

ERIC L. JESSUP

CURRENT POSITION

Assistant Professor: WSU School of Economic Sciences

Project Director: Strategic Freight Transportation Analysis Study

EDUCATION

1998 ***Ph.D. Agricultural Economics***
Washington State University, Pullman, Washington

1992 ***M.S. Agricultural Economics***
University of Kentucky, Lexington, Kentucky

1988 ***B.S. Agricultural Economics***
University of Kentucky, Lexington, Kentucky

PROFESSIONAL EXPERIENCE

2002 – Present Washington State University Pullman, Washington

Assistant Professor, School of Economic Sciences

- Currently leading a statewide freight transportation research effort (grant) with the Washington State Department of Transportation (WSDOT) and WSU (Strategic Freight Transportation Analysis, (SFTA)), collecting freight origin-destination data and analyzing transportation infrastructure investment alternatives.
- Have taught Advanced Agricultural Marketing 450 and directing graduate students' research over past five years. Have also developed course outline and materials for Transportation Economics (EconS 426) and currently teach the transportation section of Industrial Organization Applications course at the graduate level (EconS 593).
- Currently Principal Investigator or Co-Principal Investigator and Project Manager on many separate WSDOT research grant projects, and conducting collaborative research with Dr. Anne Goodchild at the University of Washington. Also have submitted multiple WSDOT research proposals for the 2008 fiscal year.

1999 – 2002 American Express

Phoenix, Arizona

Manager, International Risk Management, New Product Development

- Responsible for forecasting/tracking credit write-offs and account receivables for all American Express International revolve lending products. This includes statistical estimation of behavioral functional forms which drive expected cardmember financial performance.
- Designed, developed and implemented a forecasting tool (Visual Basic Application) which allows a wide number of users (Finance, Marketing, Technology, Risk Management) to perform if/then analysis and evaluate impacts to revenue, write-offs and provision.
- Managed the new product development risk process for product launches in Indonesia, Japan, and Mexico, working closely with Finance, Technology, Marketing, Operations and other Risk Management areas to facilitate successful delivery of lending products and service. This included development of financial projections, internal and external acquisition strategies and criteria for solicitation and risk screening, competitor analysis and development of economic logic for line assignment, and development of new account business rules and risk scoring models.
- Developed a new process and data structure for forecasting and tracking credit performance. This visual basic application and relational database allowed seamless handling of data related to forecasting credit performance and a set of statistical and estimations tools specifically tailored to the nuances of this data.

1998 – 1999 American Express

Phoenix, Arizona

Econometrician

- Developed, implemented and maintained statistical models for forecasting long-run call volume and staffing needs 9 to 12 months into the future, leading to increased forecast accuracy and enhanced customer service levels.
- Designed a new approach for forecasting the response from balance transfer marketing campaigns utilizing a Polynomial Distributed Lag model.
- Began initial development of optimization models for creation of optimal work shifts and staff schedules that minimizes total labor cost, maximizes customer service, and improves employee shift preferences.
- Built Executive Information System (EIS) around a SAS data warehouse for providing real-time performance metrics to enhance quicker decision making.

1994 – 1998 Eastern Wash. Intermodal Transportation Study (EWITS) Pullman, Washington

Research Associate

- Participated in data collection and analysis of the 30,000 origin-destination truck freight movements for the Eastern Washington Inter-modal Transportation Study. Responsibilities included conducting state wide training seminars across the state of Washington and examining commodity flows on three primary transportation modes (truck, rail, and barge) using a Geographical Information System (ArcInfo).
- Surveyed grain and forest products companies in the Pacific Northwest for information regarding modal use, handling and storage rates, and seasonality of traffic flows.
- Spearheaded the development and application of a commodity optimization model for analyzing transportation flows on rail, barge, and highways in Eastern Washington. The transportation model blends a Geographical Information System software with the optimization capabilities of GAMS (Generalized Algebraic Modeling Systems).

1996 Washington State University Pullman, Washington

Lecturer

- Taught one module of the graduate level math for economist course. Subjects included comparative static analysis and general function models.

1993 – 1994 Washington State University Pullman, Washington

Graduate Research Assistant

- Research duties included conducting literature reviews and compiling and maintaining several large databases.

1991 – 1992 University of Kentucky Lexington, Kentucky

Teaching / Research Assistant

- Duties included the preparation and grading of all assignments and guest lecturing for an undergraduate marketing course.

1991 Farm Credit Services Lexington, Kentucky

Loan Analyst

- Responsibilities included updating financial records on high profile loans and making recommendations on loan strategies.

1988 - 1990 Quality Valley Dairy Quality, Kentucky

Dairy Farm Manager

- Responsibilities included overseeing all management activities and operations for an 80 cow herd.

GRADUATE RESEARCH DIRECTED

Member, Ph.D. Student Graduate Committee, Mark Holmgren
Member, Ph.D. Student Graduate Committee, Diem Ngyen
Member, M.A. Student Graduate Committee, Selmin Creamer
Member, Ph.D. Student Graduate Committee, Tosmai Puenpatom
Member, Ph.D. Student Graduate Committee, Hayk Khachatryan
Chair, M.A. Student Graduate Committee, Jamie Everett
Member, M.A. Student Graduate Committee, Hamilton Galloway
Member, Ph.D. Student Graduate Committee, Steve Peterson
Chair, M.A. Student Graduate Committee, Stephanie Meenach
Member, M.A. Student Graduate Committee, Jason Monson
Chair, M.A. Student Graduate Committee, Ryan Herrington
Member, M.A. Student Graduate Committee, Toby Ripplinger
Member, M.A. Student Graduate Committee, Wayne Stigge
Member, M.A. Student Graduate Committee, Ashley James
Member, M.A. Student Graduate Committee, Grant Monson
Member, M.A. Student Graduate Committee, Quinton Pike

CONSULTING ASSIGNMENTS

Northwest Container Services, Inc., Portland, Oregon
U.S. Army Corps of Engineers, Portland, Oregon
Idaho Department of Transportation, Boise, Idaho
Port of Moses Lake, Moses Lake, Washington
Port of Whitman, Colfax, Washington
HDR Engineering, Inc., Bellevue, Washington
Idaho Wheat Commission, Boise, Idaho
Battelle Northwest Memorial Institute, Richland, Washington
Upper Great Plains Transportation Institute, Fargo, North Dakota
Washington State Department of Transportation, Olympia, Washington

FUNDED RESEARCH GRANTS

<u>Principal Investigators</u>	<u>Title</u>	<u>Agency</u>	<u>\$ Amount</u>
1. Jessup, Yoder, Casavant (2005)	Program Scoping State of Practice	WSDOT	\$50,000
2. Jessup, Casavant (2005)	Development of Washington State Freight Data System	WSDOT	\$75,000
3. Jessup, Casavant (2003)	Evaluation of Freight Data Collection Methods in Urban Areas	ODOT	\$117,000
4. Jessup, Casavant (2005)	Prioritize Transportation Security Projects	WSDOT	\$60,000
5. Jessup (2006)	PTR/WIM Evaluation	WSDOT	\$50,000
6. Jessup (2004)	Evaluating Port Security Systems for Container	TransNow	\$112,000
7. Jessup, Goodchild (UW) (2005)	Modeling Port to Warehouse Freight Movements	TransNow	\$287,000
8. Jessup, Casavant (2002)	Attributes Influencing Intermodal Facilities Viability	TransNow	\$147,000
9. Jessup, Casavant (2007)	Washington State Freight System Resiliency Study	TransNow	\$72,000
10. Jessup, Goodchild (UW) (2008)	Development and Analysis of a GIS Statewide Data Flow Network	WSDOT	\$120,000
11. Jessup (2007)	Biofuel Mandates and Mass Balance: Community Level Socioeconomic and Land Use Impacts in the PNW	Battelle/DOE	\$48,309
12. Jessup, Casavant (2007)	Washington State Log Truckers Survey and Analysis	WA Legislature	\$150,000
13. Jessup (2007)	Identification of Market Opportunities Washington Potato Exports to Russia	WA Potato Commission	\$26,000
14. Jessup, Casavant (2008)	Fuel Factors Study in Oregon	ODOT	\$107,000
15. Jessup, Casavant (2008)	Freight Trans. Policy Institute	USDOT	\$450,000

RESEARCH GRANT PROPOSALS SUBMITTED AND UNDER CONSIDERATION

Principal Investigators	Title	Agency	\$ Amount
1. Casavant, Jessup (2008)	Freight Trans. Policy Institute	USDOT	\$2,000,000
2. Casavant, Jessup (2008)	Center for Ag. and Rural Trans.	USDA	\$3,000,000/yr.
3. Jessup, Casavant (2008)	SFTA II	WSDOT	\$500,000

JOURNAL MANUSCRIPT REVIEWS

Transportation Research Record

Western Journal of Agricultural Economics

Journal of the Transportation Research Forum

Canadian Transportation Research Journal

Research in Transportation Economics

National Association of College Teachers of Agriculture

ACADEMIC SERVICE/HONORS

2008 Academic Vice President for the Transportation Research Forum

Best Paper Award at the 2006 International Economics and Business Research Conference, titled "Transportation Usage and Characteristics of Washington State Warehouse/Distribution Center Businesses.", Siena, Italy, May, 2006.

Best Paper Award at the 2004 International Applied Business Research Conference, titled "Business Decisions in a Cooperative Environment", San Juan, Puerto Rico, March 2004.

Advisor to WSU student Agricultural Business Club and Chair of the SES Social Committee.

Selected as an **Eno Fellow** by the Eno Transportation Foundation's Board of Regents, Washington D.C., 1994.

Selected as Student of the Year from the Northwest Region University Transportation Center Program, 1996.

President, Agricultural and Rural Transportation Chapter, National Transportation Research Forum, 1995-1996.

Vice President – Programs, Agricultural and Rural Transportation Chapter, National Transportation Research Forum, 1994-1995.

Secretary / Treasurer, Agricultural Economics Graduate Student Association, Washington State University, 1994-1995.

Vice President, Agricultural Economics Graduate Student Association, Washington State University, 1993-1994.

Inducted into the Gamma Sigma Delta National Honor Society, 1993.

Volunteer tutor for student athletes in calculus, statistics and economics, University of Kentucky, 1991-1992.

Recipient of the John A. Moser scholarship as an undergraduate and twice recipient of the John Redman scholarship as a graduate student at the University of Kentucky.

TECHNICAL SKILLS

Thorough knowledge of many computer software packages including SAS, GAMS, and Microsoft Office. Also very experienced with the Geographical Information System, ArcInfo and ArcView.

COMMUNITY ACTIVITIES

Chair of SES Social Committee 2002-2008.

Volunteer pie/ice cream server at 4th of July festivities, Pullman, Washington.

Volunteer for annual “Make a Difference” day, Phoenix, AZ 1999, 2000, 2001 (Landscaping and painting homeless shelters and animal humane society).

Volunteer Junior Achievement instructor for 5th and 6th grade, 1998-1999.

Judge for Washington State FFA current issues debate, 1995-1998.

Pullman Little League baseball coach, 1994.

PERSONAL

Birthdate: October 10, 1966

Place: Greenville, Kentucky

Marital Status: Engaged

PUBLICATIONS

Journal Articles - Published

- Painter, K.M., Jessup, E.L., Gossard, M., & Casavant, K. (2007). Demand Forecasting for Rural Transit: Models Applied to the State of Washington. *Transportation Research Record*. #1997 (2007), 35-40.
- Jessup, Eric, Jon. Newkirk, Ken Casavant, and Marcia Hill Gossard. 2007. "Qualitative Research for a Quality of Life: Benefits of Rural Airports." *Western Planner* 28 (1)
- Farrell, Terence, Ken Casavant and Eric Jessup. "An Approach to Determining the Market for Academic Positions: Application to the Discipline of Agricultural Economics." *Journal of College Teaching and Learning*, TLC Publication #191, January, 2007.
- Jessup, Eric, Ken Casavant and Quinton Pike. "Transportation Usage and Characteristics of Washington State Warehouse/Distribution Center Businesses: A First Look." *Journal of Business Case Studies*, JBCS# S06-168, Spring, 2007.
- Bridges, Deborah, Eric Jessup and Ken Casavant. "The Influence of Agricultural Background and Geographic Location on Students' Attitudes about Biotechnology." *North American Colleges and Teachers of Agriculture Journal*, Vol. 50, Number 4, December 2006, pp. 2-6.
- Jessup, Eric, Ken Casavant, Catherine Lawson and Alan Kirk. "Intercept Surveys: Productivity in Collecting Truck Trip Data, A Case Study of Portland, Oregon." *Journal of the Transportation Research Forum*, Vol. 45, No. 2, Summer 2006.
- Painter, Kate, Eric Jessup and Ken Casavant. "If you build It, Will they come—and How Many?" *Western Planner*, January 2006.
- Jessup, Eric and Ryan Herrington. "Estimating the Impact of Seasonal Truck Shortages on the Movement of Time-Sensitive, Perishable Products." *Transportation Research Record* #1906, 2005, pp. 81-88.
- Gossard, Marcia, Eric Jessup and Ken Casavant. "Anatomy of a Classroom: An Exploratory Analysis of Elements Influencing Academic Performance." *North American Colleges and Teachers of Agriculture Journal*, Vol. 50, Number 2, June 2006, pp. 36-39.
- Jessup, Eric and Ken Casavant. "Understanding Grain Movements for Demand Estimation: The Columbia-Snake River System in Washington State." *Transportation Research Record* #1909, 2005, pp. 17-21.
- Jessup, Eric, Ken Casavant, Jason Monson, and Ken Duft. "Business Decisions in a Cooperative Environment." *Journal of Business and Economic Research*, Vol. 2, No. 6, June 2004.
- Monson, Jason, Ken Duft, Ken Casavant and Eric Jessup. Cooperative Structure, Performance and Economies of Size: A Northwest Perspective. *The Cooperative Accountant*, Winter 2003, pp. 13-26.

Jessup, Eric L., Ken L. Casavant and Terence C. Farrell. "Selected Private and Public Grain Transportation Impacts from Breaching the Snake River Dams in Eastern Washington." *Journal of the Transportation Research Forum*. Volume 40:(109-121), Number 3, Summer 2001.

Jessup, Eric L. "An Economic Analysis of Trucker's Incentive to Overload as Affected by the Judicial System." *Research in Transportation Economics*. Volume 4, 1996.

Casavant, Ken L., Amy Arnis, William R. Gillis, Waynette Nell, and Eric L. Jessup. "Modeling Washington State Truck Freight Flows Using GIS-T: Data Collection and Design." *Transportation Research Record*. Number 1497, 1995.

Squires, Glen W., Eric L. Jessup, and Ken L. Casavant. "The Role of Canadian Rail Rate Subsidies in U.S./Canadian Dry Pea and Lentil Export Markets: A Delivered Cost Analysis." *Journal of the Transportation Research Forum*. Volume 34, Number 2, 1995.

Buzby, Jean C. and Eric L. Jessup. "The Relative Impact of Macroeconomic and Yearling-Specific Variables in Determining Thoroughbred Yearling Price." *Applied Economics*. Vol. 26:1-8, 1994.

Journal Articles - Accepted

Kahachatryan, Hayk and Eric L. Jessup. "Spatial Investigation of Mineral Transportation Characteristics in the State of Washington." Article accepted for publication in the *Journal of the Transportation Research Forum*, Spring, 2008.

Peterson, Steve and Eric L. Jessup. "Transportation Infrastructure Investment and Economic Activity: Evidence Using Vector Autoregression, Error Correction and Acyclic Graphs." Article accepted for publication in the *Journal of the Transportation Research Forum*, Summer, 2008.

Journal Articles – Submitted / Manuscripts in Progress

Jessup, Eric L. "Improved Methods of Evaluating PTR/WIM Data Collection Locations for Statewide Freight Data Redundancies and Gaps." Article to be submitted to the *Transportation Research Record*, March, 2008.

Jessup, Eric L. and Kelly Cullen. "Utilizing GIS for Seamless Statewide Transportation Infrastructure Investments." Article to be submitted to the *Transportation Research Record*, March, 2008.

Fujisawa, Kaori, Ann Goodchild and Eric L. Jessup. "Regional Freight Transportation Modeling for Policy Analysis: Warehousing District Migration and Regional Impacts." Article to be submitted to the *Transportation Research Record*, October, 2008.

Gossard, Marcia, Eric Jessup and Ken Casavant. "A Further Analysis of An Environmental Paradox: Global Warming, Salmon Restoration and Wheat Transportation in the Pacific Northwest." Article to be submitted to the *Journal of Transportation Research Forum*, May, 2008.

Jessup, Eric, Ken Casavant, Catherine Lawson and Marcia Gossard. "Utilizing Mail and Fax Surveys to Collect Truck Trip Data Details: Case Study of Portland, Oregon." Article to be submitted to the *Journal of Transportation Research Forum*, May, 2008.

Jessup, Eric, Ken Casavant, Catherine Lawson and Marcia Gossard. "Comparison of Known vs. Unknown Survey List in Producing Truck Trip Data Details." Research Note to be submitted to the *Journal of Transportation Research Forum*, June, 2008.

Jessup, Eric and Stephanie Meenach. "Transportation Optimization Modeling for Washington State Hay Shipments: Mode and Cost Implications Due to Loss of Container Services at the Port of Portland." Article to be submitted to the *Journal of Transportation Research Forum*, June, 2008.

Jessup, Eric and Grant Monson. "Estimating Firm and Industry Level Costs Resulting from Catastrophic Events at West Coast Container Ports." Article to be submitted to the *Journal of the Transportation Research Forum*, July, 2008.

Research Publications – Proceedings

Everett, Jamie N., and Eric L. Jessup. "Investigating the Demand for Warehouse Space and the Spatial Attributes Influencing Those Decisions." Proceedings, Canadian Transportation Research Forum, Winnipeg, Canada, June, 2007.

Khachatryan, H., and Eric L. Jessup. "Payload Weights and Hauling Distances: The Potential Effects on Highway Deterioration." Proceedings, Canadian Transportation Research Forum, Winnipeg, Canada, June, 2007.

Galloway, H., Ken Casavant and Eric L. Jessup. "Projections of British Columbia-Washington Truck Freight Border Crossings Based on Commodity Trade." Proceedings, Canadian Transportation Research Forum, Winnipeg, Canada, June, 2007.

Jessup, Eric L., Cullen, K., and Jerry Lenzi. "Washington State All-Weather Road GIS Mapping: Improved Statewide Freight Flows and Connectivity." Proceedings, Transportation Research Forum Annual Meetings, Boston, MA, May, 2007.

Gossard, M., Jessup, Eric L., and Ken Casavant. "CO₂ vs. Salmon: Complementary Policies in Wheat Transportation in the Pacific Northwest?" Proceedings, Transportation Research Forum Annual Meetings, Boston, MA, May, 2007.

Painter, K.M., Jessup, Eric L., Gossard, M., and Ken Casavant. "Rural Transit Demand Estimation: An Alternative Approach in the State of Washington." Proceedings, Transportation Research Forum Annual Meetings, Boston, MA, May, 2007.

- Peterson, S., and Eric L. Jessup. "Transportation Infrastructure and Economic Activity: Evidence Using Vector Autoregression, Error Correction and Directed Acyclic Graphs." Proceedings, Transportation Research Forum Annual Meetings, Boston, MA, May, 2007.
- Monson, G., Jessup, Eric L., and Ken Casavant. "Supply Chain Analysis: Port Security Measures and Catastrophic Events." Proceedings, Transportation Research Forum Annual Meetings, Boston, MA, May, 2007.
- Khachatryan, H., and Eric L. Jessup. "Spatial Investigation of Mineral Transportation Characteristics in the State of Washington." Proceedings, Transportation Research Forum Annual Meetings, Boston, MA, May, 2007.
- Jessup, Eric L., Meenach, S., and Ken Casavant. "Modeling Containerized Hay Shipments in the Pacific Northwest: Investigating Cost and Volume Impacts as Port of Portland Container Services is Reduced." Proceedings, Transportation Research Forum Annual Meetings, Boston, MA, May, 2007.
- Galloway, H., Casavant, K., and Eric L. Jessup. "Projections of Washington-British Columbia Trade and Traffic, by Commodity, Route and Border Crossing." Proceedings, Transportation Research Forum Annual Meetings, Boston, MA, May, 2007.
- Fujisawa, K., Goodchild, A., and Eric L. Jessup. "Modeling Containerized Cargo Shipments Between Ocean Port and Handling Facilities." Proceedings, INFORMS Annual Meeting, Seattle, WA, November, 2007.
- Jessup, Eric, Quintin Pike and Ken Casavant. "Empirical Estimation of Attributes Influencing Warehouse/Distribution Center Operations: Washington State Warehouse Industry." Proceedings, Annual Transportation Research Forum Meetings, New York., March, 2006.
- Puenpatom, Tosmai, Eric Jessup and Ken Casavant. "Geo-Coding Survey Truck Route Data: GIS Analytical Applications." Proceedings, Annual Transportation Research Forum Meetings, New York., March, 2006.
- Casavant, Ken and Eric Jessup. "How Can Inter-Modal Truck-Rail Facilities Provide Continuing Service in the Supply Chain: An Application in Washington State." Proceedings, International PENSA Conference on Agri-Food Chain/Networks Economics and Management, Ribeirao Preto, Brazil, August, 2005.
- Jessup, Eric, Jon Newkirk and Ken Casavant. "What Information on Grain Movements is Useful to Estimate the Demand for Barge Transportation?" Proceedings, International PENSA Conference on Agri-Food Chain/Networks Economics and Management, Ribeirao Preto, Brazil, August, 2005.
- Jessup, Eric and Ryan Herrington. "Estimating the Impact of Seasonal Truck Shortages to the Pacific Northwest Apple Industry: Transportation Cost Minimization Approach." Proceedings, Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.

- Jessup, Eric, Ken Casavant, Catherine Lawson and Alan Kirk. "The Dirty Job of Truck Movement Data Gathering: An Evaluation of Intercept Surveys." Proceedings, Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.
- Meenach, Stephanie, Eric Jessup and Ken Casavant. "Transportation Logistics and Supply Chain Characteristics of Washington Hay and Livestock Movements." Proceedings, Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.
- Casavant, Ken, Eric Jessup and Jon Newkirk. "Airport Transportation: The Search for Benefits of Rural Airports." Proceedings, Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.
- Casavant, Ken and Eric Jessup. "What Makes Them Viable? Determining the Attributes that Offer Potential Viability to Inter-Modal Truck-Rail Facilities in Washington State." Proceedings, Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.
- Jessup, Eric, Shushanik Makaryan and Ken Casavant. "Pacific Northwest Waterborne Commerce: A Detailed Analysis of Up-River and Down-River Movements on the Columbia/Snake River System." Proceedings, Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.
- Pike, Quintin, Ken Casavant and Eric Jessup. "Transportation Usage and Characteristics of the Washington Warehouse/Distribution Center Industry." Proceedings, Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.
- Peterson, Steve, Eric Jessup and Ken Casavant. "Freight Origin and Destination Study for Washington State Trucking: Characteristics and Trends." Proceedings, Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.
- Ball, Trent, Eric Jessup and Ken Casavant. Environmental Impacts From an Environmental Policy: Evaluating Drawdowns of a River to Aid Salmon Using GIS and GAMS. Proceedings, World Conference on Transportation Research, 2004. Istanbul, Turkey.
- Tolliver, Denver, Eric Jessup and Ken Casavant. Rail Line Abandonment and Highway Preservation: A Case Study of Washington in the U.S. Proceedings, World Conference on Transportation Research, 2004. Istanbul, Turkey.
- Casavant, Ken, Jason Monson, Eric Jessup and Ken Duft. "Business Decisions in a Cooperative Environment," Proceedings, Applied Business Research Conference, San Juan, Puerto Rico, March 2004
- Jessup, Eric, Ken Casavant and Jerry Lenzi. "A GIS and Transportation Optimization Model Approach to Policy Evaluation." Reviewed and Selected Paper (18% acceptance) for the Proceedings, World Conference on Transportation Research, Antwerp, Belgium, May, 1999.

Edwards, Richard, Eric Jessup, and Ken Casavant. "Eastern Washington On-Farm and Commercial Grain Storage." Proceedings, Pacific Northwest Regional Economic Conference, March 1998.

Jessup, Eric L. and Ken L. Casavant. "Economic Evaluation of Benefits of State Purchase of Proposed Rail Line in Washington State." Proceedings, Canadian Transportation Research Forum Annual Meeting. Toronto, Canada. May 1997.

Casavant, Ken, Jerry Lenzi, and Eric Jessup. "Road Impacts from Snake River Drawdown: Positive or Negative." Proceedings, Pacific Northwest Regional Economic Conference, October 1996.

Jessup, Eric, John Ellis, and Ken Casavant. "A GIS Approach to Estimating the Value of Rail Car Accessibility for Grain Shipments." Proceedings, GIS-T Symposium, Phoenix, Arizona, September 1996.

Jessup, Eric L., John Ellis, and Ken L. Casavant. "Estimating the Value of Rail Car Accessibility for Grain Shipments: A GIS Approach." Proceedings, Canadian Transportation Research Forum Annual Meeting. Winnipeg, Manitoba. May 27, 1996, pp. 325-339.

Casavant, Ken L., Jerry Lenzi, and Eric L. Jessup. "Road Impacts from Snake River Drawdown: Positive or Negative?" Proceedings, Pacific Northwest Regional Economic Conference. Spokane, Washington. April 1996.

Jessup, Eric L., Ken L. Casavant, and Denver Tolliver. "Differences Between Railroads and State Regulators over the Extent of Regulations." Proceedings, Transportation Research Forum Annual Meeting. September 14, 1995, Volume IX, Number 4, pp. 379-388.

Jessup, Eric L., Ken L. Casavant and William Thoms. "Regulation of Local and Regional Railroads: A National Survey of Perspectives and Practice." Proceedings, Canadian Transportation Research Forum. Victoria, British Columbia. May 1994.

Research Publications – Abstracts

Everett, Jamie N., and Eric L. Jessup. "Investigating the Demand for Warehouse Space and the Spatial Attributes Influencing Those Decisions." Abstract, Canadian Transportation Research Forum, Winnipeg, Canada, June, 2007.

Khachatryan, H., and Eric L. Jessup. "Payload Weights and Hauling Distances: The Potential Effects on Highway Deterioration." Abstract, Canadian Transportation Research Forum, Winnipeg, Canada, June, 2007.

Galloway, H., Ken Casavant and Eric L. Jessup. "Projections of British Columbia-Washington Truck Freight Border Crossings Based on Commodity Trade." Abstract, Canadian Transportation Research Forum, Winnipeg, Canada, June, 2007.

Jessup, Eric L., Cullen, K., and Jerry Lenzi. "Washington State All-Weather Road GIS Mapping: Improved Statewide Freight Flows and Connectivity." Abstract, Transportation Research Forum Transportation Research Forum, Boston, MA, May, 2007.

Gossard, M., Jessup, Eric L., and Ken Casavant. "CO2 vs. Salmon: Complementary Policies in Wheat Transportation in the Pacific Northwest?" Abstract, Transportation Research Forum Transportation Research Forum, Boston, MA, May, 2007.

Painter, K.M., Jessup, Eric L., Gossard, M., and Ken Casavant. "Rural Transit Demand Estimation: An Alternative Approach in the State of Washington." Abstract, Transportation Research Forum, Boston, MA, May, 2007.

Peterson, S., and Eric L. Jessup. "Transportation Infrastructure and Economic Activity: Evidence Using Vector Autoregression, Error Correction and Directed Acyclic Graphs." Abstract, Transportation Research Forum, Boston, MA, May, 2007.

Monson, G., Jessup, Eric L., and Ken Casavant. "Supply Chain Analysis: Port Security Measures and Catastrophic Events." Abstract, Transportation Research Forum, Boston, MA, May, 2007.

Khachatryan, H., and Eric L. Jessup. "Spatial Investigation of Mineral Transportation Characteristics in the State of Washington." Abstract, Transportation Research Forum, Boston, MA, May, 2007.

Jessup, Eric L., Meenach, S., and Ken Casavant. "Modeling Containerized Hay Shipments in the Pacific Northwest: Investigating Cost and Volume Impacts as Port of Portland Container Services is Reduced." Abstract, Transportation Research Forum, Boston, MA, May, 2007.

Galloway, H., Casavant, K., and Eric L. Jessup. "Projections of Washington-British Columbia Trade and Traffic, by Commodity, Route and Border Crossing." Abstract, Transportation Research Forum, Boston, MA, May, 2007.

Jessup, Eric, Stephanie Meenach and Ken Casavant. "Transportation Optimization Modeling for Washington State Hay Shipments: Mode and Cost Implications Due to Loss of Container Services at the Port of Portland." Abstract, International Association of Agricultural Economist Annual Meeting, Brisbane, Australia, August 2006.

Jessup, Eric, Quintin Pike and Ken Casavant. "Empirical Estimation of Attributes Influencing Warehouse/Distribution Center Operations: Washington State Warehouse Industry." Abstract, Annual Transportation Research Forum Meetings, New York., March, 2006.

Puenpatom, Tosmai, Eric Jessup and Ken Casavant. "Geo-Coding Survey Truck Route Data: GIS Analytical Applications." Abstract, Annual Transportation Research Forum Meetings, New York., March, 2006.

Casavant, Ken and Eric Jessup. "How Can Inter-Modal Truck-Rail Facilities Provide Continuing Service in the Supply Chain: An Application in Washington State." Abstract, International PENSA Conference on Agri-Food Chain/Networks Economics and Management, Ribeirao Preto, Brazil, August, 2005.

Jessup, Eric, Jon Newkirk and Ken Casavant. "What Information on Grain Movements is Useful to Estimate the Demand for Barge Transportation?" Abstract, International PENSA Conference on Agri-Food Chain/Networks Economics and Management, Ribeiro Preto, Brazil, August, 2005.

Puenpatom, Tosmai and Eric Jessup. "Impact of Identity Preserved Grain on Rail Car Allocation." Abstract, Western Agricultural Economics Association Annual Meeting. San Francisco, CA, July, 2005.

Jessup, Eric and Ryan Herrington. "Estimating the Impact of Seasonal Truck Shortages to the Pacific Northwest Apple Industry: Transportation Cost Minimization Approach." Abstract, Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.

Jessup, Eric, Ken Casavant, Catherine Lawson and Alan Kirk. "The Dirty Job of Truck Movement Data Gathering: An Evaluation of Intercept Surveys." Abstract, Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.

Meenach, Stephanie, Eric Jessup and Ken Casavant. "Transportation Logistics and Supply Chain Characteristics of Washington Hay and Livestock Movements." Abstract, Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.

Casavant, Ken, Eric Jessup and Jon Newkirk. "Airport Transportation: The Search for Benefits of Rural Airports." Abstract, Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.

Casavant, Ken and Eric Jessup. "What Makes Them Viable? Determining the Attributes that Offer Potential Viability to Inter-Modal Truck-Rail Facilities in Washington State." Abstract, Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.

Jessup, Eric, Shushanik Makaryan and Ken Casavant. "Pacific Northwest Waterborne Commerce: A Detailed Analysis of Up-River and Down-River Movements on the Columbia/Snake River System." Abstract, Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.

Pike, Quintin, Ken Casavant and Eric Jessup. "Transportation Usage and Characteristics of the Washington Warehouse/Distribution Center Industry." Abstract, Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.

Peterson, Steve, Eric Jessup and Ken Casavant. "Freight Origin and Destination Study for Washington State Trucking: Characteristics and Trends." Abstract, Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.

Jessup, Eric and Ryan Herrington. "Estimating the Impact of Seasonal Truck Shortages on Movement of Time-Sensitive, Perishable Products: Transportation Cost Minimization Approach." Abstract, Transportation Research Board Meetings, Washington D.C., January 2005

- Jessup, Eric, Ken Casavant, Catherine Lawson and Alan Kirk. "Evaluation of Intercept Surveys in Collecting Truck Trip Data: A Case Study of the Portland, Oregon Metropolitan Area." Abstract, Transportation Research Board Meetings, Washington D.C., January, 2005.
- Newkirk, Jon, Ken Casavant and Eric Jessup. "A Qualitative Approach to Determining the Benefits of Rural Airports: A Case Study of Washington State." Abstract, Transportation Research Board Meetings, Washington D.C., January, 2005.
- Jessup, Eric and Ken Casavant. "Understanding Grain Movements for Demand Estimation: The Columbia-Snake River System in Washington State." Abstract, Transportation Research Board Meetings, Washington D.C., January, 2005.
- Ball, Trent, Eric Jessup and Ken Casavant. "Environmental Impacts From an Environmental Policy: Evaluating Drawdowns of a River to Aid Salmon Using GIS and GAMS." Abstract, World Conference on Transportation Research, 2004. Istanbul, Turkey.
- Tolliver, Denver, Eric Jessup and Ken Casavant. "Rail Line Abandonment and Highway Preservation: A Case Study of Washington in the U.S." Abstract, World Conference on Transportation Research, 2004. Istanbul, Turkey.
- Ball, Trent, Eric Jessup and Ken Casavant. "Environmental Impacts from an Environmental Policy: Drawdowns of a River to Aid Salmon." Abstract, 25th Conference of International Association of Agricultural Economists. Durbin, South Africa, August, 2003.
- Jessup, Eric, and Ken Casavant. "A GIS and Transportation Optimization Model Approach to Policy Evaluation." Abstract, World Conference on Transportation Research, Antwerp, Belgium, July, 1999.
- Jessup, Eric L. "Measuring Impacts From a Snake River Drawdown: A GIS Approach." Abstract, Pacific Northwest Regional Economic Conference. Spokane, Washington. April 1997.
- Jessup, Eric L. and Ken L. Casavant. "Research That Works Now: EWITS Project in Washington State." Abstract, National Freight Planning Applications Conference. October 1996.
- Jessup, Eric and Ken Casavant. "Evaluating the Effectiveness of Courts in Recovering Road Damage from Overload of Trucks." Abstract - Selected Papers, American Agricultural Economics Association meetings, July 1996.
- Jessup, Eric L., Ken L. Casavant, and Denver Tolliver. "An Econometric Analysis of Shortline Railroad Regulations in the U.S." Abstract, World Conference on Transportation Research. Sydney, Australia. June 1995.

Department of Transportation Publications (Washington and Oregon)

Jessup, Eric L. "WIM/PTR Site Evaluation for Traffic Data Redundancy / Gaps." Final Report to the Washington State Department of Transportation, Transportation Data Office, December, 2007

Casavant, Ken and Eric L. Jessup. "Development of a Washington State Freight Data System." Final Report to the Washington State Department of Transportation, Office of Freight Strategy and Policy, August, 2007.

Casavant, Ken, Jessup, Eric L. and Mark Holmgren. "Program Scoping / State of Practice for Washington State." Final Report to the Washington State Department of Transportation, June, 2007.

Casavant, Ken., Jessup, Eric.L., and Mark Holmgren. "Prioritization and Funding of Transportation Security Projects for Washington State." Final Report to the Washington State Department of Transportation, June, 2007.

Casavant, Ken and Eric Jessup. "Palouse River and Coulee City Railroad: Full Market Assessment." Final Report to the WSDOT, Office of Freight Strategy and Policy, July, 2006.

Casavant, Ken and Eric Jessup. "Palouse River and Coulee City Railroad: CW Line Market Assessment." Final Report to WSDOT, Office of Freight Strategy and Policy, March, 2006.

Jessup, Eric and Ken Casavant. "Oregon Department of Transportation Truck Trip Data Collection Methodology Study: Final Report." December. 2003.

Jessup, Eric and Ken Casavant. "Oregon Department of Transportation Truck Trip Data Collection Methodology Study: Task 5 Report: Pilot Study Results." November. 2003.

Jessup, Eric and Ken Casavant. "Oregon Department of Transportation Truck Trip Data Collection Methodology Study: Task 4 Report: Pilot Study Design Strategies." October. 2003.

Jessup Eric and Ken Casavant. "Oregon Department of Transportation Truck Trip Data Collection Methodology Study: Task 3 Report: Alternative Data Collection Methodologies." October, 2003.

Jessup, Eric and Ken Casavant. "Oregon Department of Transportation Truck Trip Data Collection Methodology Study: Task 2 Report: Data Requirements and Structure." September, 2003.

Jessup, Eric and Ken Casavant. "Oregon Department of Transportation Truck Trip Data Collection Methodology Study: Task 1 Report: Literature Review and Critique." September, 2003.

Jessup, Eric L. and Ken L. Casavant. "Evaluation of Violation and Capture of Overweight Trucks: A Case Study." Final Technical Report Phase IV. WSDOT. Spring 1996.

Jessup, Eric L. and Ken L. Casavant. "Characteristics of Elevators Impacted by the Proposed BN/SF Line Sales." Report to WSDOT Eastern Region. February 1996.

Barron, Catherine J., Eric L. Jessup and Ken L. Casavant. "A Case Study of Motor Vehicles Violating Special Weight Permits in the State of Washington." Final Technical Report Phase I. WSDOT. July 1994.

Barron, Catherine J., Eric L. Jessup and Ken L. Casavant. "A Case Study of the Effectiveness of Washington's Fine System for Overweight Vehicles." Final Technical Report Phase II. WSDOT. July 1994.

Barron, Catherine J., Eric L. Jessup and Ken L. Casavant. "An Evaluation of County and City Road Weight Enforcement Efforts in the State of Washington." Final Technical Report Phase III. WSDOT. July 1994.

Eastern Washington Intermodal Transportation Study (EWITS) Publications

Jessup, Eric L. and Kenneth L. Casavant. "Impact of Snake River Drawdown on Transportation of Grains in Eastern Washington: Competitive and Rail Car Capacity Constraints." EWITS Research Report Number 24, January 1999.

Edwards, Richard, Eric L. Jessup, and Kenneth L. Casavant. "Eastern Washington On-Farm and Commercial Grain Storage." EWITS Research Report Number 20, January 1998.

Jessup, Eric L., John Ellis and Ken L. Casavant. "A GIS Commodity Flow Model for Transportation Policy Analysis: A Case Study of the Impacts of a Snake River Drawdown." EWITS Research Report #18. June 1997.

Jessup, Eric L. and Ken L. Casavant. "Economic Evaluation of Grain Shipment Alternatives: A Case Study of the Coulee City and Palouse River Railroad." EWITS Working Paper #8. March 1997.

Alderson, Lynn C., Eric L. Jessup and Ken L. Casavant. "Transportation Characteristics and Needs for Forest Products Industries Using Eastern Washington Highways: Economic Structure of the Industry." EWITS Research Report #13. November 1996.

Jessup, Eric L., John Ellis and Ken L. Casavant. "Estimating the Value of Rail Car Accessibility for Grain Shipments: A GIS Approach." EWITS Working Paper #5. May 1996.

Ellis, John, Eric L. Jessup and Ken L. Casavant. "A GIS and Transportation Optimization Model Approach to Determining Highway and Rural Road Commodity Flows." EWITS Working Paper #3. April 1996.

Lenzi, Jerry C., Eric L. Jessup and Ken L. Casavant. "Prospective Estimates for Road Impacts In Eastern Washington from a Drawdown of the Lower Snake River." EWITS Working Paper #2. April 1996.

Jessup, Eric and Ken Casavant. "Characteristics of Elevators Impacted by the Proposed BN/SF Line Sales." Report to Washington State Department of Transportation Eastern Region, February 1996.

Gillis, William R., Eric L. Jessup and Ken L. Casavant. "Movement of Freight on Washington's Highways: A Statewide Origin and Destination Study." EWITS Research Report #9. October 1995.

Jessup, Eric L. and Ken L. Casavant. "A Quantitative Estimate of Eastern Washington Annual Haul Road Needs for Wheat and Barley Movements." EWITS Research Report #6. March 1996.

Strategic Freight Transportation Analysis (SFTA) Publications

Holmgren, Mark, Ken Casavant and Eric L. Jessup. "Review of Transportation Costs for Alternative Fuels." SFTA Research Report #25, December, 2007.

Jessup, Eric, Kelley Cullen, Jerry Lenzi and Ken Casavant. "All Weather Road Projects for the State of Washington: A GIS Application/Analysis." SFTA Research Report #23, September, 2007.

Galloway, Hamilton, Ken Casavant and Eric L. Jessup. "Projections of Washington-British Columbia Trade and Traffic, by Commodity, Route and Border Crossing." SFTA Research Report #22, May, 2007.

Khachatryan, Hayk, Eric L. Jessup and Ken Casavant. "2005 Transportation of Mining/Mineral Survey: Final Report." SFTA Research Report #21, January, 2007.

Peterson, Steve and Eric L. Jessup. "Freight Movements on Washington State Highways: Comparison of Results 1993 to 2003." SFTA Research Report #20, October, 2006.

Chase, Robert, Eric Jessup and Ken Casavant. "2003 Washington Statewide Transportation Input-Output Study." SFTA Research Report #19, July, 2006.

Chase, Robert, Eric Jessup and Ken Casavant. "2003 Eastern Washington Transportation Input-Output Study." SFTA Research Report #18, July, 2006.

Monson, Grant, Eric Jessup and Ken Casavant. "Evaluation and Estimation of Port Security Measures and Impacts Due to Catastrophic Events." SFTA Research Report #17, July, 2006.

Reimer, Aaron, Marie Drews, Eric Jessup and Ken Casavant. "Regional Transportation Impacts as a Result of Reduced Container Services at the Port of Portland: Survey of Snake/Columbia River Ports." SFTA Working Paper #2, July, 2006.

Casavant, Ken, Marcia Gossard and Eric Jessup. "Grain Receipts at Columbia River Grain Terminals 1980-1981 to 2004-2005." SFTA Working Paper #1, November, 2005.

Monson, Jason, Eric Jessup and Ken Casavant. "Washington State Grain Cooperatives: History, Functions and Regulations." SFTA Research Report #16, September, 2005

- Jesse Stenger, Marie Drews, Eric Jessup and Ken Casavant. "Profile of Washington Rail Shipments: Commodity Origin-Destination Analysis 1985-2002." SFTA Report #15, September, 2005.
- Shushanik Makaryan, Marie Drews, Eric Jessup and Ken Casavant. "Waterborne Commerce on the Columbia/Snake Waterway: Commodity Movements Up/Down River 1995-2003." SFTA Research Report #14, September, 2005.
- Pike, Quinton, Eric Jessup and Ken Casavant. "Washington Warehousing/Distribution Center Industry: Operations and Transportation Usage." SFTA Research Report #13, January, 2005.
- Meenach, Stephanie, Eric L. Jessup and Kenneth L. Casavant. "Transportation and Marketing Needs of the Washington Livestock Industry." SFTA Research Report Number 12, January 2005.
- Meenach, Stephanie, Eric L. Jessup and Kenneth L. Casavant. "Transportation Characteristics and Needs of the Washington Hay Industry: Producers and Processors." SFTA Research Report Number 11, November 2004.
- Peterson, Steve, Eric L. Jessup and Kenneth L. Casavant. "Freight Movements on Washington State Highways: Results of the 2003-2004 Origin and Destination Study." SFTA Research Report Number 10, October 2004.
- Jessup, Eric L. and Kenneth L. Casavant. "Rail Line Investment Alternatives Resulting from Abandonment: A Case Study of Moses Lake, Washington." SFTA Research Report Number 9. July 2003.
- Tolliver, Denver, Eric L. Jessup and Kenneth L. Casavant. "Implications of Rail-Line Abandonment on Shipper Costs in Eastern Washington." SFTA Research Report Number 8. September 2003.
- Tolliver, Denver, Eric L. Jessup and Kenneth L. Casavant. "New Techniques for Estimating Impacts of Rail Line Abandonment on Highways in Washington." SFTA Research Report Number 7. September 2003.
- Casavant, Kenneth L., Eric L. Jessup and Joe Poire. "An Assessment of the Current Situation of the Palouse River and Coulee City Railroad and the Future Role of the Port of Whitman County." SFTA Research Report Number 6. October 2003.
- Clark, Michael L., Eric L. Jessup and Kenneth L. Casavant. "Dynamics of Wheat and Barley Shipments on Haul Roads to and from Grain Warehouses in Washington State." SFTA Research Report Number 5. September 2003.
- Ripplinger, Toby, Kenneth L. Casavant and Eric L. Jessup. "Transportation Usage of the Washington Wine Industry." SFTA Research Report Number 4. May 2003.
- Casavant, Kenneth L. and Eric L. Jessup. "Value of Modal Competition for Transportation of Washington Fresh Fruits and Vegetables." SFTA Research Report Number 3. December 2002.

Clark, Michael L., Eric L. Jessup and Kenneth L. Casavant. "Freight Truck Origin and Destination Study: Methods, Procedures and Data Dictionary." SFTA Research Report Number 2. December 2002.

Casavant, Kenneth L. and Eric L. Jessup. "SFTA Full Scope of Work." SFTA Research Report Number 1. December 2002.

Extension and Other Publications

Jessup, Eric. "River Transport." Feature Article in *Idaho Issues Online*, http://www.boisestate.edu/history/issuesonline/fall2006_issues/5f_numbers_06fall.html, November, 2006.

Jessup, Eric, Grant Monson and Ken Casavant. "A Feasibility Study Evaluating Transportation Security Systems and Associated Multi-Modal Efficiency Impacts." TransNow Final Report, August, 2006.

Jessup, Eric, Steve Peterson and Ken Casavant. "Identification of Factors Influencing Inter-Modal Facility Location Decisions: Empirical Estimation Procedures." TransNow Final Report, May 2005.

Jessup, Eric. "Trade, Transportation and Freight Mobility: Invest Now or Pay Later?" Chapter published in the Metropolitan Briefing Book 2005. Published by the Institute of Portland Metropolitan Studies, Portland State University, Portland, OR, January, 2005.

Casavant, Ken and Eric Jessup. "Idaho Commercial Truck Registration Study: Final Report." Idaho Transportation Department and the National Institute for Advanced Transportation Technology. University of Idaho. NIATT #N04-05. March 2004.

Jessup, Eric, Ken Casavant, and Catherine Lawson. "Truck Trip Data Collection Methods: Final Report SPR343." Oregon Department of Transportation and the Federal Highway Administration. Salem, OR. February 2004.

Monson, Jason, and Ken D. Duft, Ken Casavant, and Eric Jessup. "The Changing Dynamics of Grain Cooperatives in Eastern Washington," Agribusiness Management Report, EB1985E, 2004, School of Economic Sciences, WSU

Casavant, Ken and Eric Jessup. "Impact on Grain Movements from Columbia-Snake River Drawdown, in Eastern Washington Freight Mobility Study, HDR Engineering." Report to the Washington State Legislative Transportation Committee. January 1998.

Casavant, Ken L. and Eric L. Jessup. "Characteristics of Idaho Wheat Transportation." Idaho Wheat Commission. January 1997.

Jessup, Eric and Ken Casavant. "Characteristics and Structure of Elevators in BN/SF Sale." Report to HDR Engineering, September 1996.

Jessup, Eric L. and Ken L. Casavant. "Logistical Efficiency Underlies Agribusiness Success." Agribusiness Management. Washington State University. Cooperative Extension, College of Agriculture. June 1994.

Freshwater, David, Eric L. Jessup, Lisa Mangus and Richard Mook. "Factors Affecting the Stability of Thoroughbred Breeding Enterprise Income and Asset Values in the Bluegrass Region of Kentucky." University of Kentucky. May 1992.

Invited Presentations

Casavant, Ken and Eric L. Jessup. "Energy Use and Alternatives in the Transport of People and Goods." Invited presentation at the 2007 All Extension Conference, Spokane, WA., July, 2007.

Jessup, Eric L. "Freight Mobility: The Future of Shortline Railroads." Invited presentation at the Inland Northwest Regional Transportation Summit, Spokane, WA. August, 2007

Casavant, Ken and Eric L. Jessup. "Transportation Infrastructure Bottlenecks in the Pacific Northwest." Invited presentation at the INFORMA: Transportation and Logistics Roundtable: The Northwest Passage, Land, Water and Sea, Port of Seattle, Seattle, WA., June, 2007.

Jessup, Eric L. and Ken Casavant. "Transportation Challenges and Outlook: Bio Energy and Agriculture." Invited panel presentation at the School of Economic Sciences 2007 Annual Conference: Economic Issues and Outlook, Pasco, WA., November, 2007

Jessup, Eric L. and Ken Casavant. "History, Function and Future of the Columbia-Snake Waterway." Invited presentation to the Washington State Transportation Commission, Skamania Lodge, Stevenson, WA, October, 2007.

Casavant, Ken and Eric L. Jessup. "Moving it All: Supplying Transportation Capacity to Meet Regional and State Needs." Invited presentation at the School of Economic Sciences, Friends Event, Vancouver, WA. April, 2007.

Jessup, Eric. "SFTA Freight Data Applications." Invited presentation at the Washington State Department of Transportation Snoqualmie Pass Transportation Conference. Spokane, WA, December, 2005.

Jessup, Eric. "Grain Industry Changes, Challenges and Positive Initiatives." Invited presentation at the Cooperative Agricultural Producers Annual Meeting, Rosalia, WA, November, 2005.

Jessup, Eric. "Freight Transportation Impacts: Truck, Rail and Water." Invited presentation at the Global Conference on Oil Depletion, Spokane, WA, October, 2005.

Jessup, Eric and Ken Casavant. "Utilizing Origin-Destination Data to Evaluate WIM/PTR Sites in Washington State." Invited presentation to the Washington State Department of Transportation, Data Office, Olympia, WA. May, 2005.

Jessup, Eric and Ken Casavant. "Transportation and Market Accessibility: Dynamic Grain Industry Changes, Transportation Challenges and Positive Initiatives." Invited presentation to the Pullman Chamber of Commerce, Pullman, WA, February, 2005.

Jessup, Eric. "Trade, Transportation and Freight Mobility: Invest Now or Pay Later?" Invited presentation at the Institute of Portland Metropolitan Studies, Portland State University, Portland, OR, January, 2005.

Jessup, Eric and Ken Casavant. "Putting Freight Data To Work: Summary of Available SFTA Data and Studies." Invited presentation to the Puget Sound Regional Freight Mobility Roundtable. Seattle, WA. May 2004.

Casavant, Ken and Eric Jessup. "What Does Spokane Have and What Can Spokane Do?" Invited presentation to the International Trade Alliance, Spokane, WA, November 2003.

Jessup, Eric and Ken Casavant. "Freight Data and Information for Highway Users." Invited presentation to the Washington Highway Users Federation Meeting. Olympia, WA, October 2003.

Jessup, Eric and Ken Casavant. "Data and Information for Improved Freight Mobility." Invited presentation to the Washington State Freight Mobility Strategic Investment Board of Directors Meeting. Pasco, WA. September, 2003.

Jessup, Eric and Ken Casavant. "The Future of the Moses Lake Railroad Branch." Invited presentation to the Project Blue Sky Team, Moses Lake, WA, July, 2003.

Jessup, Eric and Ken Casavant. "The Role of the Columbia/Snake Waterway for Agricultural Transport: Regional Impact of Agricultural Transportation." Invited presentation to the Transportation Research Board Meeting, Portland, OR. July, 2003.

Casavant, Ken and Eric Jessup. "Shortline Railroads and the Role of the Port of Whitman County." Invited presentation to the Port of Whitman County, Colfax, WA, June, 2003.

Casavant, Ken and Eric Jessup. "SFTA Origin-Destination Data: Supporting Transportation Decision Making." Invited presentation to the Oregon Regional Freight Data Working Group. Portland, OR, May, 2003.

Casavant, Ken and Eric Jessup. "Report to the Port of Moses Lake Railroad Task Force." Invited presentation to the Port of Moses Lake, Moses Lake, WA, April, 2003.

Lenzi, Jerry, John Doyle, Eric Jessup and Ken Casavant. "SFTA: Supporting Transportation Decision Making." Invited presentation to the Washington State Department of Transportation Freight Working Group. Olympia, WA. March, 2003.

Jessup, Eric and Ken Casavant. "SFTA Projects and Prospects." Invited presentation to the Washington State Transportation Commission, Pasco, WA, March, 2003.

Casavant, Ken and Eric Jessup. "Shortline Railroad Economics." Invited presentation to the Port of Whitman County, Colfax, WA, February, 2003.

Jessup, Eric and Ken Casavant. "Grain Industry Changes in Washington." Invited presentation to the Washington Wheat Commission. Spokane, WA. January 2003.

Casavant, Ken and Eric Jessup. "SFTA and the Commission." Invited presentation to the Washington State Transportation Commission, Seattle, WA, January, 2003.

Jessup, Eric L. "GIS Applications in Agricultural Economics." Invited Symposium Presenter at the American Agricultural Economics Association Annual Meeting. Toronto, Canada. July 1997.

Jessup, Eric L. "Using GIS as a Planning Tool." Invited presentation to the WSDOT Joint Spring Planning Conference. Spokane, Washington. May 1996.

Presentations: Papers Presented

Everett, Jamie N., and Eric L. Jessup. "Investigating the Demand for Warehouse Space and the Spatial Attributes Influencing Those Decisions." Paper presented at the Canadian Transportation Research Forum, Winnipeg, Canada, June, 2007.

Khachatryan, H., and Eric L. Jessup. "Payload Weights and Hauling Distances: The Potential Effects on Highway Deterioration." Paper presented at the Canadian Transportation Research Forum, Winnipeg, Canada, June, 2007.

Galloway, H., Ken Casavant and Eric L. Jessup. "Projections of British Columbia-Washington Truck Freight Border Crossings Based on Commodity Trade." Paper presented at the Canadian Transportation Research Forum, Winnipeg, Canada, June, 2007.

Jessup, Eric L., Cullen, K., and Jerry Lenzi. "Washington State All-Weather Road GIS Mapping: Improved Statewide Freight Flows and Connectivity." Paper presented at the Transportation Research Forum Annual Meetings, Boston, MA, May, 2007.

Gossard, M., Jessup, Eric L., and Ken Casavant. "CO2 vs. Salmon: Complementary Policies in Wheat Transportation in the Pacific Northwest?" Paper presented at the Transportation Research Forum Annual Meetings, Boston, MA, May, 2007.

Painter, K.M., Jessup, Eric L., Gossard, M., and Ken Casavant. "Rural Transit Demand Estimation: An Alternative Approach in the State of Washington." Paper presented at the Transportation Research Forum Annual Meetings, Boston, MA, May, 2007.

Peterson, S., and Eric L. Jessup. "Transportation Infrastructure and Economic Activity: Evidence Using Vector Autoregression, Error Correction and Directed Acyclic Graphs." Paper presented at the Transportation Research Forum Annual Meetings, Boston, MA, May, 2007.

Monson, G., Jessup, Eric L., and Ken Casavant. "Supply Chain Analysis: Port Security Measures and Catastrophic Events." Paper presented at the Transportation Research Forum Annual Meetings, Boston, MA, May, 2007.

Khachatryan, H., and Eric L. Jessup. "Spatial Investigation of Mineral Transportation Characteristics in the State of Washington." Paper presented at the Transportation Research Forum Annual Meetings Boston, MA, May, 2007.

- Jessup, Eric L., Meenach, S., and Ken Casavant. "Modeling Containerized Hay Shipments in the Pacific Northwest: Investigating Cost and Volume Impacts as Port of Portland Container Services is Reduced." Paper presented at the Transportation Research Forum Annual Meetings, Boston, MA, May, 2007.
- Galloway, H., Casavant, K., and Eric L. Jessup. "Projections of Washington-British Columbia Trade and Traffic, by Commodity, Route and Border Crossing." Paper presented at the Transportation Research Forum Annual Meetings, Boston, MA, May, 2007.
- Fujisawa, K., Goodchild, A., and Eric L. Jessup. "Modeling Containerized Cargo Shipments Between Ocean Port and Handling Facilities." Paper presented at the INFORMS Annual Meeting, Seattle, WA, November, 2007.
- Monson, Grant, Eric L. Jessup and Ken. "Management of Supply Chains for Economic Efficiency in a Security Environment: A Case Study of a Big Box Chain Store." Paper presented at the I Mediterranean Conference of Agro-Food Social Scientists, Barcelona, Spain, April, 2007.
- Galloway, H., Casavant, Ken and Eric L. Jessup. "Projecting Trade and Traffic by Commodity, Route, and Border Crossings: A Case Study of Washington State and Canada." Paper presented at the I Mediterranean Conference of Agro-Food Social Scientists, Barcelona, Spain, April, 2007.
- Jessup, Eric, Stephanie Meenach and Ken Casavant. "Transportation Optimization Modeling for Washington State Hay Shipments: Mode and Cost Implications Due to Loss of Container Services at the Port of Portland." Paper presented at the International Association of Agricultural Economist Annual Meeting, Brisbane, Australia, August 2006.
- Jessup, Eric, Quintin Pike and Ken Casavant. "Empirical Estimation of Attributes Influencing Warehouse/Distribution Center Operations: Washington State Warehouse Industry." Paper presented at the Annual Transportation Research Forum Meetings, New York., March, 2006.
- Puenpatom, Tosmai, Eric Jessup and Ken Casavant. "Geo-Coding Survey Truck Route Data: GIS Analytical Applications." Paper presented at the Annual Transportation Research Forum Meetings, New York., March, 2006.
- Casavant, Ken and Eric Jessup. "How Can Inter-Modal Truck-Rail Facilities Provide Continuing Service in the Supply Chain: An Application in Washington State." Paper presented at the International PENSA Conference on Agri-Food Chain/Networks Economics and Management, Ribeirao Preto, Brazil, August, 2005.
- Jessup, Eric, Jon Newkirk and Ken Casavant. "What Information on Grain Movements is Useful to Estimate the Demand for Barge Transportation?" Paper presented at the International PENSA Conference on Agri-Food Chain/Networks Economics and Management, Ribeirao Preto, Brazil, August, 2005.
- Puenpatom, Tosmai and Eric Jessup. "Impact of Identity Preserved Grain on Rail Car Allocation." Paper presented at the Western Agricultural Economics Association Annual Meeting. San Francisco, CA, July, 2005.

- Casavant, Ken, Eric Jessup and Jon Newkirk. "The Search for Benefits of Rural Airports." Poster presentation at the Washington State University Showcase Event, Pullman, WA, April, 2005.
- Jessup, Eric, Ken Casavant and Catherine Lawson. "Evaluating Intercept Surveys for Collecting Truck Trip Data: Case Study of the Portland Metropolitan Area." Poster presentation at the Washington State University Showcase Event, Pullman, WA, April, 2005.
- Jessup, Eric and Ryan Herrington. "Estimating the Impact of Seasonal Truck Shortages on Movement of Time-Sensitive, Perishable Products: Transportation Cost Minimization Approach." Poster presentation at the Washington State University Showcase Event, Pullman, WA, April, 2005.
- Jessup, Eric, Steve Peterson and Ken Casavant. "Freight Origin and Destination Study for Washington State Trucking: Characteristics and Trends." Poster presentation at the Washington State University Showcase Event, Pullman, WA, April, 2005.
- Jessup, Eric, Stephanie Meenach and Ken Casavant. "Transportation Logistics and Supply Chain Characteristics of Washington Hay and Livestock Movements." Poster presentation at the Washington State University Showcase Event, Pullman, WA, April, 2005.
- Pike, Quintin, Ken Casavant and Eric Jessup. "Transportation Usage and Characteristics of the Washington Warehouse/Distribution Center Industry." Poster presentation at the Washington State University Showcase Event, Pullman, WA, April, 2005.
- Jessup, Eric, Shushanik Makaryan and Ken Casavant. "Analysis of Up-River/Down-River Shipments on the Columbia/Snake River System in the Pacific Northwest." Poster presentation at the Washington State University Showcase Event, Pullman, WA, April, 2005.
- Jessup, Eric and Ryan Herrington. "Estimating the Impact of Seasonal Truck Shortages to the Pacific Northwest Apple Industry: Transportation Cost Minimization Approach." Paper presented at the Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.
- Jessup, Eric, Ken Casavant, Catherine Lawson and Alan Kirk. "The Dirty Job of Truck Movement Data Gathering: An Evaluation of Intercept Surveys." Paper presented at the Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.
- Meenach, Stephanie, Eric Jessup and Ken Casavant. "Transportation Logistics and Supply Chain Characteristics of Washington Hay and Livestock Movements." Paper presented at the Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.
- Casavant, Ken, Eric Jessup and Jon Newkirk. "Airport Transportation: The Search for Benefits of Rural Airports." Paper presented at the Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.

Casavant, Ken and Eric Jessup. "What Makes Them Viable? Determining the Attributes that Offer Potential Viability to Inter-Modal Truck-Rail Facilities in Washington State." Paper presented at the Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.

Jessup, Eric, Shushanik Makaryan and Ken Casavant. "Pacific Northwest Waterborne Commerce: A Detailed Analysis of Up-River and Down-River Movements on the Columbia/Snake River System." Paper presented at the Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.

Pike, Quintin, Ken Casavant and Eric Jessup. "Transportation Usage and Characteristics of the Washington Warehouse/Distribution Center Industry." Paper presented at the Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.

Peterson, Steve, Eric Jessup and Ken Casavant. "Freight Origin and Destination Study for Washington State Trucking: Characteristics and Trends." Paper presented at the Annual Transportation Research Forum Meetings, Washington D.C., March, 2005.

Jessup, Eric and Ryan Herrington. "Estimating the Impact of Seasonal Truck Shortages on Movement of Time-Sensitive, Perishable Products: Transportation Cost Minimization Approach." Paper presented at the Transportation Research Board Meetings, Washington D.C., January 2005

Jessup, Eric, Ken Casavant, Catherine Lawson and Alan Kirk. "Evaluation of Intercept Surveys in Collecting Truck Trip Data: A Case Study of the Portland, Oregon Metropolitan Area." Paper presented at the Transportation Research Board Meetings, Washington D.C., January, 2005.

Newkirk, Jon, Ken Casavant and Eric Jessup. "A Qualitative Approach to Determining the Benefits of Rural Airports: A Case Study of Washington State." Paper presented at the Transportation Research Board Meetings, Washington D.C., January, 2005.

Jessup, Eric and Ken Casavant. "Understanding Grain Movements for Demand Estimation: The Columbia-Snake River System in Washington State." Paper presented at the Transportation Research Board Meetings, Washington D.C., January, 2005.

Ball, Trent, Eric Jessup and Ken Casavant. "Environmental Impacts From an Environmental Policy: Evaluating Drawdowns of a River to Aid Salmon Using GIS and GAMS." Paper Presented at the World Conference on Transportation Research, 2004. Istanbul, Turkey.

Tolliver, Denver, Eric Jessup and Ken Casavant. "Rail Line Abandonment and Highway Preservation: A Case Study of Washington in the U.S." Paper Presented at the World Conference on Transportation Research, 2004. Istanbul, Turkey.

Jessup, Eric, Angela Pike, Jessica Stenger and Ken Casavant. "Washington Mining / Minerals Study." Presentation to the Strategic Freight Transportation Analysis Steering Committee. Spokane, WA. September 2004.

Jessup, Eric, Shushanik Makaryan and Ken Casavant. "Waterborne Commerce Study: Columbia / Snake River Transportation Movements." Presentation to the Strategic Freight Transportation Analysis Steering Committee. Spokane, WA. September 2004.

Meenach, Stephanie, Eric Jessup and Ken Casavant. "Transportation Characteristics and Needs of the Washington Livestock Industry." Presentation to the Strategic Freight Transportation Analysis Steering Committee. Spokane, WA. September 2004.

Peterson, Steve, Eric Jessup and Ken Casavant. "Origin and Destination Survey: Data Request and Analysis." Presentation to the Strategic Freight Transportation Analysis Steering Committee. Spokane, WA. September 2004.

Pike, Quinton, Eric Jessup and Ken Casavant. "Washington Warehouse/Distribution Survey Results." Presentation to the Strategic Freight Transportation Analysis Steering Committee. Spokane, WA. September 2004.

Meenach, Stephanie, Eric Jessup and Ken Casavant. "Transportation Characteristics and Needs of the Washington Hay Industry." Presentation to the Strategic Freight Transportation Analysis Steering Committee. Spokane, WA. September 2004.

Casavant, Ken and Eric Jessup. "Idaho Transportation Department Weight Distance Conversion Study:" Roundtable Discussion / Presentation. Presentation to the National Institute for Advanced Transportation Technology, University of Idaho, Moscow, ID. January 2004.

Jessup, Eric and Ken Casavant. "Idaho Transportation Department Weight Distance Conversion Study." Presentation to the Idaho Transportation Commission, Boise, ID. February 2004.

Casavant, Ken and Eric Jessup. "Preliminary Research Findings: ODOT Freight Data Collection and Methodology Study." Presentation to the ODOT Technical Advisory Committee, Salem, OR, October, 2003.

Jessup, Eric and Ken Casavant. "SFTA Research Findings and Current Biennium Projects." Presentation to the SFTA Steering Committee, Yakima, WA, October, 2003.

Jessup, Eric and Ken Casavant. "SFTA Progress Report and On-Going Research." Presentation to the SFTA Advisory Committee, Yakima, WA, October, 2003.

Ball, Trent, Eric Jessup and Ken Casavant. "Environmental Impacts from an Environmental Policy: Drawdowns of a River to Aid Salmon." Presentation and poster at the 25th Conference of International Association of Agricultural Economists. Durbin, South Africa, August, 2003.

Jessup, Eric, Michael Clark and Ken Casavant. "SFTA Origin-Destination Data Results: Freight Value." Presentation to the SFTA Advisory Committee, Walla Walla, WA, June, 2003.

Ripplinger, Toby, Eric Jessup and Ken Casavant. "Transportation Characteristics of the Washington Wine Industry." Presentation to the SFTA Steering Committee, Walla Walla, WA, June, 2003.

- Jessup, Eric L., Ken L. Casavant and Jerry Lenzi. "A GIS and Transportation Optimization Model Approach to Policy Evaluation." Paper presented at the World Conference on Transportation Research. Antwerp, Belgium. July 1998.
- Jessup, Eric L. and Ken L. Casavant. "EWITS Data and Findings Overview." Paper presented to the Eastern Washington Freight Mobility Advisory Committee Meeting. Yakima, Washington. September 1997.
- Jessup, Eric L. and Ken L. Casavant. "Economic Evaluation of Benefits of State Purchase of Proposed Rail Line in Washington State." Paper presented at the Canadian Transportation Research Forum Annual Meeting. Toronto, Canada. May 1997.
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