
University: North Dakota State University

Grant #: DTRT13-G-UTC38 (MPC-371,409, 446-532)

Reporting Period: October 1, 2017 - September 30, 2018

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University Transportation Centers Program Performance Indicators
Mountain Plains Consortium
University Transportation Centers (UTC's)
DTRT13-G-UTC38 (MPC-371,409, 446-532)
October 1, 2017 - September 30, 2018

Performance Indicators

1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.

Undergraduate Courses	43
Graduate Courses	88

2. Number of students participating in transportation research projects funded by this grant.

Undergraduate Students	15
Graduate Students	80

3. Number of transportation-related advance degree programs that utilize grant funds to support graduate students.

Master's Level Programs	18
Doctoral Level Programs	19

4. Number of graduate students supported by this grant.

Undergraduate Students	6
Master's Student	26
Doctoral Student	49

5. Number of student supported by this grant who received degrees.

Undergraduate Students	6
Master's Level Programs	22
Doctoral Level Programs	14

6. Number and total dollar value of research projected selected for funding using UTC grant funds (Federal and/or Recipient Share) that you consider to be applied research and advanced research.

Number of applied research projects	95
Dollar value of applied research projects	\$7,717,600.00
Number of advanced research projects	-
Dollar value of advanced research projects	-

UTC Specific Indicators

Research

1. Number of transportation research projects selected.	95
2. Total matching dollar leveraged for research.	\$7,717,600.00
3. Number of faculty members involved in research projects.	50
4. Number of undergraduate students involved in UTC-funded research projects.	13
5. Number of master's degree students involved in UTC-funded research projects.	31
6. Number of doctoral students involved in UTC-funded research projects.	53
7. Number of peer reviewed MPC research reports published.	23
8. Number of peer-reviewed journal articles published by faculty.	85
9. Number of peer-reviewed conference papers published by faculty.	48
10. Number of peer-reviewed journal articles or conference papers authored or co-authored by graduate students.	102

Leadership

1. Number of journal editions published by MPC Universities.	9
2. Number of MPC faculty serving on editorial board of journals.	16
3. Number of MPC faculty members serving on committees (or as friends of	30
4. Number of awards received by MPC faculty or programs.	20
5. Number of conferences and workshops help or sponsored by MPC Universities.	74

6. Number of unique organizations represented at MPC sponsored conferences and workshops.	0
7. Number of individuals attending MPC conferences and workshops.	2,903
8. Number of peer-reviewed journal articles and conference papers presented.	82

Education and Workforce Development

1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.

Undergraduate Courses	43
Graduate Courses	88
Total	131

2. Number of students participating in transportation research projects funded by this grant.

Undergraduate Students	15
Graduate Students	80
Total	95

3. Number of transportation-related advance degree programs that utilize grant funds to support graduate students.

Master's Level Programs	18
Doctoral Level Programs	19
Total	37

4. Number of graduate students supported by this grant.

Master's Level Student Stipends	26
Doctoral Level Student Stipends	49
Total	75

5. Number of student supported by this grant who received degrees.

Master's Level Student Stipends	21
Doctoral Level Student Stipends	15
Total	36

6. Number of outreach events conducted for K-12 audiences.

10

7. Number of graduate courses (included in measure one) that are offered online.

24

Technology Transfer

1. Number of transportation seminars, symposia, distance learning classes, etc. conducted by transportation professionals.

54

2. Number of transportation professionals participating in those events.

4218

3. Number of annual reports and newsletters published.

43

Collaboration

1. Number of internal meetings, videoconferences, or telephone conferences of the MPC executive committee to discuss program administration and plans for collaboration among the universities.

22

2. Number of projects involving faculty or students from more than one university.

10

3. Number of students participating in MPC graduate student symposia.

0

4. Number of faculty members who hold affiliated faculty status at other MPC universities.

1

5. Number of collaborative research projects involving faculty and students from more than one MPC university.

6

6. Number of collaborative conference or workshops involving several universities, agencies, or LTAP center.

30

University Transportation Centers Program Performance Indicators
North Dakota State University
University Transportation Centers (UTC's)
DTRT13-G-UTC38 (MPC-371,409, 446-532)
October 1, 2017 - September 30, 2018

Performance Indicators

1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.

Undergraduate Courses	0
Graduate Courses	18

2. Number of students participating in transportation research projects funded by this grant.

Undergraduate Students	0
Graduate Students	25

3. Number of transportation-related advance degree programs that utilize grant funds to support graduate students.

Master's Level Programs	2
Doctoral Level Programs	1

4. Number of graduate students supported by this grant.

Undergraduate Students	0
Master's Student	1
Doctoral Student	25

5. Number of student supported by this grant who received degrees.

Undergraduate Students	0
Master's Level Programs	4
Doctoral Level Programs	4

6. Number and total dollar value of research projected selected for funding using UTC grant funds (Federal and/or Recipient Share) that you consider to be applied research and advanced research.

Number of applied research projects	11
Dollar value of applied research projects	\$2,240,908.00
Number of advanced research projects	-
Dollar value of advanced research projects	-

UTC Specific Indicators

Research

1. Number of transportation research projects selected.	11
2. Total matching dollar leveraged for research.	\$2,240,908.00
3. Number of faculty members involved in research projects.	14
4. Number of undergraduate students involved in UTC-funded research projects.	0
5. Number of master's degree students involved in UTC-funded research projects.	1
6. Number of doctoral students involved in UTC-funded research projects.	24
7. Number of peer reviewed MPC research reports published.	2
8. Number of peer-reviewed journal articles published by faculty.	13
9. Number of peer-reviewed conference papers published by faculty.	14
10. Number of peer-reviewed journal articles or conference papers authored or co-authored by graduate students.	20

Leadership

1. Number of journal editions published by MPC Universities.	2
2. Number of MPC faculty serving on editorial board of journals.	3
3. Number of MPC faculty members serving on committees (or as friends of committees) for organizations such as TRB, TRF, ASCE, ITE, etc.	4
4. Number of awards received by MPC faculty or programs.	5
5. Number of conferences and workshops help or sponsored by MPC Universities.	54
6. Number of unique organizations represented at MPC sponsored conferences and workshops.	0
7. Number of individuals attending MPC conferences and workshops.	2899
8. Number of peer-reviewed journal articles and conference papers presented.	20

Education and Workforce Development

1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.

Undergraduate Courses	0
Graduate Courses	18
Total	18

2. Number of students participating in transportation research projects funded by this grant.

Undergraduate Students	0
Graduate Students	25
Total	25

3. Number of transportation-related advance degree programs that utilize grant funds to support graduate students.

Master's Level Programs	2
Doctoral Level Programs	1
Total	3

4. Number of graduate students supported by this grant.

Master's Level Student Stipends	1
Doctoral Level Student Stipends	25
Total	26

5. Number of student supported by this grant who received degrees.

Master's Level Student Stipends	4
Doctoral Level Student Stipends	4
Total	8

6. Number of outreach events conducted for K-12 audiences.

3

7. Number of graduate courses (included in measure one) that are offered online.

18

Technology Transfer

1. Number of transportation seminars, symposia, distance learning classes, etc. conducted by transportation professionals.

21

2. Number of transportation professionals participating in those events.

2899

3. Number of annual reports and newsletters published.

33

Collaboration

1. Number of internal meetings, videoconferences, or telephone conferences of the MPC executive committee to discuss program administration and plans for collaboration among the universities.

8

2. Number of projects involving faculty or students from more than one university.

2

3. Number of students participating in MPC graduate student symposia.

0

4. Number of faculty members who hold affiliated faculty status at other MPC universities.

0

5. Number of collaborative research projects involving faculty and students from more than one MPC university.

2

6. Number of collaborative conference or workshops involving several universities, agencies, or LTAP center.

0

University Transportation Centers Program Performance Indicators
South Dakota State University
University Transportation Centers (UTC's)
DTRT13-G-UTC38 (MPC-371,409, 446-532)
October 1, 2017 - September 30, 2018

Performance Indicators

1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.

Undergraduate Courses	15
Graduate Courses	14

2. Number of students participating in transportation research projects funded by this grant.

Undergraduate Students	1
Graduate Students	9

3. Number of transportation-related advance degree programs that utilize grant funds to support graduate students.

Master's Level Programs	1
Doctoral Level Programs	1

4. Number of graduate students supported by this grant.

Undergraduate Students	2
Master's Student	9
Doctoral Student	0

5. Number of student supported by this grant who received degrees.

Undergraduate Students	0
Master's Level Programs	5
Doctoral Level Programs	0

6. Number and total dollar value of research projected selected for funding using UTC grant funds (Federal and/or Recipient Share) that you consider to be applied research and advanced research.

Number of applied research projects	13
Dollar value of applied research projects	\$939,093.00
Number of advanced research projects	-
Dollar value of advanced research projects	-

UTC Specific Indicators

Research

1. Number of transportation research projects selected.	13
2. Total matching dollar leveraged for research.	\$939,093.00
3. Number of faculty members involved in research projects.	7
4. Number of undergraduate students involved in UTC-funded research projects.	2
5. Number of master's degree students involved in UTC-funded research projects.	8
6. Number of doctoral students involved in UTC-funded research projects.	1
7. Number of peer reviewed MPC research reports published.	5
8. Number of peer-reviewed journal articles published by faculty.	9
9. Number of peer-reviewed conference papers published by faculty.	2
10. Number of peer-reviewed journal articles or conference papers authored or co-authored by graduate students.	15

Leadership

1. Number of journal editions published by MPC Universities.	0
2. Number of MPC faculty serving on editorial board of journals.	1
3. Number of MPC faculty members serving on committees (or as friends of committees) for organizations such as TRB, TRF, ASCE, ITE, etc.	3
4. Number of awards received by MPC faculty or programs.	3
5. Number of conferences and workshops help or sponsored by MPC Universities.	0
6. Number of unique organizations represented at MPC sponsored conferences and workshops.	0
7. Number of individuals attending MPC conferences and workshops.	0
8. Number of peer-reviewed journal articles and conference papers presented.	17

Education and Workforce Development

1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.

Undergraduate Courses	15
Graduate Courses	14
Total	29

2. Number of students participating in transportation research projects funded by this grant.

Undergraduate Students	1
Graduate Students	9
Total	10

3. Number of transportation-related advance degree programs that utilize grant funds to support graduate students.

Master's Level Programs	1
Doctoral Level Programs	1
Total	2

4. Number of graduate students supported by this grant.

Master's Level Student Stipends	9
Doctoral Level Student Stipends	0
Total	9

5. Number of student supported by this grant who received degrees.

Master's Level Student Stipends	5
Doctoral Level Student Stipends	0
Total	5

6. Number of outreach events conducted for K-12 audiences.

0

7. Number of graduate courses (included in measure one) that are offered online.

0

Technology Transfer

1. Number of transportation seminars, symposia, distance learning classes, etc. conducted by transportation professionals.

0

2. Number of transportation professionals participating in those events.

0

3. Number of annual reports and newsletters published.

0

Collaboration

1. Number of internal meetings, videoconferences, or telephone conferences of the MPC executive committee to discuss program administration and plans for collaboration among the universities.

2

2. Number of projects involving faculty or students from more than one university.

0

3. Number of students participating in MPC graduate student symposia.

0

4. Number of faculty members who hold affiliated faculty status at other MPC universities.

1

5. Number of collaborative research projects involving faculty and students from more than one MPC university.

0

6. Number of collaborative conference or workshops involving several universities, agencies, or LTAP center.

University Transportation Centers Program Performance Indicators
Colorado State University
University Transportation Centers (UTC's)
DTRT13-G-UTC38 (MPC-371,409, 446-532)
October 1, 2017 - September 30, 2018

Performance Indicators

1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.

Undergraduate Courses	<u>6</u>
Graduate Courses	<u>5</u>

2. Number of students participating in transportation research projects funded by this grant.

Undergraduate Students	<u>0</u>
Graduate Students	<u>6</u>

3. Number of transportation-related advance degree programs that utilize grant funds to support graduate students.

Master's Level Programs	<u>3</u>
Doctoral Level Programs	<u>3</u>

4. Number of graduate students supported by this grant.

Undergraduate Students	<u>0</u>
Master's Student	<u>5</u>
Doctoral Student	<u>5</u>

5. Number of student supported by this grant who received degrees.

Undergraduate Students	<u>0</u>
Master's Level Programs	<u>3</u>
Doctoral Level Programs	<u>2</u>

6. Number and total dollar value of research projected selected for funding using UTC grant funds (Federal and/or Recipient Share) that you consider to be applied research and advanced research.

Number of applied research projects	20
Dollar value of applied research projects	\$939,093.00
Number of advanced research projects	-
Dollar value of advanced research projects	-

UTC Specific Indicators

Research

1. Number of transportation research projects selected.	20
2. Total matching dollar leveraged for research.	\$939,093.00
3. Number of faculty members involved in research projects.	3
4. Number of undergraduate students involved in UTC-funded research projects.	0
5. Number of master's degree students involved in UTC-funded research projects.	5
6. Number of doctoral students involved in UTC-funded research projects.	6
7. Number of peer reviewed MPC research reports published.	5
8. Number of peer-reviewed journal articles published by faculty.	12
9. Number of peer-reviewed conference papers published by faculty.	3
10. Number of peer-reviewed journal articles or conference papers authored or co-authored by graduate students.	14

Leadership

1. Number of journal editions published by MPC Universities.	7
2. Number of MPC faculty serving on editorial board of journals.	4
3. Number of MPC faculty members serving on committees (or as friends of committees) for organizations such as TRB, TRF, ASCE, ITE, etc.	4
4. Number of awards received by MPC faculty or programs.	6
5. Number of conferences and workshops help or sponsored by MPC Universities.	0
6. Number of unique organizations represented at MPC sponsored conferences and workshops.	0
7. Number of individuals attending MPC conferences and workshops.	4
8. Number of peer-reviewed journal articles and conference papers presented.	15

Education and Workforce Development

1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.

Undergraduate Courses	6
Graduate Courses	5
Total	11

2. Number of students participating in transportation research projects funded by this grant.

Undergraduate Students	0
Graduate Students	6
Total	6

3. Number of transportation-related advance degree programs that utilize grant funds to support graduate students.

Master's Level Programs	3
Doctoral Level Programs	3
Total	6

4. Number of graduate students supported by this grant.

Master's Level Student Stipends	5
Doctoral Level Student Stipends	5
Total	10

5. Number of student supported by this grant who received degrees.

Master's Level Student Stipends	3
Doctoral Level Student Stipends	2
Total	5

6. Number of outreach events conducted for K-12 audiences.

1

7. Number of graduate courses (included in measure one) that are offered online.

0

Technology Transfer

1. Number of transportation seminars, symposia, distance learning classes, etc. conducted by transportation professionals.

0

2. Number of transportation professionals participating in those events.

0

3. Number of annual reports and newsletters published.

0

Collaboration

1. Number of internal meetings, videoconferences, or telephone conferences of the MPC executive committee to discuss program administration and plans for collaboration among the universities.

1

2. Number of projects involving faculty or students from more than one university.

1

3. Number of students participating in MPC graduate student symposia.

0

4. Number of faculty members who hold affiliated faculty status at other MPC universities.

0

5. Number of collaborative research projects involving faculty and students from more than one MPC university.

1

6. Number of collaborative conference or workshops involving several universities, agencies, or LTAP center.

0

University Transportation Centers Program Performance Indicators
University of Colorado Denver
University Transportation Centers (UTC's)
DTRT13-G-UTC38 (MPC-371,409, 446-532)
October 1, 2017 - September 30, 2018

Performance Indicators

1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.

Undergraduate Courses	<u>3</u>
Graduate Courses	<u>12</u>

2. Number of students participating in transportation research projects funded by this grant.

Undergraduate Students	<u>2</u>
Graduate Students	<u>10</u>

3. Number of transportation-related advance degree programs that utilize grant funds to support graduate students.

Master's Level Programs	<u>3</u>
Doctoral Level Programs	<u>3</u>

4. Number of graduate students supported by this grant.

Undergraduate Students	<u>2</u>
Master's Student	<u>2</u>
Doctoral Student	<u>6</u>

5. Number of student supported by this grant who received degrees.

Undergraduate Students	<u>0</u>
Master's Level Programs	<u>2</u>
Doctoral Level Programs	<u>2</u>

6. Number and total dollar value of research projected selected for funding using UTC grant funds (Federal and/or Recipient Share)

that you consider to be applied research and advanced research.

Number of applied research projects	9
Dollar value of applied research projects	\$686,121.00
Number of advanced research projects	-
Dollar value of advanced research projects	-

UTC Specific Indicators

Research

1. Number of transportation research projects selected.	9
2. Total matching dollar leveraged for research.	\$686,121.00
3. Number of faculty members involved in research projects.	7
4. Number of undergraduate students involved in UTC-funded research projects.	2
5. Number of master's degree students involved in UTC-funded research projects.	5
6. Number of doctoral students involved in UTC-funded research projects.	5
7. Number of peer reviewed MPC research reports published.	2
8. Number of peer-reviewed journal articles published by faculty.	31
9. Number of peer-reviewed conference papers published by faculty.	14
10. Number of peer-reviewed journal articles or conference papers authored or co-authored by graduate students.	26

Leadership

1. Number of journal editions published by MPC Universities.	0
2. Number of MPC faculty serving on editorial board of journals.	2
3. Number of MPC faculty members serving on committees (or as friends of committees) for organizations such as TRB, TRF, ASCE, ITE, etc.	4
4. Number of awards received by MPC faculty or programs.	1
5. Number of conferences and workshops help or sponsored by MPC Universities.	0
6. Number of unique organizations represented at MPC sponsored conferences and workshops.	0
7. Number of individuals attending MPC conferences and workshops.	0

8. Number of peer-reviewed journal articles and conference papers presented.	14
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Education and Workforce Development

1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.

Undergraduate Courses	3
Graduate Courses	12
Total	15

2. Number of students participating in transportation research projects funded by this grant.

Undergraduate Students	2
Graduate Students	10
Total	12

3. Number of transportation-related advance degree programs that utilize grant funds to support graduate students.

Master's Level Programs	3
Doctoral Level Programs	3
Total	6

4. Number of graduate students supported by this grant.

Master's Level Student Stipends	2
Doctoral Level Student Stipends	6
Total	8

5. Number of student supported by this grant who received degrees.

Master's Level Student Stipends	2
Doctoral Level Student Stipends	2
Total	4

6. Number of outreach events conducted for K-12 audiences.

0

7. Number of graduate courses (included in measure one) that are offered online.

6

Technology Transfer

1. Number of transportation seminars, symposia, distance learning classes, etc. conducted by transportation professionals.

0

2. Number of transportation professionals participating in those events.

0

3. Number of annual reports and newsletters published.

2

Collaboration

1. Number of internal meetings, videoconferences, or telephone conferences of the MPC executive committee to discuss program administration and plans for collaboration among the universities.

4

2. Number of projects involving faculty or students from more than one university.	3
3. Number of students participating in MPC graduate student symposia.	0
4. Number of faculty members who hold affiliated faculty status at other MPC universities.	0
5. Number of collaborative research projects involving faculty and students from more than one MPC university.	2
6. Number of collaborative conference or workshops involving several universities, agencies, or LTAP center.	0

University Transportation Centers Program Performance Indicators
University of Denver
University Transportation Centers (UTC's)
DTRT13-G-UTC38 (MPC-371,409, 446-532)
October 1, 2017 - September 30, 2018

Performance Indicators

1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.

Undergraduate Courses	<u>0</u>
Graduate Courses	<u>23</u>

2. Number of students participating in transportation research projects funded by this grant.

Undergraduate Students	<u>1</u>
Graduate Students	<u>2</u>

3. Number of transportation-related advance degree programs that utilize grant funds to support graduate students.

Master's Level Programs	<u>2</u>
Doctoral Level Programs	<u>1</u>

4. Number of graduate students supported by this grant.

Undergraduate Students	<u>0</u>
Master's Student	<u>0</u>
Doctoral Student	<u>2</u>

5. Number of student supported by this grant who received degrees.

Undergraduate Students	<u>0</u>
Master's Level Programs	<u>0</u>
Doctoral Level Programs	<u>0</u>

6. Number and total dollar value of research projected selected for funding using UTC grant funds (Federal and/or Recipient Share) that you consider to be applied research and advanced research.

Number of applied research projects	2
Dollar value of applied research projects	\$351,893.00
Number of advanced research projects	-
Dollar value of advanced research projects	-

UTC Specific Indicators

Research

1. Number of transportation research projects selected.	2
2. Total matching dollar leveraged for research.	\$351,893.00
3. Number of faculty members involved in research projects.	1
4. Number of undergraduate students involved in UTC-funded research projects.	0
5. Number of master's degree students involved in UTC-funded research projects.	0
6. Number of doctoral students involved in UTC-funded research projects.	2
7. Number of peer reviewed MPC research reports published.	2
8. Number of peer-reviewed journal articles published by faculty.	0
9. Number of peer-reviewed conference papers published by faculty.	0
10. Number of peer-reviewed journal articles or conference papers authored or co-authored by graduate students.	4

Leadership

1. Number of journal editions published by MPC Universities.	0
2. Number of MPC faculty serving on editorial board of journals.	1
3. Number of MPC faculty members serving on committees (or as friends of committees) for organizations such as TRB, TRF, ASCE, ITE, etc.	1
4. Number of awards received by MPC faculty or programs.	1
5. Number of conferences and workshops help or sponsored by MPC Universities.	0
6. Number of unique organizations represented at MPC sponsored conferences and workshops.	0

7. Number of individuals attending MPC conferences and workshops.	0
8. Number of peer-reviewed journal articles and conference papers presented.	4

Education and Workforce Development

1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.

Undergraduate Courses	0
Graduate Courses	23
Total	23

2. Number of students participating in transportation research projects funded by this grant.

Undergraduate Students	1
Graduate Students	2
Total	3

3. Number of transportation-related advance degree programs that utilize grant funds to support graduate students.

Master's Level Programs	2
Doctoral Level Programs	1
Total	3

4. Number of graduate students supported by this grant.

Master's Level Student Stipends	0
Doctoral Level Student Stipends	2
Total	2

5. Number of student supported by this grant who received degrees.

Master's Level Student Stipends	0
Doctoral Level Student Stipends	0
Total	0

6. Number of outreach events conducted for K-12 audiences.

0

7. Number of graduate courses (included in measure one) that are offered online.

0

Technology Transfer

1. Number of transportation seminars, symposia, distance learning classes, etc. conducted by transportation professionals.

4

2. Number of transportation professionals participating in those events.

28

3. Number of annual reports and newsletters published.

0

Collaboration

1. Number of internal meetings, videoconferences, or telephone conferences of the MPC executive committee to discuss program administration and plans for collaboration among the universities.

4

2. Number of projects involving faculty or students from more than one university.

1

3. Number of students participating in MPC graduate student symposia.

0

4. Number of faculty members who hold affiliated faculty status at other MPC universities.

0

5. Number of collaborative research projects involving faculty and students from more than one MPC university.

0

6. Number of collaborative conference or workshops involving several universities, agencies, or LTAP center.

2

University Transportation Centers Program Performance Indicators
University of Utah
University Transportation Centers (UTC's)
DTRT13-G-UTC38 (MPC-371,409, 446-532)
October 1, 2017 - September 30, 2018

Performance Indicators

1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.

Undergraduate Courses	<u>8</u>
Graduate Courses	<u>7</u>

2. Number of students participating in transportation research projects funded by this grant.

Undergraduate Students	<u>5</u>
Graduate Students	<u>14</u>

3. Number of transportation-related advance degree programs that utilize grant funds to support graduate students.

Master's Level Programs	<u>5</u>
Doctoral Level Programs	<u>8</u>

4. Number of graduate students supported by this grant.

Undergraduate Students	<u>2</u>
Master's Student	<u>5</u>
Doctoral Student	<u>7</u>

5. Number of student supported by this grant who received degrees.

Undergraduate Students	<u>2</u>
Master's Level Programs	<u>2</u>
Doctoral Level Programs	<u>2</u>

6. Number and total dollar value of research projected selected for funding using UTC grant funds (Federal and/or Recipient Share)

that you consider to be applied research and advanced research.

Number of applied research projects	18
Dollar value of applied research projects	\$939,093.00
Number of advanced research projects	-
Dollar value of advanced research projects	-

UTC Specific Indicators

Research

1. Number of transportation research projects selected.	18
2. Total matching dollar leveraged for research.	\$939,093.00
3. Number of faculty members involved in research projects.	10
4. Number of undergraduate students involved in UTC-funded research projects.	5
5. Number of master's degree students involved in UTC-funded research projects.	6
6. Number of doctoral students involved in UTC-funded research projects.	9
7. Number of peer reviewed MPC research reports published.	4
8. Number of peer-reviewed journal articles published by faculty.	14
9. Number of peer-reviewed conference papers published by faculty.	10
10. Number of peer-reviewed journal articles or conference papers authored or co-authored by graduate students.	16

Leadership

1. Number of journal editions published by MPC Universities.	0
2. Number of MPC faculty serving on editorial board of journals.	2
3. Number of MPC faculty members serving on committees (or as friends of committees) for organizations such as TRB, TRF, ASCE, ITE, etc.	9
4. Number of awards received by MPC faculty or programs.	2
5. Number of conferences and workshops held or sponsored by MPC Universities.	0
6. Number of unique organizations represented at MPC sponsored conferences and workshops.	0
7. Number of individuals attending MPC conferences and workshops.	0

8. Number of peer-reviewed journal articles and conference papers presented.	5
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Education and Workforce Development

1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.

Undergraduate Courses	8
Graduate Courses	7
Total	15

2. Number of students participating in transportation research projects funded by this grant.

Undergraduate Students	5
Graduate Students	14
Total	19

3. Number of transportation-related advance degree programs that utilize grant funds to support graduate students.

Master's Level Programs	5
Doctoral Level Programs	8
Total	13

4. Number of graduate students supported by this grant.

Master's Level Student Stipends	5
Doctoral Level Student Stipends	7
Total	12

5. Number of student supported by this grant who received degrees.

Master's Level Student Stipends	2
Doctoral Level Student Stipends	2
Total	4

6. Number of outreach events conducted for K-12 audiences.	4
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7. Number of graduate courses (included in measure one) that are offered online.	0
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Technology Transfer

1. Number of transportation seminars, symposia, distance learning classes, etc. conducted by transportation professionals.	4
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2. Number of transportation professionals participating in those events.	42
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3. Number of annual reports and newsletters published.	5
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Collaboration

1. Number of internal meetings, videoconferences, or telephone conferences of the MPC executive committee to discuss program administration and plans for collaboration among the universities.	2
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2. Number of projects involving faculty or students from more than one university.	2
3. Number of students participating in MPC graduate student symposia.	0
4. Number of faculty members who hold affiliated faculty status at other MPC universities.	0
5. Number of collaborative research projects involving faculty and students from more than one MPC university.	0
6. Number of collaborative conference or workshops involving several universities, agencies, or LTAP center.	1

University Transportation Centers Program Performance Indicators
Utah State University
University Transportation Centers (UTC's)
DTRT13-G-UTC38 (MPC-371,409, 446-532)
October 1, 2017 - September 30, 2018

Performance Indicators

1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.

Undergraduate Courses	<u>5</u>
Graduate Courses	<u>4</u>

2. Number of students participating in transportation research projects funded by this grant.

Undergraduate Students	<u>4</u>
Graduate Students	<u>9</u>

3. Number of transportation-related advance degree programs that utilize grant funds to support graduate students.

Master's Level Programs	<u>1</u>
Doctoral Level Programs	<u>1</u>

4. Number of graduate students supported by this grant.

Undergraduate Students	<u>0</u>
Master's Student	<u>4</u>
Doctoral Student	<u>4</u>

5. Number of student supported by this grant who received degrees.

Undergraduate Students	<u>2</u>
Master's Level Programs	<u>3</u>
Doctoral Level Programs	<u>2</u>

6. Number and total dollar value of research projected selected for funding using UTC grant funds (Federal and/or Recipient Share) that you consider to be applied research and advanced research.

Number of applied research projects	10
Dollar value of applied research projects	\$682,306.00
Number of advanced research projects	-
Dollar value of advanced research projects	-

UTC Specific Indicators

Research

1. Number of transportation research projects selected.	10
2. Total matching dollar leveraged for research.	\$682,306.00
3. Number of faculty members involved in research projects.	6
4. Number of undergraduate students involved in UTC-funded research projects.	4
5. Number of master's degree students involved in UTC-funded research projects.	4
6. Number of doctoral students involved in UTC-funded research projects.	4
7. Number of peer reviewed MPC research reports published.	3
8. Number of peer-reviewed journal articles published by faculty.	2
9. Number of peer-reviewed conference papers published by faculty.	2
10. Number of peer-reviewed journal articles or conference papers authored or co-authored by graduate students.	3

Leadership

1. Number of journal editions published by MPC Universities.	0
2. Number of MPC faculty serving on editorial board of journals.	2
3. Number of MPC faculty members serving on committees (or as friends of committees) for organizations such as TRB, TRF, ASCE, ITE, etc.	3
4. Number of awards received by MPC faculty or programs.	2
5. Number of conferences and workshops help or sponsored by MPC Universities.	0
6. Number of unique organizations represented at MPC sponsored conferences and workshops.	0
7. Number of individuals attending MPC conferences and workshops.	0

8. Number of peer-reviewed journal articles and conference papers presented.	<u>3</u>
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Education and Workforce Development

1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.

Undergraduate Courses	<u>5</u>
Graduate Courses	<u>4</u>
Total	<u>9</u>

2. Number of students participating in transportation research projects funded by this grant.

Undergraduate Students	<u>4</u>
Graduate Students	<u>9</u>
Total	<u>13</u>

3. Number of transportation-related advance degree programs that utilize grant funds to support graduate students.

Master's Level Programs	<u>1</u>
Doctoral Level Programs	<u>1</u>
Total	<u>2</u>

4. Number of graduate students supported by this grant.

Master's Level Student Stipends	<u>4</u>
Doctoral Level Student Stipends	<u>4</u>
Total	<u>8</u>

5. Number of student supported by this grant who received degrees.

Master's Level Student Stipends	<u>2</u>
Doctoral Level Student Stipends	<u>3</u>
Total	<u>5</u>

6. Number of outreach events conducted for K-12 audiences.	<u>2</u>
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7. Number of graduate courses (included in measure one) that are offered online.	<u>0</u>
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Technology Transfer

1. Number of transportation seminars, symposia, distance learning classes, etc. conducted by transportation professionals.

<u>5</u>

2. Number of transportation professionals participating in those events.

<u>718</u>

3. Number of annual reports and newsletters published.

<u>2</u>

Collaboration

1. Number of internal meetings, videoconferences, or telephone conferences of the MPC executive committee to discuss program administration and plans for collaboration among the universities.

<u>1</u>

2. Number of projects involving faculty or students from more than one university.	0
3. Number of students participating in MPC graduate student symposia.	0
4. Number of faculty members who hold affiliated faculty status at other MPC universities.	0
5. Number of collaborative research projects involving faculty and students from more than one MPC university.	0
6. Number of collaborative conference or workshops involving several universities, agencies, or LTAP center.	6

University Transportation Centers Program Performance Indicators
University of Wyoming
University Transportation Centers (UTC's)
DTRT13-G-UTC38 (MPC-371,409, 446-532)
October 1, 2017 - September 30, 2018

Performance Indicators

1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.

Undergraduate Courses	<u>6</u>
Graduate Courses	<u>5</u>

2. Number of students participating in transportation research projects funded by this grant.

Undergraduate Students	<u>2</u>
Graduate Students	<u>5</u>

3. Number of transportation-related advance degree programs that utilize grant funds to support graduate students.

Master's Level Programs	<u>1</u>
Doctoral Level Programs	<u>1</u>

4. Number of graduate students supported by this grant.

Undergraduate Students	<u>0</u>
Master's Student	<u>0</u>
Doctoral Student	<u>0</u>

5. Number of student supported by this grant who received degrees.

Undergraduate Students	<u>2</u>
Master's Level Programs	<u>3</u>
Doctoral Level Programs	<u>2</u>

6. Number and total dollar value of research projected selected for funding using UTC grant funds (Federal and/or Recipient Share) that you consider to be applied research and advanced research.

Number of applied research projects	12
Dollar value of applied research projects	\$939,093.00
Number of advanced research projects	-
Dollar value of advanced research projects	-

UTC Specific Indicators

Research

1. Number of transportation research projects selected.	12
2. Total matching dollar leveraged for research.	\$939,093.00
3. Number of faculty members involved in research projects.	2
4. Number of undergraduate students involved in UTC-funded research projects.	0
5. Number of master's degree students involved in UTC-funded research projects.	2
6. Number of doctoral students involved in UTC-funded research projects.	2
7. Number of peer reviewed MPC research reports published.	0
8. Number of peer-reviewed journal articles published by faculty.	4
9. Number of peer-reviewed conference papers published by faculty.	3
10. Number of peer-reviewed journal articles or conference papers authored or co-authored by graduate students.	4

Leadership

1. Number of journal editions published by MPC Universities.	0
2. Number of MPC faculty serving on editorial board of journals.	1
3. Number of MPC faculty members serving on committees (or as friends of committees) for organizations such as TRB, TRF, ASCE, ITE, etc.	2
4. Number of awards received by MPC faculty or programs.	0

5. Number of conferences and workshops help or sponsored by MPC Universities.	<u>20</u>
6. Number of unique organizations represented at MPC sponsored conferences and workshops.	<u>0</u>
7. Number of individuals attending MPC conferences and workshops.	<u>0</u>
8. Number of peer-reviewed journal articles and conference papers presented.	<u>4</u>

Education and Workforce Development

1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.	
Undergraduate Courses	<u>6</u>
Graduate Courses	<u>5</u>
Total	<u>11</u>
2. Number of students participating in transportation research projects funded by this grant.	
Undergraduate Students	<u>2</u>
Graduate Students	<u>5</u>
Total	<u>7</u>
3. Number of transportation-related advance degree programs that utilize grant funds to support graduate students.	
Master's Level Programs	<u>1</u>
Doctoral Level Programs	<u>1</u>
Total	<u>2</u>
4. Number of graduate students supported by this grant.	
Master's Level Student Stipends	<u>0</u>
Doctoral Level Student Stipends	<u>0</u>
Total	<u>0</u>
5. Number of student supported by this grant who received degrees.	
Master's Level Student Stipends	<u>3</u>
Doctoral Level Student Stipends	<u>2</u>
Total	<u>5</u>
6. Number of outreach events conducted for K-12 audiences.	<u>0</u>
7. Number of graduate courses (included in measure one) that are offered online.	<u>0</u>

Technology Transfer

1. Number of transportation seminars, symposia, distance learning classes, etc. conducted by transportation professionals.	<u>20</u>
2. Number of transportation professionals participating in those events.	<u>531</u>

3. Number of annual reports and newsletters published.

1

Collaboration

1. Number of internal meetings, videoconferences, or telephone conferences of the MPC executive committee to discuss program administration and plans for collaboration among the universities.

0

2. Number of projects involving faculty or students from more than one university.

1

3. Number of students participating in MPC graduate student symposia.

0

4. Number of faculty members who hold affiliated faculty status at other MPC universities.

0

5. Number of collaborative research projects involving faculty and students from more than one MPC university.

1

6. Number of collaborative conference or workshops involving several universities, agencies, or LTAP center.

20