

Indigenous Internet: Nuances of Native American Internet Use

Esther Showalter

University of California, Santa Barbara
esh@cs.ucsb.edu

Nicole Moghaddas

University of California, Santa Barbara
nmoghaddas@ucsb.edu

Morgan Vigil-Hayes

Northern Arizona University
morgan.vigil-hayes@naui.edu

Ellen Zegura

Georgia Institute of Technology
ezeg@cc.gatech.edu

Elizabeth Belding

University of California, Santa Barbara
ebelding@cs.ucsb.edu

ABSTRACT

We investigate Internet traffic logs on rural Native American reservations in California served by a tribally-owned Internet provider. The anonymous user browsing traffic and device preferences create unique failure patterns that reveal where connectivity is not well-served by standard networking technology. Geographical and cultural marginalization has led to distinctive Internet usage when connectivity is available. For instance, residents commonly visit websites that are not as popular in the wider United States; and mobile devices dominate web request traffic, often with content-heavy video and media downloads, despite sustaining a higher rate of failure than desktop devices. This statistical analysis of passive measurements avoids institutional and cultural biases and ensures continuing research will contribute to a decolonizing narrative of Native American informational practices and values. Based on our analysis, we propose follow-up research angles to better understand the technological and social drivers behind these findings in order to improve user experience in this, and similar, networks.

CCS CONCEPTS

• **Networks** → *Network performance analysis; Network measurement.*

KEYWORDS

Indigenous networks, performance evaluation, traffic inspection

ACM Reference Format:

Esther Showalter, Nicole Moghaddas, Morgan Vigil-Hayes, Ellen Zegura, and Elizabeth Belding. 2019. Indigenous Internet: Nuances of Native American Internet Use. In *Tenth International Conference on Information and Communication Technologies and Development (ICTD '19)*, January 4–7, 2019, Ahmedabad, India. ACM, New York, NY, USA, 4 pages. <https://doi.org/10.1145/3287099.3287144>

1 INTRODUCTION

Between 2014 and 2016, urban areas of the United States (U.S.) saw the penetration of high speed cellular service rise from 81.9% to 90.5%. During the same time, penetration throughout tribal areas

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ICTD '19, January 4–7, 2019, Ahmedabad, India

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ACM ISBN 978-1-4503-6172-6/19/001...\$15.00

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remained a flat 64% while anecdotal reports put this number much lower [5]. Residents of U.S. tribal lands cannot assume constant connectivity nor the proximity of online content. In response to highly fluctuating connectivity conditions, along with the geographical and cultural isolation of many Indigenous American reservations, tribal communities develop nuances in Internet use that differentiate them from the more general American population [9, 10]. Understanding the differences that emerge from low-bandwidth, dispersed Internet use can help local Internet providers broaden Internet accessibility on tribal lands and increase the quality of use for America's most rural residents.

In this project we analyze anonymous network traffic collected within the Tribal Digital Village network (TDV)¹, a tribally-owned Internet service provider (ISP) founded in 2004 that brings access to homes, educational centers, and community hubs across 17 tribes in 13 Native American reservations in eastern San Diego county, California. Using traces collected over five weeks in February and March 2018 from seven distinct reservations, we characterize the way residents within these communities prefer to go online. This ongoing study has revealed new insights into the quality of connectivity experienced by TDV users by identifying access and usage patterns that may not be well-served by the standard network equipment configuration. Our findings include:

- The most popular websites visited by TDV users do not align with the most popular websites across the U.S.
- Mobile devices interact with more video and image download sites, while fixed-devices are more likely to interact with adware.
- Most connection failures are due to the originating device canceling the request.
- Mobile devices experience more failures than desktop devices across all brands.

2 RELATED WORK

The path to effective information and communication technologies (ICT) on sovereign lands within the U.S. depends on the determination of Native nations' leaders to take control of the digital information flow surrounding indigenous social and political goals [4]. Indeed, the developers of TDV overcame many unusual geographic, economic, technological, and political struggles to take the initiative for their own Internet access and still continue the fight for reliable connectivity in the face of public disinterest [7].

Studies of Internet use in other marginalized communities include [2], [6], and [3]. Six weeks of web traffic from a primary

¹<https://www.tdv.net>

Native American Internet Guide

Mark Q. Sutton



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Native American Internet Guide John Crow,Martha Crow,1998 [An Introduction to Native North America](#) Mark Q. Sutton,2024-06-27 An Introduction to Native North America provides a basic introduction to the Native peoples of North America covering what are now the United States northern Mexico and Canada In this updated and revised new edition Mark Q Sutton has expanded and improved the existing text adding to the case studies updating the text with the latest research increasing the number of images providing more coverage of the Arctic regions and including new perspectives particularly those of Native peoples This book addresses the history of research the European invasion and the impact of Europeans on Native societies A final chapter introduces contemporary Native Americans discussing issues that affect them including religion health and politics The book retains a wealth of pedagogical features to aid and reinforce learning Featuring case studies of many Native American groups as well as some 87 maps and images An Introduction to Native North America is an indispensable tool to those studying the history of North America and its Native peoples *The Internet Guide for the Legal Researcher* Don MacLeod,1997 *The Rough Guide to Internet Radio* L. A. Heberlein,2002 Through your computer you can listen to thousands of stations your radio cannot reach and with *The Rough Guide to Internet Radio* you can begin to explore this astoundingly varied world The Rough Guide gives you **CyberHound's Internet Guide to the Coolest Stuff Out There** Cyberhound,Julie Zakalik Winklepleck,1996 Provides descriptions addresses and ratings for over eight hundred Internet sites **An Introduction to Native North America -- Pearson eText** ,2015-08-26 An Introduction to Native North America provides a basic introduction to the native peoples of North America including both the United States and Canada It covers the history of research basic prehistory the European invasion and the impact of Europeans on Native cultures Additionally much of the book is written from the perspective of the ethnographic present and the various cultures are described as they were at the specific times noted in the text *Guide to American Educational Directories* ,2004

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