

University Transportation Centers Program Performance Indicators

University: North Dakota State University

Grant #: 69A3551747108

Reporting Period: November 30, 2016 - September 30, 2017

[illegible]



**University Transportation Centers Program Performance Indicators**  
**Mountain Plains Consortium**  
**University Transportation Centers (UTC's)**  
**69A3551747108 (MPC-XXX- MPC-XXX)**  
**November 30, 2016 - September 30, 2017**

**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	44
Graduate Courses	75

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

Undergraduate Students	0
Graduate Students	0

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

Master's Level Programs	19
Doctoral Level Programs	17

4. Number of graduate students supported by this grant.

Undergraduate Students	14
Master's Student	47
Doctoral Student	69

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

Undergraduate Students	2
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	0
Dollar value of applied research projects	\$2,570,600.00
Number of advanced research projects	-
Dollar value of advanced research projects	-

### UTC Specific Indicators

#### Research

1. Number of transportation research projects selected.	0
2. Total matching dollar leveraged for research.	\$2,570,600.00
3. Number of faculty members involved in research projects.	0
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.	0
7. Number of peer reviewed MPC research reports published.	0
8. Number of peer-reviewed journal articles published by faculty.	110
9. Number of peer-reviewed conference papers published by faculty.	68
10. Number of peer-reviewed journal articles or conference papers authored or co-authored by graduate students.	108

#### Leadership

1. Number of journal editions published by MPC Universities.	2
2. Number of MPC faculty serving on editorial board of journals.	28
3. Number of MPC faculty members serving on committees (or as friends of	53
4. Number of awards received by MPC faculty or programs.	18
5. Number of conferences and workshops help or sponsored by MPC Universities.	92



6. Number of unique organizations represented at MPC sponsored conferences and workshops.	0
7. Number of individuals attending MPC conferences and workshops.	1,403
8. Number of peer-reviewed journal articles and conference papers presented.	102

#### 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	21
Graduate Courses	83
Total	104

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

Undergraduate Students	0
Graduate Students	0
Total	0

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

Master's Level Programs	16
Doctoral Level Programs	13
Total	29

4. Number of graduate students supported by this grant.

Master's Level Student Stipends	30
Doctoral Level Student Stipends	66
Total	96

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

Master's Level Student Stipends	16
Doctoral Level Student Stipends	13
Total	29

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

7

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.

66

2. Number of transportation professionals participating in those events.

1605

3. Number of annual reports and newsletters published.

39

## 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.

19

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.

0

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**November 30, 2016 - September 30, 2017**

**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	23

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

Undergraduate Students	0
Graduate Students	0

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	2
Master's Student	3
Doctoral Student	38

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

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

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	0
Dollar value of applied research projects	\$657,048.00
Number of advanced research projects	-
Dollar value of advanced research projects	-

#### UTC Specific Indicators

##### Research

1. Number of transportation research projects selected.	0
2. Total matching dollar leveraged for research.	\$657,048.00
3. Number of faculty members involved in research projects.	0
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.	0
7. Number of peer reviewed MPC research reports published.	0
8. Number of peer-reviewed journal articles published by faculty.	27
9. Number of peer-reviewed conference papers published by faculty.	21
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.	8
3. Number of MPC faculty members serving on committees (or as friends of committees) for organizations such as TRB, TRF, ASCE, ITE, etc.	17
4. Number of awards received by MPC faculty or programs.	4
5. Number of conferences and workshops help or sponsored by MPC Universities.	75
6. Number of unique organizations represented at MPC sponsored conferences and workshops.	0
7. Number of individuals attending MPC conferences and workshops.	1388
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	23
Total	23

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

Undergraduate Students	0
Graduate Students	0
Total	0

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	3
Doctoral Level Student Stipends	38
Total	41

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

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

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

3
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7. Number of graduate courses (included in measure one) that are offered online.

18
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**Technology Transfer**

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

18
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2. Number of transportation professionals participating in those events.

108
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3. Number of annual reports and newsletters published.

33
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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.

4
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2. Number of projects involving faculty or students from more than one university.

0
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3. Number of students participating in MPC graduate student symposia.

0
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4. Number of faculty members who hold affiliated faculty status at other MPC universities.

0
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5. Number of collaborative research projects involving faculty and students from more than one MPC university.

0
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6. Number of collaborative conference or workshops involving several universities, agencies, or LTAP center.

0

**University Transportation Centers Program Performance Indicators**  
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**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	11
Graduate Courses	6

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

Undergraduate Students	0
Graduate Students	0

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	1
Master's Student	14
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	0
Dollar value of applied research projects	\$288,935.00
Number of advanced research projects	-
Dollar value of advanced research projects	-

## UTC Specific Indicators

### Research

1. Number of transportation research projects selected.	0
2. Total matching dollar leveraged for research.	\$288,935.00
3. Number of faculty members involved in research projects.	0
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.	0
7. Number of peer reviewed MPC research reports published.	0
8. Number of peer-reviewed journal articles published by faculty.	12
9. Number of peer-reviewed conference papers published by faculty.	9
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.	8
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.	0

### 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	0
Total	0

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

Undergraduate Students	0
Graduate Students	0
Total	0

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

Master's Level Programs	0
Doctoral Level Programs	0
Total	0

4. Number of graduate students supported by this grant.

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

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.

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.

0

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.

0

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**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	4
Graduate Courses	5

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

Undergraduate Students	0
Graduate Students	0

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	0
Master's Student	6
Doctoral Student	4

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

Undergraduate Students	0
Master's Level Programs	2
Doctoral Level Programs	1

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	0
Dollar value of applied research projects	\$288,935.00
Number of advanced research projects	-
Dollar value of advanced research projects	-

## UTC Specific Indicators

### Research

1. Number of transportation research projects selected.	0
2. Total matching dollar leveraged for research.	\$288,935.00
3. Number of faculty members involved in research projects.	0
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.	0
7. Number of peer reviewed MPC research reports published.	0
8. Number of peer-reviewed journal articles published by faculty.	16
9. Number of peer-reviewed conference papers published by faculty.	11
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.	5
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.	14

### Education and Workforce Development

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

Undergraduate Courses	4
Graduate Courses	5
Total	9

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

Undergraduate Students	0
Graduate Students	0
Total	0

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	6
Doctoral Level Student Stipends	4
Total	10

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

Master's Level Student Stipends	2
Doctoral Level Student Stipends	1
Total	3

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

0
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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.

0
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2. Number of transportation professionals participating in those events.

0
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3. Number of annual reports and newsletters published.

0
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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.

0
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3. Number of students participating in MPC graduate student symposia.

0
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4. Number of faculty members who hold affiliated faculty status at other MPC universities.

0
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5. Number of collaborative research projects involving faculty and students from more than one MPC university.

0
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6. Number of collaborative conference or workshops involving several universities, agencies, or LTAP center.

0

**University Transportation Centers Program Performance Indicators**  
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**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>2</u>
Graduate Courses	<u>12</u>

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

Undergraduate Students	<u>0</u>
Graduate Students	<u>0</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>4</u>
Doctoral Student	<u>9</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	0
Dollar value of applied research projects	\$288,935.00
Number of advanced research projects	-
Dollar value of advanced research projects	-

## UTC Specific Indicators

### Research

1. Number of transportation research projects selected.	0
2. Total matching dollar leveraged for research.	\$288,935.00
3. Number of faculty members involved in research projects.	0
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.	0
7. Number of peer reviewed MPC research reports published.	0
8. Number of peer-reviewed journal articles published by faculty.	34
9. Number of peer-reviewed conference papers published by faculty.	12
10. Number of peer-reviewed journal articles or conference papers authored or co-authored by graduate students.	17

### 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.	6
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.	35

### 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	2
Graduate Courses	12
Total	14

2. Number of students participating in transportation research projects funded by this grant.	
Undergraduate Students	0
Graduate Students	0
Total	0

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	4
Doctoral Level Student Stipends	9
Total	13

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
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7. Number of graduate courses (included in measure one) that are offered online.	6
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### 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.	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.	0

**University Transportation Centers Program Performance Indicators**  
**Mountain Plains Consortium**  
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**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>3</u>

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

Undergraduate Students	<u>0</u>
Graduate Students	<u>0</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>2</u>
Master's Student	<u>3</u>
Doctoral Student	<u>1</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	0
Dollar value of applied research projects	\$179,942.00
Number of advanced research projects	-
Dollar value of advanced research projects	-

## UTC Specific Indicators

### Research

1. Number of transportation research projects selected.	0
2. Total matching dollar leveraged for research.	\$179,942.00
3. Number of faculty members involved in research projects.	0
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.	0
7. Number of peer reviewed MPC research reports published.	0
8. Number of peer-reviewed journal articles published by faculty.	0
9. Number of peer-reviewed conference papers published by faculty.	1
10. Number of peer-reviewed journal articles or conference papers authored or co-authored by graduate students.	0

### 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.	2
4. Number of awards received by MPC faculty or programs.	0
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.	1

### 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	0
Graduate Students	0
Total	0

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	3
Doctoral Level Student Stipends	1
Total	4

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
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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.

1
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2. Number of transportation professionals participating in those events.

75
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3. Number of annual reports and newsletters published.

1
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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.	<div>3</div>
2. Number of projects involving faculty or students from more than one university.	<div>0</div>
3. Number of students participating in MPC graduate student symposia.	<div>0</div>
4. Number of faculty members who hold affiliated faculty status at other MPC universities.	<div>0</div>
5. Number of collaborative research projects involving faculty and students from more than one MPC university.	<div>0</div>
6. Number of collaborative conference or workshops involving several universities, agencies, or LTAP center.	<div>0</div>

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**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	18
Graduate Courses	17

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

Undergraduate Students	0
Graduate Students	0

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

Master's Level Programs	7
Doctoral Level Programs	7

4. Number of graduate students supported by this grant.

Undergraduate Students	5
Master's Student	9
Doctoral Student	11

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

Undergraduate Students	0
Master's Level Programs	7
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	0
Dollar value of applied research projects	\$288,935.00
Number of advanced research projects	-
Dollar value of advanced research projects	-

## UTC Specific Indicators

### Research

1. Number of transportation research projects selected.	0
2. Total matching dollar leveraged for research.	\$288,935.00
3. Number of faculty members involved in research projects.	0
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.	0
7. Number of peer reviewed MPC research reports published.	0
8. Number of peer-reviewed journal articles published by faculty.	9
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.	18

### Leadership

1. Number of journal editions published by MPC Universities.	0
2. Number of MPC faculty serving on editorial board of journals.	6
3. Number of MPC faculty members serving on committees (or as friends of committees) for organizations such as TRB, TRF, ASCE, ITE, etc.	11
4. Number of awards received by MPC faculty or programs.	7
5. Number of conferences and workshops help or sponsored by MPC Universities.	10
6. Number of unique organizations represented at MPC sponsored conferences and workshops.	0



7. Number of individuals attending MPC conferences and workshops.	14
8. Number of peer-reviewed journal articles and conference papers presented.	23

### 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	11
Total	17

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

Undergraduate Students	0
Graduate Students	0
Total	0

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

Master's Level Programs	6
Doctoral Level Programs	4
Total	10

4. Number of graduate students supported by this grant.

Master's Level Student Stipends	6
Doctoral Level Student Stipends	8
Total	14

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

Master's Level Student Stipends	6
Doctoral Level Student Stipends	3
Total	9

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

2
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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.

9
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2. Number of transportation professionals participating in those events.

165
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3. Number of annual reports and newsletters published.

1
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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.	3
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.	0

**University Transportation Centers Program Performance Indicators**  
**Mountain Plains Consortium**  
**University Transportation Centers (UTC's)**  
**69A3551747108 (MPC-XXX- MPC-XXX)**  
**November 30, 2016 - September 30, 2017**

**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>5</u>

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

Undergraduate Students	<u>0</u>
Graduate Students	<u>0</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>2</u>

4. Number of graduate students supported by this grant.

Undergraduate Students	<u>2</u>
Master's Student	<u>5</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>4</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	0
Dollar value of applied research projects	\$288,935.00
Number of advanced research projects	-
Dollar value of advanced research projects	-

## UTC Specific Indicators

### Research

1. Number of transportation research projects selected.	0
2. Total matching dollar leveraged for research.	\$288,935.00
3. Number of faculty members involved in research projects.	0
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.	0
7. Number of peer reviewed MPC research reports published.	0
8. Number of peer-reviewed journal articles published by faculty.	3
9. Number of peer-reviewed conference papers published by faculty.	1
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.	4
4. Number of awards received by MPC faculty or programs.	2
5. Number of conferences and workshops help or sponsored by MPC Universities.	1
6. Number of unique organizations represented at MPC sponsored conferences and workshops.	0
7. Number of individuals attending MPC conferences and workshops.	1

8. Number of peer-reviewed journal articles and conference papers presented.	2
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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	5
Graduate Courses	5
Total	10

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

Undergraduate Students	0
Graduate Students	0
Total	0

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

Master's Level Programs	2
Doctoral Level Programs	2
Total	4

4. Number of graduate students supported by this grant.

Master's Level Student Stipends	5
Doctoral Level Student Stipends	4
Total	9

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

Master's Level Student Stipends	4
Doctoral Level Student Stipends	2
Total	6

6. Number of outreach events conducted for K-12 audiences.	1
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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.	9
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2. Number of transportation professionals participating in those events.	607
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3. Number of annual reports and newsletters published.	2
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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.	1
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2. Number of projects involving faculty or students from more than one university.	0
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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. 0

**University Transportation Centers Program Performance Indicators**  
**Mountain Plains Consortium**  
**University Transportation Centers (UTC's)**  
**69A3551747108 (MPC-XXX- MPC-XXX)**  
**November 30, 2016 - September 30, 2017**

**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>4</u>
Graduate Courses	<u>4</u>

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

Undergraduate Students	<u>0</u>
Graduate Students	<u>0</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>2</u>
Master's Student	<u>3</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>2</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	0
Dollar value of applied research projects	\$288,935.00
Number of advanced research projects	-
Dollar value of advanced research projects	-

### UTC Specific Indicators

#### Research

1. Number of transportation research projects selected.	0
2. Total matching dollar leveraged for research.	\$288,935.00
3. Number of faculty members involved in research projects.	0
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.	0
7. Number of peer reviewed MPC research reports published.	0
8. Number of peer-reviewed journal articles published by faculty.	9
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.	9

#### 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.	2



4. Number of awards received by MPC faculty or programs.	<u>          </u>
5. Number of conferences and workshops help or sponsored by MPC Universities.	<u>        6        </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>        7        </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>        4        </u>
Graduate Courses	<u>        4        </u>
Total	<u>        8        </u>
2. Number of students participating in transportation research projects funded by this grant.	
Undergraduate Students	<u>        0        </u>
Graduate Students	<u>        0        </u>
Total	<u>        0        </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>        3        </u>
Doctoral Level Student Stipends	<u>        2        </u>
Total	<u>        5        </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>        0        </u>
Total	<u>        2        </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>        29        </u>
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2. Number of transportation professionals participating in those events.	<u>650</u>
3. Number of annual reports and newsletters published.	<u>0</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>2</u>
2. Number of projects involving faculty or students from more than one university.	<u>0</u>
3. Number of students participating in MPC graduate student symposia.	<u>0</u>
4. Number of faculty members who hold affiliated faculty status at other MPC universities.	<u>0</u>
5. Number of collaborative research projects involving faculty and students from more than one MPC university.	<u>0</u>
6. Number of collaborative conference or workshops involving several universities, agencies, or LTAP center.	<u>0</u>