

**ODOT Development of Maintenance Practices for F-Mix Asphalt Survey
Ci3 Instrument**

CATI ON

REVIEW CtrlR
SQN right

Q:HELLO1

T:

INTERVIEWER NOTE: WORDS IN BRACKETS "[]" ARE OPTIONAL
WHILE PAIRS OF WORDS OR PHRASES IN PARENTHESES "()" ARE EITHER/OR CHOICES. CAPITALIZED WORDS ARE NOT READ ALOUD.

[Hello.] (Is this/May I please speak with) _____ ?

1 --> R ON PHONE

CTRL-END --> WRONG NUMBER, R NOT AVAILABLE, ETC.

I:

key 1

Q:HELLO2

T:

[Hello.] (ODOT/The Oregon Department of Transportation) needs your opinions about working with F-mix asphalt, and has asked the University of Oregon Survey Research Laboratory to conduct the survey.

I am _____, a professional interviewer calling from the University of Oregon and I want to assure you that this survey is completely confidential and voluntary, and it should take just fifteen minutes to complete.

Do you have any questions before we begin?

PROBE: Did your District Manager notify you about the survey?

IF R WAS NOT NOTIFIED: I have a copy of the e-mail that was sent to your Manager right here. Let me read it to you.

1 NO QUESTIONS --> CONTINUE

QUESTIONS --> SEE ANSWERS TO COMMONLY ASKED QUESTIONS

CTRL-END --> ARRANGE CALLBACK.

[Hello.] (Is this/May I please speak with) _____ ?

This is _____ calling from the University of Oregon Survey Research Laboratory. I'm calling back to finish the survey about F-mix that we previously started.

1 --> R ON LINE

CTRL-END --> R UNAVAILABLE

I:

key 1

Q:HELLO3

T:

Thank you. [I'd like to begin the survey now.]

1 --> R CONSENTS --> CONTINUE

I:

key 1

Q:YEARS

T:

First, how many years have you worked on asphalt pavement maintenance [altogether]?

OPEN-ENDED NUMBER, 0-60

PLEASE ENTER EXACT YEARS, NO DECIMALS, 0-60

0 --> LESS THAN 1 YEAR

60 --> 60 OR MORE YEARS

97 REFUSED

98 DON'T KNOW

99 NO ANSWER

I:

num 0 99 2 0 25 25

if (ans > 60)

if (ans < 97) REASK

endif

qal noqal

Q:EASYTYPE

T:

In the years you have worked in this field, what type of asphalt have you found easiest to maintain -- dense graded or open graded?

1 DENSE GRADED

2 OPEN GRADED

3 [IF VOLUNTEERED] OTHER

7 REFUSED

8 DON'T KNOW

9 NO ANSWER

I:

key 1-3,7-9

cmdi LOCATN "LOCATION" 1

cmdi REGION "REGION" 1

cmdi POSITION "POSITION" 1

cmdi COMMON "COMMON" 1

Q:EASYWHY

T:

Why [is that asphalt easiest to maintain]?

OPEN-ENDED

PLEASE TYPE IN EXACT RESPONSE BELOW

I:

opn 10 5 25 70

Q:DIFFTYPE

T:

What type of asphalt have you found most difficult to maintain --
dense graded or open graded?

1 DENSE GRADED

2 OPEN GRADED

3 [IF VOLUNTEERED] OTHER

7 REFUSED

8 DON'T KNOW

9 NO ANSWER

I:

key 1-3,7-9

Q:DIFFWHY

T:

Why [is that asphalt difficult to maintain]?

OPEN-ENDED

PLEASE TYPE IN EXACT RESPONSE BELOW

I:

opn 10 5 25 70

Q:DISTRICT

T:

What number is your ODOT maintenance district?

NOTE: THERE IS NO DISTRICT 6.

1 DISTRICT 1

2 DISTRICT 2A

3 DISTRICT 2B

4 DISTRICT 2C

5 DISTRICT 3

6 DISTRICT 4

7 DISTRICT 5

8 DISTRICT 7

9 DISTRICT 8

10 DISTRICT 9

11 DISTRICT 10

12 DISTRICT 11

13 DISTRICT 12

14 DISTRICT 13

15 DISTRICT 14

97 REFUSED

98 DON'T KNOW

99 NO ANSWER

I:

num 1 99 2 0 25 25

if (ans > 15)

if (ans < 97) REASK

endif

Q:LOCATE1

T:

Does your maintenance work cover the entire district or just part of it?

PROBE: Your maintenance work in the past year or so.

1 ENTIRE --> SKIPTO STRESS1

2 PART

7 REFUSED --> SKIPTO STRESS1

8 DON'T KNOW

9 NO ANSWER --> SKIPTO STRESS1

I:

key 1,2,7-9

if (ans = 1) skipto STRESS1

if (ans = 7) skipto STRESS1

if (ans = 9) skipto STRESS1

Q:LOCATE2

T:

What area in the District does your maintenance work cover?

OPEN-ENDED

PLEASE TYPE IN EXACT RESPONSE BELOW

I:

opn 10 5 25 70

Q:STRESS1

T:

Now I need to ask you about several types of pavement distress

on F-mix you have seen in your (district / area) in the past two years.

For each one, please tell me whether you have seen it in your (district / area), and, if you have seen it, how prevalent that type

of distress is on the highways where you work. I need to know

if it is rare, scattered, or pervasive throughout your (district / area).

The first one is raveling.

PROBE: Have you seen raveling in your (district / area)?

PROBE FOR YES: Is it rare, scattered, or pervasive [in your (district / area)]?

PROBE: Raveling refers to the asphalt surface becoming irregular because the aggregate and asphalt binder has worn away. The surface texture is rough and pitted.

1 NOT SEEN IT

2 RARE

3 SCATTERED

4 PERVASIVE

7 REFUSED

8 DON'T KNOW

9 NO ANSWER

I:

key 1-4,7-9

Q:STRESS2

T:

Have you seen clogging on F-mix pavement (in your district / area)?

PROBE: Clogging is when the asphalt is no longer porous and the voids are filling.

PROBE FOR YES: Is it rare, scattered, or pervasive [in your (district / area)]?

PROBE FOR YES: How prevalent is (it / that)?

1 NOT SEEN IT

2 RARE

3 SCATTERED

4 PERVASIVE

7 REFUSED

8 DON'T KNOW

9 NO ANSWER

I:

key 1-4,7-9

Q:STRESS3

T:

[(What about / Have you seen)] gouging or scarring [on F-mix pavement in your (district / area)]?

PROBE: For example, from snow plows.

PROBE FOR YES: Is it rare, scattered, or pervasive [in your (district / area)]?

PROBE FOR YES: How prevalent is (it / that)?

1 NOT SEEN IT

2 RARE

3 SCATTERED

4 PERVASIVE

7 REFUSED

8 DON'T KNOW

9 NO ANSWER

I:

key 1-4,7-9

Q:STRESS4

T:

[(What about / Have you seen)] deformation rutting from heavy trucks [on F-mix pavement in your (district / area)]?

PROBE: This refers to some trucks' heavy weight deforming the pavement into ruts.

PROBE FOR YES: Is it rare, scattered, or pervasive [in your (district / area)]?

PROBE FOR YES: How prevalent is (it / that)?

1 NOT SEEN IT

2 RARE

3 SCATTERED

4 PERVASIVE

7 REFUSED

8 DON'T KNOW

9 NO ANSWER

I:

key 1-4,7-9

Q:STRESS5

T:

[(What about / Have you seen)] rutting from studded tires [on F-mix pavement in your (district / area)]?

PROBE: This refers to studded tires (used for snow and ice) eroding ruts into the pavement surface.

PROBE FOR YES: Is it rare, scattered, or pervasive [in your (district / area)]?

PROBE FOR YES: How prevalent is (it / that)?

1 NOT SEEN IT

2 RARE

3 SCATTERED

4 PERVASIVE

7 REFUSED

8 DON'T KNOW

9 NO ANSWER

I:

key 1-4,7-9

Q:STRESS6

T:

[(What about / Have you seen)] thermal cracking or transverse cracks [on F-mix pavement in your (district / area)]?

PROBE: Temperature variations [like freeze-thaw] can cause this cracking.

PROBE FOR YES: Is it rare, scattered, or pervasive [in your (district / area)]?

PROBE FOR YES: How prevalent is (it / that)?

1 NOT SEEN IT

2 RARE

3 SCATTERED

4 PERVASIVE

7 REFUSED

8 DON'T KNOW

9 NO ANSWER

I:

key 1-4,7-9

Q:STRESS7

T:

[(What about / Have you seen)] alligator cracking [on F-mix pavement in your (district / area)]?

PROBE: An inadequate road structure can cause this all-over cracking [that looks like a puzzle].

PROBE FOR YES: Is it rare, scattered, or pervasive [in your (district / area)]?

PROBE FOR YES: How prevalent is (it / that)?

1 NOT SEEN IT

2 RARE

3 SCATTERED

4 PERVASIVE

7 REFUSED

8 DON'T KNOW

9 NO ANSWER

I:

key 1-4,7-9

Q:STRESS8

T:

[(What about / Have you seen)] reflective cracking [on F-mix pavement in your (district / area)]?

PROBE: This happens when a crack beneath an overlay spreads to the surface.

PROBE FOR YES: Is it rare, scattered, or pervasive [in your (district / area)]?

PROBE FOR YES: How prevalent is (it / that)?

1 NOT SEEN IT

2 RARE

3 SCATTERED

4 PERVASIVE

7 REFUSED

8 DON'T KNOW

9 NO ANSWER

I:

key 1-4,7-9

Q:STRESS9

T:

[(What about / Have you seen)] stripping [on F-mix pavement in your (district / area)]?

PROBE: Stripping is separation of the aggregate and the asphalt binder caused by the inability of the asphalt to stick to aggregate in wet conditions

PROBE FOR YES: Is it rare, scattered, or pervasive [in your (district / area)]?

PROBE FOR YES: How prevalent is (it / that)?

1 NOT SEEN IT

2 RARE

3 SCATTERED

4 PERVASIVE

7 REFUSED

8 DON'T KNOW

9 NO ANSWER

I:

key 1-4,7-9

Q:STRESS10

T:

[(What about / Have you seen)] fat spots becoming a problem [on F-mix pavement in your (district / area)]?

PROBE: For example, when there is too much asphalt binder in places.

PROBE FOR YES: Is it rare, scattered, or pervasive [in your (district / area)]?

PROBE FOR YES: How prevalent is (it / that)?

1 NOT SEEN IT
2 RARE
3 SCATTERED
4 PERVASIVE

7 REFUSED
8 DON'T KNOW
9 NO ANSWER

I:

key 1-4,7-9

Q:STRESS11

T:

[(What about / Have you seen)] icing problems [on F-mix pavement
in your (district / area)]?

PROBE: That is, more icing than you would expect when compared to
a dense graded pavement.

PROBE FOR YES: Is it rare, scattered, or pervasive [in your (district / area)]?

PROBE FOR YES: How prevalent is (it / that)?

1 NOT SEEN IT
2 RARE
3 SCATTERED
4 PERVASIVE

7 REFUSED
8 DON'T KNOW
9 NO ANSWER

I:

key 1-4,7-9

Q:STRESS12

T:

[(What about / Have you noticed)] a noisy ride [on F-mix pavement
in your (district / area)]?

PROBE: Is the road unusually noisy as you drive over it?

PROBE FOR YES: Is it rare, scattered, or pervasive [in your (district / area)]?

PROBE FOR YES: How prevalent is (it / that)?

1 NOT SEEN IT
2 RARE
3 SCATTERED
4 PERVASIVE

7 REFUSED
8 DON'T KNOW
9 NO ANSWER

I:

key 1-4,7-9

Q:STRESS13

T:

[(What about / Have you noticed)] pot holes [on F-mix pavement
in your (district / area)]?

PROBE FOR YES: Is it rare, scattered, or pervasive [in your (district / area)]?

PROBE FOR YES: How prevalent is (it / that)?

1 NOT SEEN IT

2 RARE

3 SCATTERED

4 PERVASIVE

7 REFUSED

8 DON'T KNOW

9 NO ANSWER

I:

key 1-4,7-9

Q:STRESS14

T:

[(What about / Have you noticed)] a bumpy ride [on F-mix pavement
in your (district / area)]?

PROBE: Is the road unusually bumpy as you drive over it?

PROBE FOR YES: Is it rare, scattered, or pervasive [in your (district / area)]?

PROBE FOR YES: How prevalent is (it / that)?

1 NOT SEEN IT

2 RARE

3 SCATTERED

4 PERVASIVE

7 REFUSED

8 DON'T KNOW

9 NO ANSWER

I:

key 1-4,7-9

Q:STRESS15

T:

Have you noticed any other pavement distresses on F-mix asphalt
in your (district / area)?

1 YES

2 NO --> SKIPTO FOGSEAL

7 REFUSED --> SKIPTO FOGSEAL

8 DON'T KNOW --> SKIPTO FOGSEAL

9 NO ANSWER --> SKIPTO FOGSEAL

I:

key 1,2,7-9

if (ans > 1) skipto FOGSEAL

Q:STRSS15A

T:

What are those [other distresses you have seen]?

PROBE FOR MULTIPLE ANSWERS: Which one is most common or problematic?

OPEN-ENDED

PLEASE TYPE IN EXACT RESPONSE BELOW

NOTE: RECORD OTHERS UNDER INTERVIEWER OBSERVATIONS.

I:

opn 10 5 25 70

Q:STRSS15B

T:

Is it rare, scattered, or pervasive [on F-mix pavement
in your (district / area)]?

1 [DO NOT USE --> CATEGORY REMOVED FOR CONSISTENCY WITH OTHER Q'S]

2 RARE

3 SCATTERED

4 PERVASIVE

7 REFUSED

8 DON'T KNOW

9 NO ANSWER

I:

key 2-4,7-9

Q:FOGSEAL

T:

Do you ever use fog-seals on F-mix for maintenance in your (district / area)?

PROBE: Fog-seal is a thin liquid coating of asphalt that seals
and rejuvenates asphalt binder.

1 YES

2 NO --> SKIPTO PREVEN1

7 REFUSED --> SKIPTO PREVEN1

8 DON'T KNOW --> SKIPTO PREVEN1

9 NO ANSWER --> SKIPTO PREVEN1

I:

key 1,2,7-9

if (ans > 1) skipto PREVEN1

Q:FOGPCT

T:

What percentage of the F-mix paved roads are fog sealed
in your (district / area)?

PROBE: Would you say fifty percent? Thirty-three percent?
Twenty-five percent? Something else?

OPEN-ENDED NUMBER.

ENTER EXACT NUMBER, NO DECIMALS 5-95.

96 --> 96 PERCENT OR MORE

97 REFUSED
98 DON'T KNOW
99 NO ANSWER
I:
num 1 99 2 0 25 25

Q:FOGOFT
T:
How often are those pavements fog-sealed, on average?

PROBE: Would you say every year, every three years,
[every five years,] [or something else]?

OPEN-ENDED NUMBER.

ENTER EXACT NUMBER, NO DECIMALS 1-20.

96 --> OTHER--SPECIFY

97 REFUSED
98 DON'T KNOW
99 NO ANSWER
I:
num 1 99 2 0 25 25
oth 96 17 30 22 70
if (ans > 20)
if (ans < 96) REASK
endif

Q:FOGLONG1
T:
Do you have any convincing evidence that
fog sealing prolongs the life of F-mix?

1 YES
2 NO --> SKIPTO FOGLONG2

7 REFUSED --> SKIPTO FOGLONG2
8 DON'T KNOW --> SKIPTO FOGLONG2
9 NO ANSWER --> SKIPTO FOGLONG2
I:
key 1,2,7-9
if (ans > 1) skipto FOGLONG2

Q:FOGLONGA
T:
What is that [evidence that fog sealing prolongs
the life of F-mix]?

OPEN-ENDED

PLEASE TYPE IN EXACT RESPONSE BELOW
I:
opn 10 5 25 70

Q:FOGLONG2

T:

Do you have any convincing evidence that fog sealing does not prolong the life of F-mix?

1 YES

2 NO --> SKIPTO PREVEN1

7 REFUSED --> SKIPTO PREVEN1

8 DON'T KNOW --> SKIPTO PREVEN1

9 NO ANSWER --> SKIPTO PREVEN1

I:

key 1,2,7-9

if (ans > 1) skipto PREVEN1

Q:FOGLONGB

T:

What is that [evidence that fog sealing does not prolong the life of F-mix]?

OPEN-ENDED

PLEASE TYPE IN EXACT RESPONSE BELOW

I:

opn 10 5 25 70

Q:PREVEN1

T:

From your years of experience, what do you believe is the best preventative maintenance for F-mix?

OPEN-ENDED

PLEASE TYPE IN EXACT RESPONSE BELOW

I:

opn 10 5 25 70

Q:PREVEN2

T:

Do you have any ideas about how preventative maintenance for F-mix could be improved?

PROBE FOR GEOGRAPHIC AREA: Anywhere F-mix is used [not just in your (district / area)].

1 YES

2 NO --> SKIPTO QUANT1

7 REFUSED --> SKIPTO QUANT1

8 DON'T KNOW --> SKIPTO QUANT1

9 NO ANSWER --> SKIPTO QUANT1

I:

key 1,2,7-9

if (ans > 1) skipto QUANT1

Q:PREVENA

T:

What are those [ideas you have [for how to improve preventative maintenance for F-mix]]?

OPEN-ENDED

PLEASE TYPE IN EXACT RESPONSE BELOW

I:

opn 10 5 25 70

Q:QUANT1

T:

[We are over halfway done with the survey now, and I would like to thank you sincerely for your time and effort so far.] Now, please think about your local suppliers of F-mix. If they are not already producing F-mix for a construction contract, will they provide you with less than sixty tons?

PROBE: Will they make you a special batch of F-mix that is less than 60 tons?

1 YES

2 NO --> SKIPTO SUCC1

7 REFUSED --> SKIPTO SUCC1

8 DON'T KNOW --> SKIPTO SUCC1

9 NO ANSWER --> SKIPTO SUCC1

I:

key 1,2,7-9

if (ans > 1) skipto SUCC1

Q:QUANT2

T:

Will they supply you with less than thirty tons?

1 YES

2 NO --> SKIPTO SUCC1

7 REFUSED --> SKIPTO SUCC1

8 DON'T KNOW --> SKIPTO SUCC1

9 NO ANSWER --> SKIPTO SUCC1

I:

key 1,2,7-9

if (ans > 1) skipto SUCC1

Q:QUANT3

T:

Will they supply you with less than ten tons?

1 YES

2 NO

7 REFUSED

8 DON'T KNOW

9 NO ANSWER

I:

key 1,2,7-9

Q:SUC1

T:

Now I need to ask you about the success of various maintenance techniques you use. The first one is screed patching with C-mix over F-mix.

Generally speaking, is this maintenance technique not at all successful, not very successful, somewhat successful, or completely successful?

PROBE: By screed patching we mean using a box that you drag behind a truck to level a pile of material.

- 1 NOT AT ALL SUCCESSFUL
- 2 NOT VERY SUCCESSFUL
- 3 SOMEWHAT SUCCESSFUL
- 4 COMPLETELY SUCCESSFUL
- 5 [IF VOLUNTEERED] HAVE NOT USED
- 6 [IF VOLUNTEERED] IT DEPENDS

- 7 REFUSED
- 8 DON'T KNOW
- 9 NO ANSWER

I:

key 1-9

Q:SUCC2

T:

How successful is screed patching with D-mix over F-mix?

PROBE: [Generally speaking, is this maintenance technique] not at all successful, not very successful, somewhat successful, or completely successful?

PROBE: By screed patching we mean using a box that you drag behind a truck to level a pile of material.

- 1 NOT AT ALL SUCCESSFUL
- 2 NOT VERY SUCCESSFUL
- 3 SOMEWHAT SUCCESSFUL
- 4 COMPLETELY SUCCESSFUL
- 5 [IF VOLUNTEERED] HAVE NOT USED
- 6 [IF VOLUNTEERED] IT DEPENDS

- 7 REFUSED
- 8 DON'T KNOW
- 9 NO ANSWER

I:

key 1-9

Q:SUCC3

T:

[(What about / How successful is)] blade patching with C-mix over F-mix?

PROBE: [Generally speaking, is this maintenance technique] not at all successful, not very successful, somewhat successful, or completely successful?

PROBE: By blade patching we mean using grader blade, like a snowplow, to level a pile of asphalt.

- 1 NOT AT ALL SUCCESSFUL

2 NOT VERY SUCCESSFUL
3 SOMEWHAT SUCCESSFUL
4 COMPLETELY SUCCESSFUL
5 [IF VOLUNTEERED] HAVE NOT USED
6 [IF VOLUNTEERED] IT DEPENDS

7 REFUSED
8 DON'T KNOW
9 NO ANSWER

I:

key 1-9

Q:SUCC4

T:

[(What about / How successful is)] blade patching with D-mix over F-mix?

PROBE: [Generally speaking, is this maintenance technique]
not at all successful, not very successful, somewhat successful,
or completely successful?

PROBE: By blade patching we mean using grader blade, like a snowplow,
to level a pile of asphalt.

1 NOT AT ALL SUCCESSFUL
2 NOT VERY SUCCESSFUL
3 SOMEWHAT SUCCESSFUL
4 COMPLETELY SUCCESSFUL
5 [IF VOLUNTEERED] HAVE NOT USED
6 [IF VOLUNTEERED] IT DEPENDS

7 REFUSED
8 DON'T KNOW
9 NO ANSWER

I:

key 1-9

Q:SUCC5

T:

[(What about / How successful is)] machine patching with B-mix over F-mix?

PROBE: [Generally speaking, is this maintenance technique]
not at all successful, not very successful, somewhat successful,
or completely successful?

PROBE: By machine patching we mean using a paving machine.

1 NOT AT ALL SUCCESSFUL
2 NOT VERY SUCCESSFUL
3 SOMEWHAT SUCCESSFUL
4 COMPLETELY SUCCESSFUL
5 [IF VOLUNTEERED] HAVE NOT USED
6 [IF VOLUNTEERED] IT DEPENDS

7 REFUSED
8 DON'T KNOW
9 NO ANSWER

I:

key 1-9

Q:SUCC6

T:

[(What about / How successful is)] machine patching with C-mix over F-mix?

PROBE: [Generally speaking, is this maintenance technique]
not at all successful, not very successful, somewhat successful,
or completely successful?

PROBE: By machine patching we mean using a paving machine.

- 1 NOT AT ALL SUCCESSFUL
- 2 NOT VERY SUCCESSFUL
- 3 SOMEWHAT SUCCESSFUL
- 4 COMPLETELY SUCCESSFUL
- 5 [IF VOLUNTEERED] HAVE NOT USED
- 6 [IF VOLUNTEERED] IT DEPENDS

- 7 REFUSED
- 8 DON'T KNOW
- 9 NO ANSWER

I:

key 1-9

Q:SUCC7

T:

[(What about / How successful is)] machine patching with F-mix over F-mix?

PROBE: [Generally speaking, is this maintenance technique]
not at all successful, not very successful, somewhat successful,
or completely successful?

PROBE: By machine patching we mean using a paving machine.

- 1 NOT AT ALL SUCCESSFUL
- 2 NOT VERY SUCCESSFUL
- 3 SOMEWHAT SUCCESSFUL
- 4 COMPLETELY SUCCESSFUL
- 5 [IF VOLUNTEERED] HAVE NOT USED
- 6 [IF VOLUNTEERED] IT DEPENDS

- 7 REFUSED
- 8 DON'T KNOW
- 9 NO ANSWER

I:

key 1-9

Q:SUCC8

T:

[(What about / How successful is)] inlay patching with C-mix?

PROBE: [Generally speaking, is this maintenance technique]
not at all successful, not very successful, somewhat successful,
or completely successful?

- 1 NOT AT ALL SUCCESSFUL
- 2 NOT VERY SUCCESSFUL
- 3 SOMEWHAT SUCCESSFUL

4 COMPLETELY SUCCESSFUL
5 [IF VOLUNTEERED] HAVE NOT USED
6 [IF VOLUNTEERED] IT DEPENDS

7 REFUSED
8 DON'T KNOW
9 NO ANSWER

I:
key 1-9

Q:SUCC9

T:
[(What about / How successful is)] inlay patching with F-mix?

PROBE: [Generally speaking, is this maintenance technique]
not at all successful, not very successful, somewhat successful,
or completely successful?

1 NOT AT ALL SUCCESSFUL
2 NOT VERY SUCCESSFUL
3 SOMEWHAT SUCCESSFUL
4 COMPLETELY SUCCESSFUL
5 [IF VOLUNTEERED] HAVE NOT USED
6 [IF VOLUNTEERED] IT DEPENDS

7 REFUSED
8 DON'T KNOW
9 NO ANSWER

I:
key 1-9

Q:SUCC10

T:
(What about / How successful is) a procedure where you apply tack
to the repair area, place open-graded rock in the repair area,
spray with liquid asphalt, and then compact it.

PROBE: [Generally speaking, is this maintenance technique]
not at all successful, not very successful, somewhat successful,
or completely successful?

1 NOT AT ALL SUCCESSFUL
2 NOT VERY SUCCESSFUL
3 SOMEWHAT SUCCESSFUL
4 COMPLETELY SUCCESSFUL
5 [IF VOLUNTEERED] HAVE NOT USED
6 [IF VOLUNTEERED] IT DEPENDS

7 REFUSED
8 DON'T KNOW
9 NO ANSWER

I:
key 1-9

Q:SUCC11

T:

[(What about / How successful is)] an emulsion chip seal?

PROBE: [Generally speaking, is this maintenance technique]
not at all successful, not very successful, somewhat successful,
or completely successful?

1 NOT AT ALL SUCCESSFUL
2 NOT VERY SUCCESSFUL
3 SOMEWHAT SUCCESSFUL
4 COMPLETELY SUCCESSFUL
5 [IF VOLUNTEERED] HAVE NOT USED
6 [IF VOLUNTEERED] IT DEPENDS

7 REFUSED
8 DON'T KNOW
9 NO ANSWER

I:

key 1-9

Q:SUCC12

T:

[(What about / How successful is)] hot asphalt chip seal?

PROBE: [Generally speaking, is this maintenance technique]
not at all successful, not very successful, somewhat successful,
or completely successful?

1 NOT AT ALL SUCCESSFUL
2 NOT VERY SUCCESSFUL
3 SOMEWHAT SUCCESSFUL
4 COMPLETELY SUCCESSFUL
5 [IF VOLUNTEERED] HAVE NOT USED
6 [IF VOLUNTEERED] IT DEPENDS

7 REFUSED
8 DON'T KNOW
9 NO ANSWER

I:

key 1-9

Q:SUCC13

T:

[(What about / How successful is)] crack sealing?

PROBE: Is this generally not at all successful, not very successful,
somewhat successful, or completely successful?

1 NOT AT ALL SUCCESSFUL
2 NOT VERY SUCCESSFUL
3 SOMEWHAT SUCCESSFUL
4 COMPLETELY SUCCESSFUL
5 [IF VOLUNTEERED] HAVE NOT USED
6 [IF VOLUNTEERED] IT DEPENDS

7 REFUSED
8 DON'T KNOW

9 NO ANSWER

I:

key 1-9

Q:SUCC14

T:

[(What about / How successful is)] profiling with a grinder?

PROBE: [Generally speaking, is this maintenance technique]
not at all successful, not very successful, somewhat successful,
or completely successful?

1 NOT AT ALL SUCCESSFUL

2 NOT VERY SUCCESSFUL

3 SOMEWHAT SUCCESSFUL

4 COMPLETELY SUCCESSFUL

5 [IF VOLUNTEERED] HAVE NOT USED

6 [IF VOLUNTEERED] IT DEPENDS

7 REFUSED

8 DON'T KNOW

9 NO ANSWER

I:

key 1-9

Q:SUCC15

T:

[(What about / How successful is)] pot hole repair with pre-mix?

PROBE: [Generally speaking, is this maintenance technique]
not at all successful, not very successful, somewhat successful,
or completely successful?

1 NOT AT ALL SUCCESSFUL

2 NOT VERY SUCCESSFUL

3 SOMEWHAT SUCCESSFUL

4 COMPLETELY SUCCESSFUL

5 [IF VOLUNTEERED] HAVE NOT USED

6 [IF VOLUNTEERED] IT DEPENDS

7 REFUSED

8 DON'T KNOW

9 NO ANSWER

I:

key 1-9

Q:SUCC16

T:

[(What about / How successful is)] placing aggregate in a pothole,
spraying with Percol, and letting it set?

PROBE: [Generally speaking, is this maintenance technique]
not at all successful, not very successful, somewhat successful,
or completely successful?

1 NOT AT ALL SUCCESSFUL

2 NOT VERY SUCCESSFUL
3 SOMEWHAT SUCCESSFUL
4 COMPLETELY SUCCESSFUL
5 [IF VOLUNTEERED] HAVE NOT USED
6 [IF VOLUNTEERED] IT DEPENDS

7 REFUSED
8 DON'T KNOW
9 NO ANSWER

I:
key 1-9

Q:SUCC17

T:
Have you ever used any other kind of road maintenance technique
in your (District/Area) [than those I just asked you about]?

NOTE: AT ANY TIME, ON ANY JOB

1 YES
2 NO --> SKIPTO WINMIX

7 REFUSED --> SKIPTO WINMIX
8 DON'T KNOW --> SKIPTO WINMIX
9 NO ANSWER --> SKIPTO WINMIX

I:
key 1,2,7-9
If (ANS <> 1) Skipto WINMIX

Q:SUCC17A

T:
What is that [other kind of road maintenance technique that you have used]?

OPEN-ENDED

PLEASE TYPE IN EXACT RESPONSE BELOW

I:
opn 10 5 25 70

Q:SUCC17B

T:
Generally speaking, is this maintenance technique not at all successful,
not very successful, somewhat successful, or completely successful?

1 NOT AT ALL SUCCESSFUL
2 NOT VERY SUCCESSFUL
3 SOMEWHAT SUCCESSFUL
4 COMPLETELY SUCCESSFUL
5 [DO NOT USE --> CATEGORY REMOVED FOR CONSISTENCY WITH OTHER Q'S]
6 [IF VOLUNTEERED] IT DEPENDS

7 REFUSED
8 DON'T KNOW
9 NO ANSWER

I:
key 1-4,6-9

Q:WINMIX

T:

I need to end the survey by asking you three open-ended questions.

As you know, winter maintenance for F-mix presents different challenges than winter maintenance for dense-graded asphalt concrete pavements.

What procedures have you found to be effective in maintaining F-mix pavements during the winter?

PROBE: Is there anything else?

OPEN-ENDED

PLEASE TYPE IN EXACT RESPONSE BELOW

I:

opn 12 5 25 70

Q:BEST

T:

From your perspective, what is the one best thing about F-mix asphalt?

OPEN-ENDED

PLEASE TYPE IN EXACT RESPONSE BELOW

I:

opn 10 5 25 70

Q:IMPROVE

T:

If there is one thing you could change or improve about F-mix, what would it be?

OPEN-ENDED

PLEASE TYPE IN EXACT RESPONSE BELOW

I:

opn 15 5 25 70

Q:ENDING

T:

That is the end of the survey. On behalf of ODOT, I'd like to thank you sincerely for your time and opinions on these questions. Good-bye.

KEY "1" TO CONTINUE

I:

key 1

Q:INTOBS

T:

CONGRATULATIONS, INTERVIEWER! YOU HAVE COMPLETED THE INTERVIEW!

PLEASE WRITE ANY COMMENTS BELOW.

I:

opn 10 5 25 70

Q:INTID

T:

PLEASE ENTER YOUR I.D. NUMBER BELOW TO FINISH THE INTERVIEW.

I:

num 1 700 3 0 25 25

CPL

DISPOS = 26

ENDQUEST

Q:NOQAL

T:

ALL RESPONDENTS PREQUALIFIED--YOU SHOULD NEVER SEE THIS MESSAGE

I:

key 1

CPL

DISPOS = 22

ENDQUEST