 pricing, for instance. Well, I'll just defer to Greg.

23 MR. ROSSTON: I think there is a different
24 standard for academic reviews and things -- for academic
25 papers, obviously. In top economic journals, they look

1 for a lot more for techniques and things. But I think
2 there's a lot of data available that indicates
3 competition. But if I were doing something, I would love
4 to have more data to be more sure about what you could do
5 with this.

6 When I did research on my dissertation on the
7 cellular industry, I went and actually gathered market-
8 by-market data on prices and quantities of subscribers.
9 I think that helped a lot in trying to understand what
10 was going on in the cellular industry thing. If I were
11 writing something, that's the kind of information I would
12 try to get if I were trying to write an academic article
13 on this, trying to look at how markets differ.

14 It's, for example, possible that you could see
15 are there differences where there are markets with three
16 carriers versus five carriers. Those kinds of things to
17 see what the differences might make with the different
18 carriers, trying to figure out -- it's kind of tough to
19 use something like a learner index in an industry like
20 this because you're going to have positive price cost
21 margins in this industry because you have fixed costs
22 that you have to recover and keep investing in, in this
23 industry.

24 But those are the kinds of data you would like
25 to gather in order to make a really strong conclusion.

1 But given what you have, I think you can still look at
2 some of the structure and data on customer turn, on
3 pricing and make some inferences that may not make it
4 into American Economic Review, but might allow you to get
5 something that would be in a peer reviewed academic
6 journal.

7 MS. KAZAN: I think we're about out of time. We
8 can do some questions certainly during the break. I want
9 to thank all the speakers for coming, and we'll come back
10 at about 2:20 p.m.

11 (Whereupon, a recess was taken at 2:10)

12 MR. FURTH: Let me start with our second panel.
13 I'm David Furth. I'm the senior legal advisor in the
14 Wireless Bureau. This panel will focus on industry
15 research and data analysis. We're going to be looking at
16 some of the ways that government and industry compile
17 data about the wireless market and the conclusions that
18 can and, perhaps, more importantly, cannot always be
19 drawn from that data.

20 As a famous writer once said, "There are lie,
21 damn lies and statistics." Hopefully, we'll be able to
22 cut through some of the fog that often surrounds the use
23 of statistics in policy debates and generate some
24 discussion about the value of the data that we collect,
25 how to make the best use of that data in a policy arena

1 and whether there is other data collection and analysis
2 that we should be thinking about. I think this is a good
3 follow on from the last panel, which really started to
4 bring those issues into relief.

5 On this panel, we've brought together a diverse
6 group of professionals who spend their time looking at
7 the wireless industry. First, two gentlemen from the
8 Bureau of Labor Statistics at the Department of Labor,
9 Dan Ginsberg and Mike Reese. Dan is a supervisory
10 economist at the Bureau. He's worked there for 40 years.
11 He has a business degree from the Boston University
12 College of Business Administration, which I gather is now
13 called the School of Management. That's what it was
14 called back then.

15 Mike is also an economist and analyst at BLS.
16 He's been there 16 years. What they're going to talk
17 about is the process by which BLS calculates the consumer
18 price index for wireless services, which is something
19 they've been doing for the last couple of years.

20 Then we have Adam Guy from the Strategis Group.
21 Adam is a senior analyst for Mobile Wireless Research at
22 the Strategis Group. He graduated from the University of
23 North Carolina. He has an MBA from American University.
24 He's worked on numerous projects relating to wireless,
25 including studies of the team wireless market and Next

1 Generation mobile products and services.

2 Finally, we have Chip Mahla, who has joined us
3 from California. He's a Ph.D. economist. I don't know
4 whether I should call him Chip or Dr. Mahla. He works at
5 Econ One Research in Sacramento. He's also done
6 extensive market analysis of the wireless industry. He
7 has a BA from Lafayette College, and his Ph.D. in
8 Economics is from UNC Chapel Hill.

9 He is well-known monthly surveys that he and
10 Econ One conduct of over 2000 wireless service plans that
11 are offered in selected markets across the United States.

12 As with the last panel, I'm going to ask each of
13 our panelist to talk in turn. And then, at the end,
14 we'll have some time for questions.

15 So I'll turn it over to Dan and Mike.

16 MR. REESE: Thank you. I'm Mike. Dan, my
17 supervisor, over at the Consumer Price Index, basically,
18 we want to go into how we are pricing wireless here. I
19 want to start this out by prefacing we will try to be as
20 kind to you as possible today. Both of us have been
21 introduced at past seminars as the bald brothers. We
22 will try not to bend over too far because of the lights.

23 I really don't want to blind anybody.

24 Basically, in the Consumer Price Index, we have
25 been pricing the cellular telephone component for only a

1 little over four years. The beginning of 1998 is the
2 beginning of the pricing of this CPI for cellular
3 services. We also include in the CPI the pricing of long
4 distance services and the pricing of local telephone
5 services. These have been in the CPI for a much longer
6 period of time.

7 If we can put our very first slide on, I want to
8 go ahead. The first slides gives an internet address.
9 Many people do not know that we have an internet address
10 where data is available for the CPI. We're frequently
11 getting phone callers. So I want to leave this slide up
12 in case you want to copy this down. It's also on the
13 back table.

14 This is the address that has data from the
15 Consumer Price Index. It is part of an overall Bureau of
16 Labor strategic website. This is going to have a good
17 deal of information on the CPI. Not only for telephone
18 wireless services, but it's going to have it for just
19 about any kind of item in the CPI, whether it be for
20 foods, durables, non-durables, apparel. We're going to
21 have a lot of information, a lot of data can be gathered
22 from this site. A lot of the numbers that we put out
23 maybe obtained from this site.

24 Specifically, I want to point people to the very
25 bottom of the site. When they get onto this site,

1 they're going to find some information, which we refer to
2 as fact sheets. There are 17 fact sheets in total, and
3 one of these is entitled "How BLS measures price change
4 in the consumer price index for cellular services." This
5 is information that anybody can gather. You do not need
6 to be an association member. You do not have to pay for
7 this information. This is free to the general public.
8 This particular documentation is about two pages long and
9 it will give a very brief synopsis of how we price these
10 cellular services in the Consumer Price Index.

11 Basically, we price the CPI using information
12 that is gathered for sample selection from right here at
13 Federal Communications Commission. And Dan is going to
14 go into that a little bit further later on.

15 The data that we publish for cellular services
16 is published on a national basis. We do not publish
17 actually for any of the telephone components, whether it
18 be local, long distance or cellular. We do not publish
19 this data on a state or city or regional basis. In the
20 CPI, some of you may have heard we do have information
21 that we publish for average prices. However, cellular
22 services is not a part of this. Therefore, any data you
23 would gain would be on a monthly basis and it's only
24 national data.

25 The data itself is going to be available from

1 that website. Not everything is going to be available
2 there. If you do find information, or you do want
3 information, you don't see there, you can also call our
4 office just as well.

5 If we can go to the very next slide, I'd like to
6 go into what we define as the CPI for cellular services.

7 This is going to include personal residential phone
8 service, the telephone instrument is going to be portable
9 and sends or receives signals for calls through the
10 airwaves. The service charges are permitted charges,
11 roaming charges and any other charges normally included
12 in the cellular plan are going to be eligible for
13 pricing.

14 Now we are going to have various exclusions just
15 as well, but the exclusions primarily are going to be
16 from pricing and not necessarily from the weighing.
17 Naturally, these items are going to be weighted. Pagers
18 are not included, portable radios, pay phone charges and
19 cellular programs that are business or international in
20 nature.

21 Some of you who are familiar with our program
22 know that we have some sister indexes, the producer price
23 index and international price program, they're going to
24 be looking at this from different standpoints;
25 especially, international price program will be doing

1 this from a commercial or business point of view. We're
2 looking at this primarily from a consumer point view.

3 We also exclude from pricing residential long
4 distance charges and telephone instrument rental or
5 purchase. Now I will make a note that if we're pricing a
6 specific plan, some of the items I just mentioned, such
7 as the telephone instrument or long distance pricing,
8 also roaming charges, can be included if these are
9 automatically included in a program that we are pricing.

10 In the CPI, we're going to use a checklist that
11 we designed for this. If we can see the very next slide,
12 this is going to give you a basic idea of what the first
13 page of this checklist is going to be. Most of the
14 checklists that we used for most of the items in the
15 Consumer Price Index are going to be sent to field staff
16 in various locations around the country.

17 However, the CPI facility or services is not
18 going to be done that way. Some of the items are handled
19 exclusively in Washington office, and cellular services
20 right now is one of them. This is handled right now in
21 Washington. Possibly, in the future, that could change.

22 But this gives an idea of the first thing we're going to
23 be using to price. We develop a checklist of some the
24 types of items that are going to be priced with the
25 different carriers.

1 A number of years ago when we initiated this
2 information, we contacted many of the different carriers
3 and talked to the people in their cellular wireless
4 agencies and we were able to try and find how they
5 desired to go ahead and price this information. I give
6 special attention right now, I know it's difficult to
7 read, the very first thing that you come across talks
8 about cellular plans and also internal computer data.

9 Normally, when we contact the companies, the
10 first thing we have to keep in mind is that the Consumer
11 Price Index, many people do not know this, we are not a
12 mandated program. We are a voluntary program. We cannot
13 enforce compliance. Therefore, we do not pay anybody to
14 participate and we cannot force anybody to participate.
15 This is strictly voluntary. So if we receive information
16 from an organization, this is going to be on a voluntary
17 basis.

18 Some of the data that we gather, if a company so
19 chose, they may give us what our A2 says. The A2 is
20 basically going to be talking about information that is
21 from the computer and some companies chose to give us a
22 type of average revenue. It maybe average revenue per
23 minute, revenue per bill, revenue per customer or it
24 could even be revenue on a city, regional or statewide
25 basis.

1 Most companies do not chose to give that. If
2 this is what they chose to give, then this is probably
3 going to be a more comprehensive measure. Many people
4 feel that is probably a better method of pricing.
5 However, we do deal with many phone companies where the
6 phone companies maybe small and they may not produce
7 revenue data or internal computer data that they can give
8 us for pricing.

9 Other companies do produce it and with your very
10 familiar word, which is "proprietary". So it's
11 proprietary with the organization. They may use it
12 internally, but they will not share it with us. Some of
13 these companies will simply give us information that they
14 could also give to a person in general public that they
15 would like to gain as a perspective customer.

16 So we can price plan data and that is the other
17 item that we have up there for A1. We price information
18 right here where it simply talks about the plans that
19 they have available. In many cases, we may gather
20 information on a plan that maybe the most popular plan
21 for that particular area that we're pricing, or we may
22 gather information on a plan that is new and is really
23 hot as far as this company is concerned in a certain
24 area.

25 After time, a company may feel that a plan is no

1 longer selling as well and they're replacing it with new
2 plans. We do have the ability to substitute to new plans
3 to keep the market updated in that particular area. We
4 also have the ability to take plan information and have a
5 limited quality adjustment basis that we can use. We do
6 obtain some information from some carriers that would
7 give us adjustment values on the number or the price-per-
8 minute and also some adjustment values can be obtained
9 through Hedonic Project. We did do Hedonic Project on
10 this a couple of years ago, and another one is probably
11 going to be the offering within the next couple of years.

12 So this information can be adjusted on a limited
13 basis. We compile all this information on a regular
14 monthly basis, and, of course, it's put together to form
15 the CPI for cellular services.

16 Now Dan's going to be going into this on a
17 broader basis.

18 MR. GINSBERG: As I've been sitting here, I've
19 been sort of, not puzzled, but wondering about what kind
20 of contribution a program like the CPI could make toward
21 an agency that has a certain amount of responsibility for
22 ensuring competition exist, and in this, in the cellular
23 wireless market.

24 One of the outgrowths of the CPI program, of
25 course, are a series of indexes. Mike just described the

1 cellular index. After I go through just explaining what
2 I hope will help you understand what the CPI is, I think
3 I can offer, at least, some piece of information that
4 could be used in helping to determine the status of
5 competition in a particular market.

6 So first of all, with CPI what is really
7 essentially. It's -- of average price change for a
8 market basket of goods and services that we attempt to
9 hold that quality of that market basket cost through
10 measurement periods. Of course, we don't have complete
11 control. We don't have complete ability to quality
12 adjust for every facet of change that occurs. But if we
13 can identify that a quality change has occurred, we'll
14 adjust for it.

15 If we have some ability, either through dollar
16 values, udonics (phonetic) to account for the change. If
17 we know this quality change associated with the product
18 between time periods and we can't identify the piece
19 that's quality versus price, we just don't use that quote
20 in the index.

21 So we attempt to make sure that, from time
22 period to time period, we are reflecting the same quality
23 of merchandise and the same quantity of merchandise so
24 that we're not show phantom price movement through the
25 changing items and numbers purchased.

1 Now the CPI itself is almost a bi-product of a
2 lot of other surveys. There's a consumer expenditure
3 survey that was conducted for us by the Census Bureau
4 that asked approximately 500 households each year a whole
5 raft of questions. Sometimes they're quarterly and
6 sometimes it's a two-week diary to identify household
7 expenditures for all sorts of items from food products
8 through medical care services through cellular telephone
9 use.

10 We've just recently revised the weight structure
11 in the CPI in January, well, actually as of December
12 2001. And we now have expenditure values coming in from
13 the 1999/2000 Consumer Expenditure Survey. For telephone
14 services, the telephone services in total, 2.234 of the
15 consumer's expenditure budget. It doesn't include any
16 investment aspects, but just what you and I would go out
17 and purchase to maintain our living expenses outside of
18 investment.

19 Within local, assuming local is 100 for the sake
20 of -- I'm sorry, the telephone services combined is 2.3
21 percent. Then, using that as a hundred, allocating the
22 rest of telephone services into its component parts,
23 local is about 49 percent, long distance, 41 percent and
24 cellular 10, percent. Now some of our friends in Rates
25 and Tariffs we've been talking to recently are sort of

1 surprised of the low level of cellular telephone as a
2 measure of expenditure.

3 But, in fact, this represents, we hope, and the
4 questions are framed so that they attempt to eliminate
5 all business expenditures, and to the degree that a lot
6 of cellular phone services that is even used for personal
7 use is really an instrument that is paid for by an
8 employer, ideally, those expenses wouldn't be included in
9 our survey.

10 Now with the 10,000 households participating in
11 the survey, and we have what we refer to as a UCC code
12 for cellular services, we're somewhat optimistic that
13 we're, at least, capturing for the set of households
14 we're interviewing in 87 areas across the country, that
15 those represent their cellular expenses for personal use.

16 Of course, even between 2000 and 2001, cellular
17 seems to be growing in magnitude. I would tend to think
18 that the next two-week weight update will show a larger
19 percentage of revenue going toward cellular;
20 particularly, as was mentioned earlier, the 18 percent of
21 households treating cellular as their main phone
22 instrument. There are increased anecdotal cases where
23 people moving into apartments in expensive cities to get
24 phone service, like New York, find that it's just as easy
25 to keep their cellular as their main phone rather than

1 going to a wired instrument in the house.

2 Now we do have 87 pricing areas that are meant
3 to represent the urban population. The distribution of
4 areas are really standard metropolitan areas above a
5 million and a half. Those are 31 of those that are
6 selected with certainty. Metropolitan areas below a
7 million and a half that are selected with probability.
8 And then, there is a small set of areas that are between
9 2500 and 75,000 that are also selected with probability.

10 We only have 10 of those in the sample because they
11 don't really make up a large amount of the urban
12 population.

13 So although the index itself is urban-oriented
14 in that it covers about 87 percent of the population in
15 the U.S. Even some of the rural population is actually
16 covered because there are rural parts to the counties
17 that make up a lot of the SMSAs, and they are, by
18 definition, outside of New England. They are basically
19 county definitions. So there are some rural areas
20 included.

21 We do have monthly and bi-monthly pricing.
22 Telephone services are priced monthly in the index. Many
23 other items are not. Medical care services, for example,
24 is priced bi-monthly, and this combination of monthly and
25 bi-monthly is what makes up the index each month.

1 The outlet sources for the CPI are twofold.
2 One, and our primary source is another survey that's
3 conducted for us by the Census Bureau. It's a household
4 survey that asks individuals via telephone collection
5 system where did you buy your physician services? Where
6 did you buy your long distance services? Who is your
7 local carrier? How much did you spend at each provider
8 of service? From this, we end up with a "universe" of
9 service providers with a measure of size the revenue
10 spent at each service provider. We use that to select
11 our samples.

12 There are some items, including cellular
13 telephone, where we brought it into the index at the '98
14 revision before we were able to generate a question for
15 cellular services in this household survey that Census
16 conducts for us. So in that case, we get measures of
17 sizes cellular providers in the states in which we have
18 local areas to be priced and a probability proportioned
19 to the measure of size provided select a cellular carrier
20 or carriers to be priced in each one of our 87 market
21 baskets.

22 I'm not saying we price a cellular in every one
23 of them because in some cases we've had cooperation
24 problems. But we do have most areas covered.

25 We have three pricing periods a month, and this

1 goes for the telephone services as well, where roughly a
2 third of the quotes are collected during the first eight
3 days, second eight days and third eight days of the
4 month. In this way, we're able to capture price change
5 in a much a broader way of the month rather than at some
6 particular point with in the month.

7 The indexes we publish include all taxes that
8 are paid associated with the purchase of the items. So
9 with telephone services, it includes a lot of taxes
10 because there are not only some federal taxes, but there
11 is a lot of local use and excise taxes that are added on
12 to the telephone bills. We pick up all of that;
13 although, frankly, it's quite complicated in many cases
14 to do it. The computer systems in the telephone company
15 seem to be able to collect and calculate the taxes much
16 better than the humans beyond the computers. And since
17 we're aren't really collecting specific bills, we're
18 dependent on the human beings to do the collection.

19 We do attempt to rotate our samples
20 periodically. Many items have a subset of their outlets
21 rotated every year so that over a four-year period an
22 entire sample is rotated. That happens with local
23 telephone services. In theory, it's suppose to happen
24 with long distance telephone services, but we have had
25 some cooperation problems in that area so that we are

1 contemplating contacting the carriers only once every
2 four years rather than every year for getting updated
3 samples.

4 Cellular telephones is still on a cycle of doing
5 it altogether every four years. So there's been no
6 update since the current initiation effort back in 1997
7 that became the basis for the '98 revision that Mike was
8 mentioning.

9 Now one thing, as I said earlier, that I was
10 really wondering about is how we might be able to help.
11 After all, the Bureau does produce these indexes and
12 there is a broad range of them that can be used for a
13 number of purposes, including estimating how much more it
14 cost today than it cost yesterday to purchase a certain
15 set of goods an services.

16 So I was looking at the telephone services
17 indexes we produce, and looking at three of them
18 specifically. One is local services, long distance and
19 cellular. One of the things that struck me was local
20 services, if one would contemplate that, that is the
21 least competitive of all the telephone service markets,
22 interestingly enough, if one looks at the last few years
23 of price movement, December to December, every year has
24 gone up. The last four years are up 4.5 percent, 5.5,
25 2.8, 1.3 and 1.0 percent. So definitely, an increasing

1 cost for local telephone services.

2 Now if we look at long distance, that situation
3 is somewhat different. We've made some changes in the
4 long distance services so that we had to start a new
5 index in '97. But if we look at the last four years for
6 long distance, we find every 12-month change has gone
7 down -- 1.8 percent for 2001, 9.2 percent in 2000, 1.3
8 and down .10 in '98. Now long distance is certainly, I
9 think, reasonably viewed as much more competitive than
10 local markets. So that maybe a helpful indicator that
11 where there is a lot of competition within the industry,
12 it has a beneficial effect to consumers on pricing.

13 And finally, the cellular that Mike has just
14 gone over, that is similar to the long distance. The
15 last four years every 12-month change has been down.
16 Last year it was down 5.5, in 2000, 12.3; in '99, 11.6,
17 and in '98, 8.3. So at least, there is some hint in
18 these numbers that there is, at least, potentially, a
19 competitive market in place for cellular telephone
20 services, and long distance. For that matter, that may,
21 in fact, be reflected in our index changes during the
22 last five years that benchmarking it against local where
23 there is relatively little competition in that area,
24 prices have been going up.

25 So that's something for others to interpret.

1 But I just offer it as a possibility.

2 So, I guess, off the Adam.

3 MR. GUY: Thank you. I'd like to start by
4 thanking the Commission staff for including the Strategis
5 Group. It's an honor to participate. I concur with some
6 of the previous participants. This is a gargantuan task.
7 I know first hand because every month or two I have to
8 make a similar decision. I engage in a new research
9 project and have to decide, okay, how am I going to
10 narrow the scope enough to make it meaningful. And in
11 this industry, that seems to be changing all the time.
12 It becomes a real challenge.

13 Now I do have a luxury that I can call
14 subscribers or potential clients and say, okay, what's
15 the market clamoring to know? There I can get my
16 directions to what are the critical components. The
17 Commission staff has a distinct mission to determine an
18 appropriate level of competition, which may be more
19 subjective. So I sympathize with the challenge.

20 We can go ahead and que up the first slide.
21 What I'd like to do today is to share a couple of
22 examples of the type of data that we collect and analyze.

23 Not necessarily that our findings will directly
24 contribute, but, perhaps, our methodology can shed some
25 light about what's readily available, what's difficult to

1 obtain and what the Commission staff may find worthwhile
2 to gather and interpret going forward.

3 Before I do that, I have just a few words about
4 who we are and what we do. The Strategis Group is a
5 consultant/research firm. We've been in business for 36
6 years. I haven't been working there quite that long, but
7 I'm making my way up the learning curve.

8 We have separate and distinct groups. One that
9 does consulting propriety research projects for specific
10 clients. And then, a separate group, Research, which is
11 where I work. On the last panel that came up, the
12 incentive that there may be certain research entities may
13 have to come up with a certain result. That's something
14 that someone in my position doesn't feel.

15 I mean, I may go out to the marketplace and say,
16 okay, what do you guys want to know? What would add
17 value? We really need an analysis of churn (phonetic).
18 But nobody says just make sure it's low or make sure it's
19 high. That's just not something we wrestle with. We
20 work pretty hard to stay separate and stay objective from
21 propriety-specific interest.

22 Our core companies are on wireless and broad
23 band. I work in the wireless group, and we collect a
24 wide swath of data, most of which is global. I'm going
25 to focus just on the U.S.-specific projects to stay

1 germane to our objective here.

2 It comes out in the form of interactive data
3 bases, on-demand maps. We do somewhat regular surveys,
4 which I'll talk a little bit about the methodology and
5 the limitations. A lot of times there is the feedback
6 that, okay, what kind of hard numbers can you glean from
7 these consumer surveys. And then, of course, technology,
8 market-specific forecasts of users revenues and usage.

9 One thing, just in thinking about this panel, I
10 thought I'd focus on two areas from 309J, which came in
11 the invite. After I looked that up, I realized we were
12 talking about the appropriate level of competition that
13 would stimulate technological innovations, but also
14 competitive pricing. So I'll share basically two
15 examples of what we do that may shed some light on what's
16 available and appropriate.

17 So if we could just advance to the next slide.
18 This is a map. You may have seen these. We show these
19 for some of the trade press. I believe this one popped
20 up in a Wireless Week somewhat recently. And this is a
21 graphic of AT&T's deployment of certain technologies,
22 GSM/GPRS. We have it on the map as just a term GPRS for
23 short, TDMA and we also have the Sun Com affiliate on
24 here.

25 Real brief, this isn't groundbreaking. All this

1 information is public, but how do we go about getting
2 this. Most of it the carriers provide, either in terms
3 of announcements of markets where they've deployed a
4 specific service or sometimes we'll get a map that we
5 scan and then, through a GIS software, we GO code the
6 geographic area which then rolls into the data base. So
7 it's just an example of the type of data that we collect.

8 We find, not easy to find on a uniform or ubiquitous
9 basis, but relatively out there in the public domain.

10 If we can advance to the next slide, this is
11 another popular component of the some of the research
12 that we've produced. A breakdown of actual usages of
13 specific technologies. This is different from what was
14 in the previous map because, while that showed where our
15 codes where deployed certain services or technologies, it
16 says nothing about who's using them. This was a lot
17 easier maybe a couple of years ago when -- or at least
18 until the dissolution of the UWCC, the TDMA trade
19 association. A lot of folks could rely on those
20 reasonably well in order to determine how many
21 subscribers of specific technologies. But it's gotten
22 harder and harder and more confusing.

23 By the way, we classify these as mutually
24 exclusive. So off course, you may have a dual mode
25 handset that supports TDMA and analog. What we're

1 calling that subscriber a TDMA subscriber. It's the same
2 way with the GSM and GSMGPRS. We separate those as
3 mutually exclusive.

4 If we could just advance to the next slide. I'm
5 just going to walk you through -- I don't mean to
6 represent precisely what we do in order to come up with
7 these estimates, but I just want to walk you through my
8 thought process. How do I get that? How do I figure out
9 how many GPRS subscribers there are when, of course,
10 nobody's talking about how the uptake is going. How can
11 I say that .12 percent of the marketplace is actually
12 using GPRS on a regular basis?

13 Well, we start with what we got out of the first
14 map, the actual markets where the carriers have deployed
15 services. Obviously, we know how many people live in
16 those markets. And we have a reasonable idea how many
17 subscribers to wireless service in general are in this
18 market. So that serves as our top line dressable market.

19 Then we have to make a decision how to look at
20 markets individually. If we were doing it on a national
21 basis, as shown in the chart before, we tend to assume
22 that the operator's overall penetration of its cover
23 population applies more or less uniform. I mean,
24 obviously, it doesn't, but that's an assumption that we
25 make.

1 We do, do some work, where we segment markets
2 specifically. We apply some of the demographic data that
3 we get out of some of the surveys mentioned before from
4 BOS or from the U.S. Census in order to proxy, okay,
5 which markets are likely to grow really fast based on
6 income or based on the average age of that particular
7 market. But in this case, we pretty much view a
8 carrier's penetration as a carrier's penetration across
9 all market just to make the model manageable.

10 Then going from the top down approach to the
11 bottom up, on a quarterly basis, we review the financial
12 statements of carriers where, now they're starting to
13 disclose a lot more minutes of use, some segmentation of
14 revenue per user and almost all will share the digital
15 penetration, historical and going forward. So now we
16 have, in each of these markets, a reasonable assessment
17 of how many digital subscribers there are.

18 Then it gets sticky with certain carriers, like
19 the Cingular example has always been a problem. Maybe I
20 don't know the right people there, but I can't get
21 anybody to tell me how many GSM subs versus how many TDMA
22 subs. So we just go back to the historical data of who
23 made up Cingular and what they had and just apply a basic
24 trim line. If the Pacific Bell subscribers are growing
25 at this rate relative to the rest of Cingular's property,

1 so then we have a reasonable breakdown of the technology-
2 specifics of these particular carriers. So we do this on
3 a carrier-by-carrier basis where there are multiple
4 digital technologies, for example.

5 Then we start to apply the survey data. This is
6 where our sample sizes are usually somewhere between 500
7 and 1000 users, which, granted, there are some variation
8 and some statistical significance issues when you start
9 to segment them in multiple layers.

10 If we tried to compare agriculture workers with
11 professional workers within that base, we might have some
12 statistical problems. But we feel like they give us a
13 pretty good trend of what's happening. So we ask a wide
14 range of questions about usage trends, but also attitudes
15 toward forthcoming products and services and willingness
16 to pay.

17 So we have some sense of what percent of the
18 current subscriber based is interested in an always on,
19 higher speed data service. We have a reasonable guess as
20 far as what percentage would be willing to pay a certain
21 price point for it, and when they would anticipate paying
22 a little bit more. So now we can sort arrive at an
23 adoption curve for a technology. So if we weight this
24 the right way and apply it to the digital subscribers in
25 a particular market, we also have assumptions about turn

1 and replacement rate for our handset data base forecast
2 and products.

3 If we roll all these things together, we feel
4 like we have a reasonable sense for how many, either CDMA
5 2000 1X subscribers are there going to be six months
6 after the service is rolled out and in which specific
7 markets. And then, of course, there is the other 5
8 percent that we don't capture in the top 25 U.S. carriers
9 that we track. There the survey is useful, but also we
10 make some decision. We figure there is obviously going
11 to be a lower digital penetration and we just allocate
12 the technologies there.

13 So unless you're an evangelist of a particular
14 technology, you'd be justified in saying, well, so what,
15 we'll just have to deal with competition.

16 I just want to highlight, this is how we arrive
17 at a technology distribution. When maybe next generation
18 services are more ebiquiously available, this type of
19 data collection and analysis maybe useful in determining
20 what markets are being left out? What markets are being
21 left behind? I'm not suggesting that markets where there
22 aren't particular technology right now aren't
23 competitive. But really I just want to share a little
24 bit about the methodology.

25 So why don't go ahead and advance to the next

1 slide. The other thing I want to talk about, a clear
2 result of meaningful competition is pricing. It's come
3 up again and again. This, too, has gotten a lot harder
4 as the pricing plans have gotten more complex. On the
5 left side there, pretty much, everybody knows these are
6 some of the different dynamics that can come in a pricing
7 plan.

8 The most challenging one is the urban versus
9 world because we, like the other participants, don't
10 really have any way to assess the rural population as a
11 whole. We tend to just spot. We tend to just pick out
12 markets and I just pick out favorite ones with
13 interesting names or cities where people are from.

14 I always like to look at Russell, Kansas because
15 it's where Bob Dole is from or politicians playing in
16 some of these discussions, Tibidoe, Louisiana, where
17 Billy Tauzin is from. It's interesting to look at what
18 pricing plans are available there. Honestly, that's how
19 I go about picking rural markets to examine.

20 In a slide, I'm just going to show a model of a
21 result of what we come up with when we look at different
22 pricing plan on an admittedly arbitrary basis. What's
23 become challenging is we used to have to worry about peak
24 versus off-peak. We would just assume a basic rate. We
25 always used 40/60. Forty percent of the minutes are

1 probably used in peak times.

2 I don't know if that's realistic or not. We
3 would get that from the survey. But admittedly, users
4 may not know how many minutes, using period, let alone,
5 how many are peak versus off-peak. But it just gives us
6 an idea. Somebody would just have to pick a coefficient.

7 But these are of a value added service to make
8 it really complicated because we get survey data on the
9 average -- how much folks spend a month. We think
10 they're more likely to know than the minutes of use. I
11 mean, everybody writes a check once a month, so they have
12 some idea of how much they spend. So we can, at least,
13 identify a trend, whether we're spending more or less
14 going forward.

15 The real challenge is something we're wrestling
16 with now, is how do we back out some of these -- the
17 other one is long distance, which has come up a few
18 times. I didn't put it on the chart, but how are we
19 going to discount the price-per-minute or the unit on a
20 minute of air time for bundled long distance. I mean,
21 even the carriers that I feel like are frank with me
22 aren't sure what the discount rate for that is. What's
23 that worth? Also, night and weekend minutes, what's 3000
24 minutes on the weekend worth or what's the relative cost.

25 I just thought I'd tee up some of those facts

1 that make it really challenging to examine price plans.
2 But it's impossible to examine, in rural America, as a
3 whole, or at least, not worthwhile. I'm not saying it's
4 not worthwhile to know that, but for us, selling
5 research, it's not worthwhile the manpower to round that
6 up. We just find it's not worth what we'd be able to get
7 for that research.

8 Let's advance to the next slide. Here's an
9 example, and this is about year-old data, we picked a
10 market. I believe this was Seattle where these four
11 carriers offered service. We just plugged in their price
12 plans and said, if you're using this many minutes a
13 month, and you're on the optima plan, which we know that
14 doesn't always happen, but if we assume that if you use
15 that amount a month, this you optimize your plan. This
16 is the least cost per minute of use.

17 We published this and said, well, this shows
18 that, at least, when you get beyond just a handful of
19 minutes, it pretty much the same for these national
20 plans. Now we're looking at some of these arbitrary
21 markets and looking at family plans and local plans and
22 regional plans. We expect to see some more variation,
23 but this is an interesting way to compare urban markets
24 with rural markets. You almost have a number. Here's
25 Sprint's least cost per minute of use for this particular

1 number of minutes.

2 Let's go ahead and advance to the next slide.

3 Speaking of scope, paging the historical reports they've
4 included components of fixed wireless, paging,
5 specialized mobile radio. And just what we've done with
6 these areas, fixed wireless, we actually cover as part of
7 our broad band group. We just view that as oppose to a
8 market segment, but listed here, I won't bother to read
9 them out to you, are the things we track within that
10 space.

11 Basically, top line data on what's happening.

12 Who's the point in services. Who holds licenses.

13 Paging, we used to do comprehensive, separate paging
14 studies, but now we're looking more at messaging as a
15 suite of services within the overall wireless space.

16 Likewise, the specialized mobile radio. I mean, the
17 point is well taken that Nextel doesn't compete directly
18 against Cricket, but it's really the same type of
19 service. So we've rolled specialized mobile radio in as
20 a segment of the overall wireless space. So we're not
21 really looking at that separately anymore.

22 I thought I would share those thoughts that,
23 that's where we've gone with our annual market assessment
24 for the U.S. wireless space. We look forward to taking
25 any questions at the end of the panel.

1 MR. MAHLA: Adam, your reference to picking
2 cities for doing studies, it reminds me of a study that
3 was done by William Shoe in the old pre-PCS days where he
4 showed that there was a statistically significant
5 reduction in the cost of service in capital cities. The
6 theory was that keep legislators happy. It's interesting
7 that, that's your way of selecting cities.

8 I'd like to start out by thanking the staff of
9 the Commission for inviting me and Econ One to today's
10 forum. It's a worthwhile endeavor to try and get our
11 hands around the costs of cellular service and rural
12 issues, rural pricing in particular.

13 Because this is a public forum, I'd also like to
14 thank the staff at Econ One for their tireless efforts in
15 putting our survey out each month. Greg, Dr. Rosston
16 referred to the cost of acquiring data, and there is an
17 explicit as well as an implicit cost of doing that. I
18 would like to thank the folks who work oftentimes at
19 personal costs to collect this data. Because Econ One is
20 not a funded survey, the acquisition of the data that we
21 use in our survey is something that's done after hours,
22 so to speak.

23 I thought I would spend my time today telling
24 you a little bit about what the Econ Wireless Survey is.
25 Also, I think it's important for me to explain what the

1 Econ Wireless Survey is not.

2 (Slides shown.)

3 MR. MAHLA: The survey, itself, began initially
4 in June of 1999. It came as a result of recognition on
5 the part of some people at Econ One that there was not
6 particularly good publicly available information about
7 the costs of services across different markets.

8 That came as a result of litigation work I had
9 been involved in, and in that work, the question came up,
10 what is the price of service? We went about trying to
11 find the cost of service and found that it was not an
12 easy task. It was not an easy question to answer. And
13 so, back in the middle of 1999, we initiated our survey.

14 Initially, did the top 10 markets. Expanded, so
15 thereafter, in September of 1999 to the top 25 markets
16 across the country, the top 25 markets based on
17 population.

18 One of the benefits of doing the top 25 markets
19 for me, personally, is that I head up or Sacramento
20 office, and it turns out, at the time that we ranked the
21 top 25 markets, Sacramento turned out to be No. 25. So
22 we got to track what was going on in Sacramento as well.

23 One of the things the survey is not, is not a
24 consumer questionnaire. I get a lot of questions from
25 the media, who do you talk to? Well, we don't talk to

1 anybody. We're economist. We don't talk to anybody.
2 What we do is we acquire data from carrier's websites,
3 and the survey entails a collection and analysis of over
4 2500 pricing plans each month. The first Friday of every
5 month we survey websites of the carriers, download each
6 and every plan offered on their websites and then put
7 those pricing plans through a pricing algorithm that
8 includes four different usage levels.

9 We assume 30, 150, 300 and 600 minutes of use
10 per month. We recognize that none of these are likely
11 the average use in any particular city. But that's not
12 exactly what we're trying to get to. We're looking at a
13 "what if" situation with our survey. We report the
14 results from our 70 percent peak, 30 percent off-peak
15 analysis.

16 We do, in fact, run the pricing plans through
17 three different peak/off-peak usage assumptions -- 70
18 percent peak/30 percent off-peak; 40 percent peak/60
19 percent off-peak; and 10 percent peak/ 90 percent off-
20 peak. For those who are interested in seeing how those
21 different peak/off-peak assumptions play out, I invite
22 you to the Econ One website or the wireless survey.com
23 website. We report those numbers on the site each month.

24 In describing our survey, one of the most
25 important things that I'm consistently asked about is

1 what's the average cost of service in Chicago or what's
2 the average cost of service in Miami? And my response
3 is, well, I don't know. We put out a survey that looks
4 at four different usage levels. We, in fact, calculate
5 an average across those four usage levels. And we
6 oftentimes report about that simple average. That
7 average is sometimes converted into the average cost of
8 service. Clearly, that is not the average cost of
9 service, and we try to be care about representations that
10 it is.

11 It is a not a cost of service study in that
12 sense. We do not attempt to value roaming or long
13 distance. We don't have enough information to
14 effectively put that kind of information into our
15 surveys; particularly, on a city by city basis. So we
16 leave it alone.

17 We do believe that the survey does provide
18 insight into service costs from a trend perspective
19 because we've been doing this since September of '99 the
20 same way. To the extent that we've maintained a constant
21 methodology, we're able to say something about what's
22 been going on, at least, in terms of the trend of service
23 over time.

24 Some of our observations from our survey -- not
25 all from our survey. Some of them are obvious. The

1 first one being demand for wireless service continues to
2 grow. I'm sure you're all thankful that I'm here to tell
3 you that. Penetration and usage seems to be on the rise.

4 It has been since we've been doing the study.

5 Things we have noticed while doing the study
6 since '99, cost of service to the end user, the consumer,
7 based on our methodology, continues to fall. Footprints
8 are getting larger. Since 1999, the advent of Cingular,
9 Verizon, and some of the acquisitions we have seen, even
10 lately, Verizon's acquisition of Price Communications is
11 an extension of their footprints.

12 Footprints are, in fact, getting larger. The
13 Spectrum Cap issue is likely going to have an impact on
14 those footprints. It will be interesting to see how that
15 unfolds.

16 The other thing that we've noticed is that there
17 is a movement towards regional and national plan
18 structure.

19 When we initiated the survey, there were far more
20 localized cellular plans than there were regional or
21 national plans. There has been a marked growth in the
22 number of regional and national plans offered by the
23 carriers.

24 This is a simple bar chart of minutes of use.
25 The only reason I put it in here is to point out -- I

1 believe Dr. Roche put out a statistic about usage from
2 the CTI study and you'll notice it's different than the
3 one that's in this bar chart.

4 One of the difficulties in calculating the cost
5 of service index is that if someone asks you what is the
6 average minutes of use, it depends on what study you look
7 at. Particularly, on a city-by-city basis, that is true.

8 We don't have very good information about minutes of use
9 in particular geographic areas.

10 This slide is consistent with some of the other
11 statistics we've heard today. What we have found,
12 looking at 2001, we saw, on the average across the four
13 levels of use that we survey, a 7.3 percent decline from
14 December of last year. That follows up on about a 7
15 percent decline the previous year. You'll see in a slide
16 or two how this may not be representative of all users of
17 cellular services.

18 If we look at the actual decline in the average
19 monthly costs across all cities at different usage
20 levels, you'll see that actual service costs appear to
21 have actually risen at the very low in. And the drop in
22 cost actually successively larger as the minutes of use
23 go up. Clearly, then, the 7.3 percent decline is,
24 perhaps, for some folks an understatement of what their
25 actual decline in costs were. For some, it maybe an

1 overstatement.

2 This slide shows one of the interesting features
3 of the increase in footprint that we've seen is that over
4 time, since December of 1999, if we looked that top 25
5 cities, and looked at how much of a difference was there
6 in the average cost of the buckets that we look at
7 between the cheapest city and the most expensive city,
8 there was a 34 percent premium. As of December of this
9 past year, that premium had fallen to 8 percent.

10 So one of the things we've seen, at least,
11 through our looking at service plans over time is that
12 where you live has less of an impact on how much you pay
13 for service when you're talking about the top 25 cities
14 than it did back in 1999. We attribute that to the
15 nationalization of some of the service plans. Some of
16 the carriers in our survey appear to have the same
17 service costs regardless to the city you're looking at,
18 and that was not always the case. Costs actually varied
19 substantially by city. That seems to be eroding and
20 there seems to be much more consistent pricing from city
21 to city.

22 Difficulties in calculating a service index, and
23 these are some of the things that we don't have the
24 resources at Econ One to get into. We would like to.
25 We'd love to have this information. Dr. Rosston talked

1 about the benefit of having more data. We would love to
2 have more data. Some of this data is difficult to get.
3 Specifically, city-specific minutes of use data is
4 difficult to find.

5 Another component one would need to get to the
6 true cost of service is time of day usage statistics.
7 When do people use their cellular phones, that would be
8 an important component to understanding the true cost of
9 service. Also, the distribution of users by plan type,
10 that information is not easily obtained.

11 There have been a number of presentations that
12 have talked about actual surveys of consumers. They're
13 very helpful. For us, it's very difficult for us to go
14 down the road of conducting consumer surveys because of
15 the resources it would require.

16 One of the questions I ask is, how accurate are
17 consumer surveys with respect to the questioning of
18 consumers about their use of cellular service. I raise
19 that question, antidotally, my own experience has been
20 there are very few people who actually know how many
21 minutes they use; when they use their cellular phone;
22 when their peak period begins and ends; which plan
23 they're even on in some cases.

24 So consumer surveys, unless they're conducted
25 very carefully and with lots of forethought about how you

1 get to that information may not be as accurate as
2 information, obviously, directly from carriers. These
3 bullet points all raise questions about how does one get
4 to a cost of service index that would be reliable.

5 I want to talk a little bit about the cost of
6 service in rural markets. We received a call from Ben
7 Freeman of the FCC last summer. He inquired as to
8 whether or not we'd done a study on rural markets. He
9 understood we had been tracking the top 25 markets for
10 some time and wanted to know if we'd done a rural study.

11 You don't have to hit us over head. We said, we should
12 do a rural study.

13 So given our limited resources for doing these
14 kinds of things, we set out in October of last year
15 conducting a 25 market rural analysis that was very
16 similar to the one that we do in the top 25 market. The
17 market selection was not scientific. It was, perhaps, a
18 little more scientific than choosing congressman's home
19 towns, but not much more.

20 What we did was we randomly selected from RSAs
21 and then simply chose cities within an RSA. The one,
22 perhaps, selection bias is that we chose cities that were
23 not adjacent to or very close to larger urban areas. So
24 we randomly selected the RSAs we used and then, selected
25 cities within those RSAs to conduct those studies.

1 I don't believe the definition of rural markets
2 would comport with some of the government agencies
3 definition of rural markets. The average population is a
4 little over 95,000 people. Interestingly enough, they
5 are much smaller than the average 4.4 million that are in
6 the top 25 markets that we look at. So they are small
7 relative to the large markets that we look at.

8 It is interesting to also note that the standard
9 deviation of the populations relative to the mean of
10 these two different market groups was actually much
11 smaller in the small markets than in the large markets.
12 So the distribution of the actual population across those
13 two top 25 markets in those rural markets is actually
14 much smaller relative to the large markets. There is an
15 interesting implication about that a little bit later.

16 Also, the average number of carriers per market,
17 3.3 percent versus 4.9 percent in the large market
18 studies that we do. That was an interesting finding.
19 That basically means there is a little over one PCS
20 carrier per market in those rural market versus almost
21 three in the larger markets.

22 This is a map and it may not be as clear. This
23 is a map of the cities that are actually in our rural
24 market study. It has such hot spots as Calaspell
25 (phonetic), McComb, Mississippi, Diesburg (phonetic),

1 Tennessee and places like that. Maybe you can see on
2 your handout there, we have ranked, based on the average
3 cost of the four buckets that we analyze, is connected to
4 each of those cities. Where a city comes out on the map
5 is spread pretty evenly across the U.S. There is no
6 particular pattern to where there were more expensive
7 cities versus less expensive cities.

8 You can see, from the yellow dots, that we got,
9 through our random sampling, a pretty good distribution
10 across the country of rural markets, perhaps, the
11 southeast is a little under represented. I also should
12 point out that I don't represent to you that we can draw
13 a tremendous number of conclusions about this because
14 we've only done one data point. And as I said before,
15 the benefit of our survey is really the trend information
16 that comes out of it. The information that comes in the
17 next couple of slides should be taken with that in mind.

18 Some of the results of what we found,
19 interestingly enough, at the low end, there was almost no
20 different in the average of the four levels that we
21 analyzed. At the high end, large markets appear a little
22 bit cheaper, at least, than they did in October of 2001. In
23 the 150 and 300 minute categories, it appears as though
24 there was a premium paid in large markets. So the
25 average across the four markets was actually lower in

1 rural markets.

2 Can we say anything about competition in those
3 markets from that alone, no. But it is an interesting
4 fact worthy of further study. The final slide is one of
5 the more interesting findings from this one data point,
6 is that the -- I mentioned before that the premium from
7 the cheapest to most expensive city in the large markets
8 was about 8 percent in December of 2001. In October, it
9 was 8.3 percent.

10 The spread between the cheapest of the small
11 markets there was a 59 percent spread. So there were
12 fewer carriers with a much wider disparity in pricing
13 across the markets, which simply means what you paid for
14 cellular service in rural markets was much more dependent
15 upon where you live than it is in the large markets.

16 We do plan on doing more of the rural studies.
17 We probably not engage in doing them on a monthly basis,
18 but we will continue to do them, perhaps, quarterly as we
19 go forward. So with that, again, thank you for having
20 me. It's been a real pleasure.

21 MR. FURTH: We have a few minutes for questions.

22 If you have questions, please feel free to come up to
23 the mic there in the middle of the room. But I'd like to
24 lead off following up on Chip's last point with a
25 question really for all of the panelist.

1 A lot of the discussion, both at the last panel
2 and this one, has had to do with nationally aggregated
3 data versus granule data, market-specific data or perhaps
4 even more than market-specific data. I guess, my
5 threshold question is, to the degree of what we have
6 available to us, and much of what we collect is
7 nationally aggregated data. And what BLS collects is
8 essentially nationally aggregated data.

9 To what degree in the wireless industry or in
10 other industries can we draw any kinds of conclusions
11 based on nationally aggregated data about what's going on
12 in particular markets, whether they be urban markets or
13 rural markets? What are the limitations on the
14 conclusions that we can draw from that kind of national
15 data, which would then require us to look more
16 specifically at more granule data?

17 MR. GINSBERG: Well, it seems to me that the
18 range of rate structures that are out in the marketplace
19 is very broad, and there is a lot of different
20 competitive situations in local areas -- New York versus
21 Dallas versus Seattle, that the national data isn't all
22 that helpful in analyzing local area situations.

23 In long distance, for example, particularly,
24 intrastate, since there is one rate schedule that applies
25 everywhere across the country, the problem is very

1 representative. But in cellular where a lot of the plans
2 are local in orientation and the competitive situation
3 varies, at least, our data wouldn't be all that helpful
4 to discerning what's really happening in the local
5 market.

6 MR. GUY: I guess I've already flushed my
7 credibility with my small town methodology, but it came
8 up in the last panel. It seems like quality of service
9 is one that would be really valuable. I mean, even if it
10 was just in particular markets, the surveys that we do
11 over time, we ask folks why they turn or why they're
12 thinking about their carrier. And over time, covers
13 capacity and quality of service becomes increasing
14 important or it comes up more and more often in terms of
15 a competitive factor.

16 So it seems like, well, if there is no one to
17 turn to, then you're stuck with poor quality of service.

18 So the only way I can imagine would be just to pick
19 towns and go there and do the tests that were referred to
20 in the last panel. Verizon just launched its new ad
21 campaign of we're everywhere or however the jargon goes.

22 So I think it's becoming more and more of a marketing,
23 competitive factor. But I think that would be really an
24 interesting data point.

25 MR. MAHLA: I think that I agree with Adam's

1 assessment that you really do have to go out and kind of
2 look. I think the rural versus national market
3 information that we calculated points to, at least as a
4 starting point, that there is a need to -- you cannot
5 rely on national data solely. You maybe able to draw
6 some inferences about patterns and competition on a broad
7 scale. But that, in fact, you do have to go out and
8 collect and look at specific markets to get a true
9 handle.

10 MR. FURTH: I guess the other question I would
11 ask is, all of you rely on data given to you voluntarily.

12 The fact that people may have their own agendas when
13 they provide you with information or when they chose what
14 information to provide, what steps do you take and what
15 steps would you advise the Commission to take in terms of
16 its collection of voluntary information.

17 And is there any particular type of information
18 that you think that's relevant to the issue of
19 competition that you think it's particularly hard to get
20 on a voluntary basis, so that we might want to consider
21 whether it's something that we should seek on a
22 nonvoluntary basis?

23 MR. MAHLA: Well, with respect to data that's
24 easily accessible, on the rare occasions that I get calls
25 from an irate carrier that someone has represented

1 something about our survey in a way that makes them look
2 less than beneficial, I always probe them and ask them,
3 well, perhaps, you guys could send us some data and we
4 could know for sure what's going on in these markets.

5 The response is typically, well, that's a nice
6 thought. Thanks but no thanks. Specific information
7 about minutes of use on a regional basis would be
8 helpful. And any other components you could use in
9 deriving a cost of index certainly would be helpful. I
10 don't know what the FCC's mandate for requiring that data
11 is, but it certainly would be helpful.

12 MR. GUY: I agree that maybe a couple more
13 layers of segmentation. I mean, I don't know how to
14 require it, but if we knew the prepaid minutes of use
15 versus the post-paid. That would be meaningful in
16 determining what is the impact of new packages of
17 services. It seems like we're kind entering a era of
18 more disclosure with everything that's happened in
19 business over the past several months.

20 I'm not lobbying for required disclosure, but
21 since the Fair Disclosure Act, my job's gotten a little
22 bit easier because I get more information now. It used
23 to be the security analyst would get everything and then
24 we'd get it later. I'm not saying that's the right
25 policy, but that helps when carriers are required by some

1 regulatory entity to at least disclose what's happening.

2 MR. FURTH: Do you want the last word on this?

3 MR. REESE: Actually, one thing you may want to
4 start doing, and this is going to be more general
5 information, you may want to get on some of the company
6 websites just to try and find some information from
7 there. It's not going to be detailed. There maybe some
8 items that you can glean from this. We certainly have
9 gone on many of the websites of a number of these
10 different companies. In some cases, they may feel some
11 of the information you can use is worth disclosing and it
12 may be of value to you and it's not going to hurt their
13 market position.

14 I find this what really they are against,
15 anything they feel is going to hurt their market
16 position. If you want to ask them directly, which I've
17 done many times -- I think the one hard thing to gain
18 from them is revenue figures, especially, if they feel
19 this is going to hurt their market position. Revenue
20 figures, in some cases, they may give to you. Probably,
21 they're going to have to feel this is going to be to
22 their advantage to do so. Many of the carriers will not.

23 I actually had one particular lady from one
24 particular organization say they do produce revenue data,
25 but she would only give it over her dead body. And those

1 were her exact words. So some of them are vehemently
2 against providing these data. You can try. I mean,
3 there's certainly no harm in trying, but the revenue data
4 would probably be a better type of information to gather.
5 Once again, with some companies you're going to run into
6 a lot of resistance.

7 MR. FURTH: I think we're out of time at this
8 point. I would like to thank the panel. We're going to
9 take a break until about 20 until 4:00 o'clock.

10 (Whereupon, a recess was taken a 3:30 p.m.)

11 MS. SCHIEBER: I think we're about ready to get
12 started on our last panel of the day. We have four
13 speakers representing various rural wireless interest
14 with us today.

15 Our first speaker is going to be Ken Johnson,
16 who is Director of Legislative and Regulatory at the
17 Rural Telecommunications Group. Mr. Johnson is an expert
18 in the numerous policy and regulatory issues that effect
19 rural telecom companies. Having previously served as a
20 legislative and regulatory analyst with the Organization
21 for the Promotion and Advancement of Small
22 Telecommunications Companies. There he specialized in
23 universal service and competitive issues for wire line
24 and wireless carriers.

25 He is the editor of the Washington Watch and the

1 World Spectrum Scanner, newsletters provided to all of
2 our members.

3 Our second speaker is Terry Addington, who is
4 the president of the Rural Cellular Association, and
5 also, CEO of First Cellular of Southern Illinois. He
6 also serves on the Board of Directors for CTI, the
7 Illinois Telecommunications Association, the Renlake
8 Foundation Board of Directors, and the Jefferson County
9 Economic Development Commission.

10 First Cellular is licensed to provide cellular
11 services to 488,000 pops in two Illinois RSAs.

12 Our third speaker is Doug Stephens. He is the
13 interim chief operating officer of Dobson Communications
14 Corporation and vice president for the central region.
15 Mr. Stephens has been in the wireless communications
16 industry for 15 years, holding management positions with
17 Cellular Communications, Inc. and U.S. Cellular prior to
18 joining Dobson Cellular Systems in March of '97.

19 He recently assumed the position of interim
20 chief operating officer, and also, served as vice
21 president of Dobson's central region, where he's
22 responsible for sales and operation over Oklahoma, Texas,
23 Kansas, and Missouri.

24 Our final speaker is Mark Rubin. He's the
25 Director of Federal Government Affairs for Western

1 Wireless Corporation. Western a leading provider of
2 wireless TELEFIA in rural markets in 19 western states.
3 In this position, Mr. Rubin represents the company on
4 Capitol Hill, at the FCC, before the Administration and
5 at industry-related events in Washington.

6 Mr. Rubin comes from the FCC where he was a
7 legal advisor to the current chief of the Wireless
8 Bureau. He also worked in the Office of Legislative
9 Affairs, focusing on wireless and broad band issues. In
10 the first quarter of '99, he was selected to be a
11 detailer from the FCC and served as Congressman's Rick
12 Boucher's legislative counsel.

13 And with that, we will start with Mr. Johnson.
14 Thank you.

15 MR. JOHNSON: First, I'd like to thank the
16 Commission for inviting me to this forum. I'm going to
17 take a different track here that were sent to this panel.

18 Previously, the panels have talked about collecting
19 data. I'm going to talk about how we can keep from
20 giving you data. So as much as you'd like to crack the
21 royal nut, I have some ideas how you can actually finally
22 take a look at it and then reasons why you don't want to
23 take too close a look at it, but based on the burden of
24 collecting data from rural carriers.

25 First, a little bit about what the Rural

1 Telecommunication Group or RTG is. They are world
2 wireless providers. They're either affiliated with world
3 telephone companies or small businesses. They straddle
4 all aspects of competition. In some markets, they're the
5 competitor or they're the incumbent and they're being
6 competed with. In some markets, they're the only
7 provider. And that's more on a coverage basis, a cell-
8 site basis.

9 For example, if you're in eastern New Mexico and
10 you're driving along, and good golly, you're roaming,
11 there's probably only one cell site and it's an RTG
12 member that providing coverage in that area. Perhaps,
13 because there's a population density of one customer per
14 every two square miles. Or if you want to do it per
15 square mile, I can do the math there, that's a half
16 customer.

17 What RTG's main mission is reducing regulatory
18 burdens. We also have a mission where we want rural
19 carriers to be able to actually acquire Spectrum, and I
20 want to give a quick nod to the Wireless
21 Telecommunications Bureau and the auction folks for
22 recognizing that MSAs and RSAs give carriers who enjoy
23 serving rural areas at least some sort of chance at
24 acquiring rural Spectrum and actually providing coverage
25 in that area.

1 Although RTG is affiliated with rural telephone
2 companies, they don't always toe the wire line policy
3 line, and this is based on RTG's mission of reducing
4 regulatory burdens. For example, and I'm going to guess
5 Western Wireless might talk about this more, I'll let
6 them carry the water on this one, but RTG does not want
7 wireless providers at universal service offerings to be
8 regulated at the state level. Their CMS carriers, they
9 don't need to be regulated at the state level.

10 Again, you can talk about competition there. As
11 for the reducing regulatory burdens, RTG isn't concerned
12 about the resources its members must expend. There's big
13 things, there's Colea, there's Phase II E911, all the
14 government-based mandates. A data collection -- Phase II
15 E911 is up here, data collection is less of a burden and
16 more of a hassle. And when I say "hassle," it's really
17 the small size of RTG members. We're talking ultra-rural.

18 There are three classifications of rural, and it's real
19 scientific. There is rural, which is probably people
20 study. They're like, okay, a rural carrier. Let's look
21 at a cellular corporation. There is really rural and
22 really, really rural.

23 Really, really rural are the folks you're not
24 even taking a look at. I mean, I know with the Econ One,
25 he took a look Roswell, New Mexico. I zeroed in on that

1 because we have members who are there. I don't know if
2 they were 3.3 carriers in that area, but it could be.
3 That's a good example of a rural market.

4 An example of why you don't want to collect too
5 much data, and I think David Furth was talking about
6 involuntary data, and that's what kind of gives RTG the
7 willies. Who actually finds this data for a really,
8 really rural carrier with less than 10,000 subscribers.
9 When you have less than 10,000 subscribers, you're not
10 even filling out the form that due on March 1st above
11 local competition, the broad band reporting form. So the
12 FCC doesn't even take a look at that data.

13 We had a member that just went over 10,000
14 customers. They've got to fill out the form. This is
15 the first time they're going to make it on the FCC's
16 radar screen. But who's filling this out? Usually it's
17 the guy literally in the truck for the rural wireless
18 provider. I mean, it's Mike in the truck. You call him
19 up on his cell phone and he's in charge of the technical
20 things, going to cell sites. He does not have the title
21 "director of regulatory affairs," but that's what he
22 does.

23 Every time Ken calls, he will pick up the phone
24 and say, what do I have to do now? What do I have to
25 send the FCC? Help me with this. That just gives, at

1 least, the FCC an example of the hassle that can be
2 involved with providing data for the rural carriers to do
3 it. They don't have a specific person in charge of that.

4 One of the questions put to us was some of the
5 rural trends, competitive trends. The AT&T One Rate
6 Program lead to some lower roaming rates. AT&T needed
7 the rural carriers to have one rate throughout the entire
8 United States. Now after build out, and AT&T and
9 Cingular have been building out highways, which makes
10 sense because that's where the mobile traffic is, and
11 they've been building out rural highways, also.

12 Now that they're completing their build out,
13 continuing to build out, we've seen -- and this is just a
14 recent trend. We're still looking into it, but the
15 roaming rates, especially for PCS carriers, seems to be
16 raising. I suppose, from AT&T standpoint, that's going
17 to make some sense. They've built out. Now they don't
18 need the rural carriers and the rates are just beginning
19 to creep upwards. But we're keeping an eye on it. If
20 we're alarmed, we'll certainly run to the FCC.

21 Other rural trends, digital upgrades, for the
22 most part, in very rural areas, these are done in
23 response to the market. A few years back, there was
24 still a lot of analog carriers. They didn't have any
25 capacity problems. In the mountains of California, they

1 don't have any capacity problems there. They're making
2 money off of their analog service. People are happy with
3 it.

4 For the most part, within the next year, most
5 carriers now that I've talked to are digital or are
6 planning to convert to digital as soon as possible. I
7 mean, there's some hold outs. There's a company up in
8 Alaska that's still analog. If they switch to a digital
9 switch, it's going to cost too much money. They would
10 rather forego service. Right now, they're offering
11 service at a break even point, almost a public service,
12 as it were. They're the exception. For the part, rural
13 carriers are shifting to digital roll out.

14 You also threw us a question about partnerships.
15 There's been a lot of successful, so far, partnering
16 with Sprint. They've set up a program. We have a number
17 of members who work with Spring. Actually, we sell
18 Sprint services under their own rural brand name. We
19 found less success partnering with AT&T and Verizon.
20 These are just some of the rural trends.

21 The other question was, what exactly is rural.
22 The paranoid Ken Johnson thinks to himself, well, why are
23 you asking what is rural? Why does the FCC want to know
24 what is rural? So I gave you the three, highly accurate
25 definitions of rural, very rural and really, really

1 rural.

2 Really, I think, population density is the place
3 to start. I mentioned a half customer per mile. And
4 where there is a half customer per mile, I don't think
5 the FCC can expect too much competition. If it's there,
6 then there is a reason that it's there. The market has
7 dictated that there should be competition there.

8 I'm trying to figure out the definition of
9 rural, can you look at RSAs? Fortunately, there are
10 rural portions of MSAs. RSAs are a good place to start,
11 but I'm not sure if that works. You can look at Census
12 data. Again, I'm wondering what are they going to do
13 with this data. If an area is super, super rural, do you
14 not worry about competition? I'm going to argue that,
15 perhaps, you shouldn't. In some cases, on a cell-site
16 per cell-site basis, it makes more sense for their to be
17 one cell site.

18 If one company has got that cell site up, and
19 everybody can use it, they can roam off of it, then there
20 is no reason to build another cell site in eastern New
21 Mexico on the chance that a Cingular customer is going to
22 drive through.

23 But going back to the Census, about what's a
24 good cutoff, if you're looking at population density,
25 it's one of the many factors that would determine rural.

1 I hate to make an analogy to the universal service cost
2 model that was not developed by the Wireless Bureau, but
3 that's incredible leviathan that, I believe, takes a week
4 to figure out to run one set of data through it. Only
5 one of the factors to decide where do we need universal
6 service or where is it rural is population density.

7 I look at the Census and I think, well, maybe
8 it's less than 100 people per square mile. So does that
9 make Albermaryle County, Virginia -- I use Virginia
10 because I'm from Virginia. Albermaryle County is were
11 Charlottesville, there's the University of Virginia.
12 They have 94.0 people per square mile. Does that make
13 them rural, parts of it are? I mean, if you're right
14 there at the University of Virginia, it's not rural. If
15 you drive five minutes away, where Thomas Jefferson was
16 born, it's extra rural.

17 So population density, I think, is one thing
18 that the FCC has to look at to determine rural and the
19 extent of competition.

20 As far as data goes, the question was asked,
21 what are the limitations of the data that the FCC's
22 collecting? And really, they're collecting no small data
23 whatsoever. I brought the guy in the truck, who actually
24 has to get this data and file the form. Right now, the
25 FCC is not looking at any wireless carrier with less than

1 10,000 customers. There is more than a number out there.

2 There's a large amount out there. As much as I hate to
3 say this because I just said that they don't have time to
4 do this. There is all these mandates that are costing
5 these small companies money, where they have less
6 customers per switch; less customers per cell site; so
7 they have legitimate fixed costs, but a customer base
8 that it's tough to recovery all these costs from.

9 But that being said, if you were to have all
10 companies, and you've made this suggestion in your MPRM,
11 I believe, even the companies with less than 10,000 say
12 how many customers they had, it would be a hassle. I
13 wouldn't support it, but I wouldn't be against it. I
14 mean, that's the best I can say about that.

15 Other ideas I had when it comes to collecting
16 rural data because it seems you guys are trying to crack
17 this nut. I believe Econ One does it as a public
18 service. I talked to Adam Guy, he'll sell it. So you
19 want this data. Part of me is like you don't want the
20 FCC requiring it involuntarily, just so Adam can go out
21 and sell it. I'm sorry. But still, that being said, and
22 I don't mean to pick on you, I think, a lot of the
23 research they do is valuable. One question you
24 could ask for all these rural carriers is, what is your
25 website, specifically, do you have a specific one to your

1 pricing plans or anything like that. I mean, in addition
2 to saying how many customers do you have? Okay, I've got
3 5,982. What's your website? That would allow these
4 folks who have the economic motivation to search this.
5 They could, at least, find a list of these carriers'
6 websites and make more meaningful comparisons. I mean,
7 that's public. It's out there. I don't think anybody
8 should have a problem with that.

9 One last point on collecting data from rural
10 carriers, the Commission has to be aware of the
11 competitive nature of the data since aggregated data for
12 a small carrier is not aggregated. If you get specific
13 data for one carrier, again, I'll use eastern New Mexico
14 for an example. There is a number of rural carriers
15 there. You're going to know exactly what they're up to.

16 So if you're asking what are your minutes of use during
17 peak hours, any competitor, including Western Wireless,
18 is going to go, hey, that's where I want to go. That's
19 the sort of information that the rural carriers of wary
20 of giving because of their size.

21 That's where RTG stands on this. Terry?

22 MR. ADDINGTON: I'm going to digress just a
23 little bit from what I had planned to say because RTG
24 pretty eloquently stated our position and we have similar
25 insights because we represent the same constituency.

1 I'm going to talk to you this afternoon as the
2 guy you want to analyze. I kind of felt like maybe I was
3 a psychiatric patient a while ago. Everybody sitting up
4 here talking about slicing and dicing me, and I'm an
5 operator/owner, and I run a small company. I've very
6 proud of being a small business person. I used to work
7 for large carriers and I really thoroughly enjoy working
8 for a small company and so on.

9 While you're out there looking for small
10 companies to analyze, it's me you're talking about and
11 the folks that work with me and our customers. I happen
12 to be this year's president of the Rural Cellular
13 Association, but that's not a lobbying organization or an
14 advocacy organization or a regulatory organization. It's
15 much more small guys getting together and sharing
16 operational comparisons and learning from each other
17 because that's what we are. We're 91 carriers at RSA, 25
18 million pops. We don't even share our subscriber
19 information with each other, let alone, do we want to
20 share it with you. So I have no clue how many pops, or
21 how many customers RCA represents.

22 One of the fears that I had as I listened to
23 everybody, I'll be very honest with you, I've had to
24 retain a manager because we recently went through our
25 first layoffs. I'll go through that in just a minute. I

1 had to retain a manager just to manage mandates.
2 Mandates are very, very difficult for a small carrier to
3 manage because we're resource challenged.

4 I'm fearful, after hearing all the information
5 that everybody wants, that I'm going to have to hire a
6 manager to manage slicing and dicing to everybody.
7 That's scares me.

8 Let me tell you what it's like to be a small
9 business person in the wireless world fighting against
10 the gigantic nationwide carriers. It's a lot of fun.
11 We've been very successful, and I think small carriers
12 can be very successful.

13 First of all, let me tell you, I'm a B-side
14 carrier. I cover two small RSAs in southern Illinois.
15 If you take a line from St. Louis to Evansville, we're
16 everything south. Like I said, I used to work for large
17 carriers and this used to be a partnership and we bought
18 the big guys and decided to go it alone. I have seven
19 independent small lexs that are owners. The smallest one
20 is 600 access lines. The largest one is 30,000 access
21 lines.

22 Together, we are bigger than they are
23 aggregated. They love the wireless business because it's
24 much more exciting, in their mind, anyway, than the small
25 lex business. We cover 24 counties. We talked about

1 population density as a defining factor for rural
2 definition. Well, we're 51 pops per square mile if you
3 believe the Raymond James study that I got that number
4 from.

5 Our largest city is Carbondale, Illinois.
6 Southern Illinois University, if anybody's ever heard of
7 that, I had not before I moved to Mt. Vernon, Illinois.
8 That's the home of the Salukis. I didn't know what a
9 Saluki was either. I had to learn all this stuff.
10 There's a population of 30,000 in Carbondale, Illinois.
11 Primarily, agricultural-based economy with some energy,
12 light manufacturing and service.

13 We started business, opened our doors, in 1991.

14 Obviously, we had one competitor. We've had one
15 competitor for several years. We obviously saw what was
16 going to happen as far as PCS and additional competitors.

17 So years ago, we started planning what would we do, how
18 would we respond to competition. Clearly, that
19 competition was going to be, at least, large company in
20 nature. And as the price plans has developed, as
21 nationwide networks have developed, it became very
22 apparent probably in '98, '99 that it was going to be
23 nationwide in comparison.

24 We can't compete with that. I can't compete
25 with a nationwide price plan. I can't compete with a

1 nationwide carrier, not on their terms anyway. If I went
2 head-to-head with them, I'd fight a losing battle. And
3 we'd be sold now or we'd be gone. One of the two. So
4 what do you do? You decide to fight a different war and
5 look to employ tactics and strategies that you don't
6 think that they will use.

7 It's very obvious that they would come in with a
8 business strategy utilizing their nationwide network,
9 utilizing their obvious advantages to the business
10 consumers. They were going to target and go after the
11 business consumer. Therefore, that left the consumer in
12 southern Illinois. So we came out with, and I'm not
13 going to say the lead model because everybody refers to
14 it, but we came out with an unlimited rate plan in 1999,
15 unlimited minutes, no, none of this peak/off-peak stuff.

16 We do offer, and I differentiate from the lead model, we
17 do offer roaming. It's cellular. Well, for roaming, we
18 offer free long distance within our 24-area counties. We
19 offer 9 cents a minute long distance.

20 Clearly, what happened in our marketplace, is
21 the marketplace got differentiated. The large carriers
22 started, as we anticipated they would, going after our
23 business customers. We let our business customers go,
24 for the most part, because running the business models on
25 a nationwide strategy, being a small carrier, it's not a

1 winning proposition.

2 We do offer some nationwide plans in small
3 buckets, and that solved some of the issues for some of
4 the carriers. But essentially, we're a local carrier and
5 we provide dynamite voice service for the consumer and
6 unlimited buckets for \$39.99. It was \$34.99 but I raised
7 the price.

8 Demand has been exceptional. One of the things
9 we obviously had to do in order to support this pricing
10 strategy or this marketing strategy was, years ago, we
11 decided to go digital. We went digital early and before
12 the big guys got there. We not went digital, but we
13 doubled the amount of cell sites from 45 to 80 plus cell
14 sites. Overlaid everything with digital, we chose CMA
15 for obvious capacity issues.

16 Now I say all this because my day consist of,
17 not really worrying about what going on in Washington,
18 and maybe I need to worry about that more, but my day
19 consist of how do I get the next subscriber at the lowest
20 possible costs. And how will I keep that person happy
21 and keep them on my network. That's my day. That's our
22 day. That's how we stay in business.

23 A lot of the other things have a tremendous
24 impact -- mandates have a tremendous impact on us. The
25 need for data, very apparent to me as I roamed the halls

1 of the Commission here the last few days. I meet with
2 all the commissioners except for Commissioner Martin, but
3 I met with the staff members in place of Commissioner
4 Martin, need to have more data. I'll sit here and I'll
5 tell you they don't understand our economics or, I guess,
6 let me say this, they want to understand our economics.

7 Small carriers or small rural carriers, we're
8 not in the thick of things. Large carriers, obviously,
9 have a huge presence, not only in the marketplace, but in
10 Washington, D.C. As we met with some staff people
11 recently, the comments was that they see hoards and
12 hoards and hoards of folks from Verizon and Cingular and
13 Sprint and AT&T, and they don't see a lot of us, so they
14 don't see a lot of the information.

15 I want to supply you information if it would
16 help you understand small carriers, rural carriers desire
17 to stay in business. My margins have gone down 8 percent
18 since we've gone from two competitors to five
19 competitors, which has only been about a year, year and a
20 half. My margins have gone done 8 percent. My turn has
21 gone up 38 percent.

22 So competition is real and it's impactful and
23 it's out there. And let me tell, if you want to measure
24 it, come with me on sales call, sit with me at a
25 customer's location, I'll over my unlimited. AT&T will

1 come in and offer their one rate. Sprint will come in
2 and offer something else -- free phones, free this -- let
3 me tell you, that's competition.

4 It is absolutely good for the customer. It
5 plays hell for my sleeping at night and for my ability to
6 generate a return on shareholder value, but we're making
7 it. We're doing it. We're successful. Cash flow, knock
8 on wood, is still growing, albeit, at a much, much slower
9 rate.

10 As I said, margins have come down a little bit.

11 I would suggest that if you want an overview or
12 if you want to slice and dice us, go to our website. I
13 don't want to hire somebody else to come in and be a
14 manager of sharing information with everybody that wants
15 information.

16 Our website gives you all of our pricing. It
17 gives all of our services. Yes, you've got to make some
18 assumptions, not bad assumptions. I'll tell you, on our
19 unlimited plan, we're over 900 minutes of use, okay. I
20 mean, I'll share some things. I've got some graphs back
21 there. I'm not afraid to share a few things, but revenue
22 -- very, very sensitive, net income very sensitive.

23 We are here to stay. We don't want to sell.
24 We're not looking to sell. All we are looking to do is
25 try to compete. We need to be unfettered, free to

1 compete in the marketplace. Competition brings services
2 and pricing to the customer.

3 I'm a classic example. My graphs are back
4 there, take a look at them. Competition brings better
5 pricing. It brings innovation. I wouldn't be digital
6 today if we didn't have five competitors. My pricing
7 wouldn't be a four cents a minute if I didn't have
8 multiple competitors, five competitors. It's very real.

9 It's a challenging marketplace and I thank you
10 for allowing me to share what it's like to be rural
11 wireless operator. And I do want to work with you on
12 your desire for information, but I don't need it to be
13 intrusive. I don't need it to be something that becomes
14 more important than the customer.

15 MR. STEPHENS: Terry, well stated.

16 I want to thank you first for giving me
17 opportunity to discuss CMRS in the marketplace today. I
18 hope that this public forum will help the Commission to
19 reach a better understanding of the competitive landscape
20 that Dobson Communications faces as well as all the other
21 wireless carriers throughout the country.

22 The good news I'm here to report is not really
23 news at all, I don't think. As you've reported in your
24 annual reports to Congress, the Commission's wireless
25 policies over the past decade have made wireless the most

1 competitive sector in the telecommunications industry.

2 Consumers have benefitted immensely from the
3 build out of additional facilities, the roll out of
4 digital technologies and high volume local, regional and
5 national rate plans. In the steady decline of handsets
6 and air time prices, all with that, the Commission should
7 be commended, I believe, for promoting the competition in
8 our industry.

9 The really good news particularly is, as it
10 relates to the specific subject matter of the forum, that
11 with limited exceptions, consumers living in smaller
12 markets, which is certainly what Dobson Communications
13 serves, are now able to fully enjoy most of the benefits
14 of these positive developments.

15 Before I say a whole lot, I want to talk a
16 little bit about the company that I'm with and that I'm
17 representing today. Dobson Communication started in the
18 1930s as a rural TELLKO with a single exchange in western
19 Oklahoma. We began offering wireless telephone service
20 in 1990 in western Oklahoma and in the Texas panhandle.

21 We've rapidly expanded our wireless operations
22 with an acquisition strategy, targeting under-developed
23 rural and suburban areas. The company owns and/or
24 manages wireless networks in 17 states from the
25 California coast to the eastern shore of Maryland.

1 Dobson operates in 52 rural service areas and 13
2 metropolitan areas. We have a little over 1.2 million
3 subscribers in a managed population base in excess of 10
4 million.

5 We are one of the first rural carriers to
6 install digital technology in 100 percent of our markets,
7 and are continuing to introduce a variety of innovative
8 products and services into virtually all of our markets,
9 such as wireless internet through our CDPD service, two-
10 way SMS text messaging and voice activated dialing.

11 We undertook these initiatives even in markets
12 with only one or two other facility-based carriers.
13 While that limited competition is the exception, not the
14 rule, in the markets that we serve, it's been our goal
15 and the customers demanded that we provide big market-
16 type products and services in our small market
17 environment throughout the country.

18 For purpose of this inquiry we're engaged in
19 today, it's important for the Commission to understand
20 that the competitive landscape that exist in rural
21 markets, even five years ago, bears no resemblance to the
22 competition that we're seeing in the rural markets of
23 today. In fact, I believe that it is no longer useful
24 for the Commission to engage in urban/rural distinction,
25 applying different rules according to some artificial

1 division between the two.

2 They're only markets. Some are large. Some are
3 small. I think, if a difference does exist, in my view,
4 it's probably a difference in the cost for subscriber
5 bases to offer services to the customers in the rural
6 markets because of the density of the population.

7 I can assure you that, as someone who's been in
8 the industry for the last few years, competition exists
9 very heavily throughout small market America. In most
10 respects, small market carriers like Dobson are subject
11 to the same competitive pressures as the large market
12 carriers. Because of national advertising and the
13 internet, consumers all over the country are educated
14 about nationwide rate plans and services enabled by
15 digital technology and the prices of wireless handsets.

16 No matter where they live, customers expect and
17 demand the diversity of services at competitive rates.
18 In many of our markets, the big national carriers are
19 our competitors. If we didn't keep up with national
20 trends, we would experience slow growth and higher turn.

21 To be clear, however, we face aggressive
22 competition in many markets from carriers even smaller
23 than ourselves. I'm happy to report that we do, in fact,
24 compete well against small and large market carriers
25 alike for the very reason that I believe the Commission

1 adopted pro-competitive policies for our business in the
2 first place, and that is, to ensure that all carrier
3 provide state-of-art technology at competitive price
4 points.

5 We don't judge the extent of the competition we
6 face according to how many facility-based carriers are in
7 the market. That really doesn't tell the story. And the
8 Commission, I believe, would do a disservice if its
9 inquiry into CMRS competition didn't dig deeper and
10 assess a state of competition from the prospective of the
11 consumer. The average wireless customer has ample choice
12 among service providers and the average annual turn rate
13 in our industry is about 30 percent, I think, is ample
14 evidence that the marketplace is highly competitive.

15 Even the few small markets where Dobson is, one
16 of only two providers, we still offer the same nationwide
17 pricing plans that are found throughout the balance of
18 our markets. We've instilled digital technology in all
19 sales sites and the customer is the beneficiary of very
20 affordable, high technology wireless service.

21 Like many small market carriers, Dobson has
22 entered into mutually beneficial roaming agreements with
23 large, national carriers. This enables us to offer the
24 aforementioned national plans even the most sparsely
25 populated areas. Thus, a Dobson customer in central

1 Kentucky is offered the same type of national rate plan
2 options as an AT&T customer is offered in New York City,
3 and has the same ability to travel nationwide without
4 incurring roaming charges and long distance.

5 This is a trend that has penetrated many of the
6 smaller markets without regard to the number of
7 facilities-based carriers and consumers in rural America
8 are seeing the benefits.

9 In sort, I would urge the Commission to resist
10 the notion that a different set of competition rules
11 should apply in areas it defines as rural. Indeed, it's
12 hard to see any reason why the Commission should engage
13 in the exercise of attempting to define the rural term at
14 all. The market should be viewed as competitive or not
15 competitive based on their particular characteristics,
16 not based on whether they fit within an necessarily
17 arbitrary definition for ruralness.

18 It's the perspective customers facing the
19 purchase decision that counts. And in my view, on this
20 score there is plenty of competition throughout the
21 country, and it's not just in large markets.

22 I would like to thank you all for your time
23 today, and if you have any questions, I'd be happy to
24 answer them after the panel's done. Thank you.

25 MR. RUBIN: Well, thanks, indeed, Rachel for the

1 opportunity afforded Western Wireless to participate in
2 this forum for this 7th Annual CMRS Competition Report.
3 Public forums like this one allow for the free flow of
4 information of ideas between the public sector and the
5 private sector. I congratulate the Bureau for accepting
6 the challenging of always invigorating the annual report
7 with new and pertinent information.

8 It's also a pleasure to be back home here with
9 my former colleagues, notwithstanding the fact, that due
10 to Western's universal service efforts, I often find
11 myself spending more time with our friends in the Wire
12 Line Competition Bureau than I do with the good folks of
13 the Wireless Bureau.

14 As the largest CMRS carriers serving only rural
15 America, Western has gained a unique understanding and
16 approach to serving the wireless telecommunications needs
17 of rural consumers. Western Wireless is an incumbent
18 provider of telephone service in 118 MSA and RSA markets
19 served as well as a new wireless local loop provider in
20 the local exchange market.

21 Western strongly believes that the best course
22 of action for any regulatory agency, state or federal, is
23 a market-based approach with swift enforcement action for
24 anti-competitive behavior. This Commission has largely
25 taken this approach with the wireless industry, the

1 result of which is that CMRS is the most competitive
2 segment of the telecommunications industry.

3 The recent decision to lift the Spectrum Cap is
4 a good example of a market-based approach to regulation.

5 By allowing marketplace forces rather than regulatory
6 prescriptions to determine service offerings, quality of
7 service and industry consolidations, consumers will
8 benefit from the pro-competitive environment.

9 A well-informed decision, however, is predicated
10 upon obtaining the data or information relative to the
11 issue at hand. Additionally, because market conditions
12 can change drastically, the data or information collected
13 must be timely. Many times a report on the state of the
14 industry is outdated before it's released. To address
15 these concerns, Western Wireless suggest that the
16 Commission and state regulatory commission should strive
17 to complete all notice of inquiries, notice of proposed
18 rulemakings and other rulemaking proceedings, including
19 eligible telecommunications carrier applications, within
20 a six-month time frame.

21 Although this might sound aggressive and not
22 feasible in certain cases, six months can be a painful
23 wait for industry members. We at Western feel that the
24 carriers could or would very well be more forthcoming
25 with information and data, and interested parties would

1 be more engaged in inquiries and rulemaking proceedings
2 if the process were more transparent, timely and
3 consistent with the fast paced needs of the industry.

4 I'd like to take a second and talk about some
5 trends that we've observed. In many respects -- there is
6 service in urban America. I think you were just saying
7 that as well. For example, throughout the U.S., wireless
8 penetration continues to rise. Customers are using more
9 and more minutes and rates are declining. On the other
10 hand, service to rural America, in many cases, poses
11 unique challenges.

12 There is a very real opportunity, however, for
13 wireless in rural America to expand its penetration,
14 serve more wireless subscriber, roaming into rural areas
15 and compete with wire line providers by serving the under
16 served, the unserved and the people who rightly expect
17 more options, excellent service and advance service
18 capabilities.

19 I'd like to take a second to tell you about some
20 of the ways that Western Wireless has responded to these
21 marketplace trends. First, we've offered rate plans and
22 service offerings that are competitive with the rate
23 plans and service offerings of national carriers serving
24 urban areas. The result is increased penetration rates,
25 1XRTT advanced wireless services are on the horizon, and

1 rural consumers are benefitting from the competition in
2 the markets.

3 We are implementing technologies in not only
4 serving the company's subscribers, but also roamers. The
5 result is that CDMA, TDMA and analog technologies have
6 been implemented in our network. We've become designated
7 as an eligible telecommunications carrier or ETC for
8 purposes of universal service support. The result is
9 that we are now designated as an ETC in 12 states, plus
10 the Pine Ridge Indian Reservation in South Dakota. We
11 are currently providing universal service to thousands of
12 customers in six states -- Kansas, Minnesota, South
13 Dakota, North Dakota, Nevada, and Texas.

14 It's very important to note that updated and
15 comprehensive data collection about the status of
16 competition and high costs rural markets should be
17 extremely helpful to federal and state decision makers as
18 they review ETC applications and the presumptive benefits
19 of universal service competition. I'd like to give you a
20 sample of some of the compelling facts resulting from our
21 wireless, local loop universal service-supported
22 initiatives.

23 In Texas, more 52 rural communities have
24 competitive residential telephone service. Our household
25 penetration there is as high as 51 percent in some

1 markets. We have a high penetration of live line
2 subscribers. In Pine Ridge in South Dakota, which I
3 should add, is in Shannon County, which is typically the
4 second poorest county in America, according to the
5 Census, there we have an advanced digital network
6 infrastructure completed and we're providing coverage
7 throughout the Reservation.

8 We have more than 1500 household served there,
9 of which, 42 percent didn't even have land line telephone
10 service before we came onto the scene. There is also, on
11 Pine Ridge, a one dollar a month rate plan with unlimited
12 local usage in a very expanded local calling area.

13 Justice Stewart commented on the line between
14 obscene and constitutionally-protected speech, I'll know
15 it when I see it. Likewise, you'll know rural when you
16 see it. That doesn't mean, however, that there are
17 difference in telecommunication services available in
18 rural and urban areas. Any differences that do exist may
19 not attributable to any rural or urban distinction. For
20 example, there are some rural areas that have better
21 service and more competition than urban areas. Broad
22 generalities, based upon NSA and RSA distinctions don't
23 necessarily reflect the marketplace realities.

24 As a rural cellular service provider, Western
25 defines itself, in part, based upon the low population

1 density of its service area. I think that we serve
2 approximately 11 people per square mile. We cover 25
3 percent of the land mass of the continental United
4 States. But yet, that represents only 3 percent of the
5 country's population. I think only Verizon Wireless
6 serves more square miles than we do.

7 There are many other traits of rural area, with
8 every area evidencing different characteristics. Rural
9 and urban consumers, however, share a desire for access
10 to high quality, advanced telecommunication services and
11 therefore, there should not be disparate regulatory
12 treatment between urban and rural carriers, absent data
13 fully supporting differing regulatory approaches.

14 Readily available information will assist the
15 Commission and other policymakers in the evaluating the
16 need for intervention in a free market approach to
17 regulation, whether that intervention is to require LNP
18 to establish service quality requirements to evaluate an
19 alleged barrier to market entry or to manage industry
20 consolidations, industry-related information must be at
21 the policymaker's fingertips. To gather this
22 information, the Commission should consider ways, in
23 addition to forums like this one, where pertinent
24 information can be exchanged between academics and
25 leaders in the public and private sector.

1 On behalf of Western Wireless, I appreciate the
2 opportunity to be here today and to express our views.

3 MS. SCHIEBER: Thank you, very much. Any
4 questions from the audience?

5 I have one that I'd like to pose. I understand,
6 Terry, your position that there's a lot of data out there
7 already on websites. Take a look at our website, and
8 Mark also indicated, don't assume there are differences
9 between rural and non-rural. I pose back to you, if you
10 could give us some advice or recommendations, and we were
11 to go out to the websites, what key things should we be
12 looking for and does that vary, depending on the market?

13 What I mean is, you operate in many different areas
14 within your region, does it vary, depending on which area
15 you're talking about?

16 MR. ADDINGTON: Well, I think we have nuances to
17 our own offerings or our own strategies. I think if I
18 talk about competition in general, it usually comes down
19 to a couple of things, and that's prices and services.
20 Is the customer getting the benefit of competition
21 through pricing, and are they getting the benefit of
22 competition through services? It's probably a little bit
23 simplistic to say you can get all that information on the
24 website, but you can. I mean, you can go in and access
25 pricing. You can make a fairly educated guess, based on

1 best pricing, what the people are buying.

2 As far as services, you can see if they're
3 digital or not digital. You can see what their coverage
4 is like. You can see where they're digital, where
5 they're not, where all digital. You can see what
6 services they're offering SMS, things like that, data
7 services, things like that. So I think you can get a
8 very good, general overview of the status of competition
9 by looking and determining how many competitors are there
10 and what's basically inherent upon each person's website
11 with a little bit of analysis.

12 If you're looking to get to much more
13 significant detail, we do share that level of detail with
14 Dr. Roche at CTIA because it's dealt with propriety and
15 aggregated into their small carrier survey. We do share
16 revenues and things like that because it's safeguarded.
17 Getting down to that level of detail, that information
18 absolutely must be safeguarded.

19 MR. STEPHENS: There's not a whole lot to add to
20 that. He hit it pretty much right on the head. I would
21 just say there is a tremendous amount of information. We
22 do a lot of research with our competition doing that same
23 thing. We're looking at pricing. We're getting on the
24 websites and looking at what the competitors are offering
25 in the marketplaces that we compete in. You get a

1 tremendous amount of data off there. If you've got a zip
2 code in a given area, you can certainly get that and it's
3 very informative.

4 So I think there's an awful lot out there, and
5 depending on exactly what you're looking for, you can get
6 an bunch off the website.

7 MS. SCHIEBER: Any further questions?

8 I'd like to thank these speakers in this panels
9 and all panels. Thank you very much.

10 (Applause.)

11 (Whereupon, at 4:30 p.m., the hearing in the
12 above-entitled matter was concluded.

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REPORTER'S CERTIFICATE

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Competition Report

HEARING DATE: February 28, 2002

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I hereby certify that the proceedings and evidence are contained fully and accurately on the tapes and notes reported by me at the hearing in the above case before the Federal Communications Commission.

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