

Supplement 1. Review of the socio-economic impact indicators in tourism literature and data sources

Table S1-1 Economic impacts of tourism on local communities

Impacts	Findings	Reference
Positive Economic Impacts		
Employment opportunities	Tourism results in increased employment	(Ahmed 1986; Almeida García, Balbuena Vázquez, and Cortés Macías 2015; Ap and Crompton 1998; Belisle and Hoy 1980; Boissevain 1979; Brayley, Var, and Sheldon 1990; Carmichael, Peppard, and Boudreau 1996; Choi and Sirakaya 2005; Davis, Allen, and Cosenza 1988; Diedrich and García-Buades 2009; Easterling 2004; Faulkner and Tideswell 1997; Forster 1964; Haley, Snaith, and Miller 2005; Hudman 1978a; Joo, Cho, and Woosnam 2019; Keogh 1990; Lawson et al. 1998; Liu, Sheldon, and Var 1987; Milman and Pizam 1988; Prentice 1993; Rasoolimanesh, Ringle, et al. 2017; Rothman 1978; Schroeder et al. 2013; Sinclair-Maragh, Gursay, and Vieregge 2015; Vargas-Sánchez, Plaza-Mejía, and Porras-Bueno 2009; Williams and Lawson 2001)
Income	Tourism is an importance source to increase local incomes	(Almeida García et al. 2015; Andereck and Nyaupane 2011; Brunt and Courtney 1999; Haralambopoulos and Pizam 1996; King, Pizam, and Milman 1993; Korça 1996; Liu et al. 1987; Milman and Pizam 1988; Pizam 1978; Saveriades 2000)
business opportunities	Growth of visitors provide multiple opportunities for local businesses	(Lee, Kim, and Kang 2003; McGehee and Andereck 2004)
Property values (positive)	Increased tourists lead to strong demands for real estate and higher property prices/land value, beneficial to property owners	(Deery, Jago, and Fredline 2005; Fredline, Deery, and Jago 2006; Korça 1996; Saveriades 2000)
Living standard	Tourism helps to enhance the standard of living for the community	(Akis, Peristianis, and Warner 1996; Almeida García et al. 2015; Andereck and Nyaupane 2011; Belisle and Hoy 1980; Haralambopoulos and Pizam 1996; Joo et al. 2019; King et al. 1993; Korça 1996; LaFlamme 1979; Liu et al. 1987; Long, Perdue, and Allen 1990; Milman and Pizam 1988; Pizam 1978; Rasoolimanesh, Ringle, et al. 2017; Saveriades 2000)
Government revenue	Tourists bring additional spending and corresponding taxes	(Fredline et al. 2006; Haley et al. 2005; Huh and Vogt 2008a; Tovar and Lockwood 2008)
Infrastructure and public facilities	Tourism brings higher demand for public facilities, and thus enhances investment, development, and infrastructure construction	(Akis et al. 1996; Andereck et al. 2005; Andriotis 2005; Ap and Crompton 1998; Deery et al. 2005; Fritz 1982; Joo et al. 2019; Rasoolimanesh, Ringle, et al. 2017; Sharma et al. 2008; Sharpley 1994; Tovar and Lockwood 2008; Yen and Kerstetter 2008)
Economic Growth	Tourism contributes to economic growth, as a significant sector and dominant factor in the economy	(Ahmed 1986; Brayley et al. 1990; Choi and Sirakaya 2005; Huh and Vogt 2008b; Perdue, Long, and Allen 1990; Sharma et al. 2008; Sheldon, Var, and Var 1984)

Table S1-1 Economic impacts of tourism on local communities (continued)

Negative Economic Impacts		
Overall higher living cost	Tourism results in increased costs of living for local communities	(Almeida García et al. 2015; Carmichael et al. 1996; Faulkner and Tideswell 1997; Lawson et al. 1998; Liu and Var 1986; McGehee and Andereck 2004; Prentice 1993; Rasoolimanesh et al. 2015; Rasoolimanesh, Ringle, et al. 2017; Saveriades 2000)
Increased prices	Tourism results in increased prices (i.e., food, services, goods, land, etc.)	(Ahmed 1986; Akis et al. 1996; Almeida García et al. 2015; Frauman and Banks 2011; Haley et al. 2005; Hudman 1978b; Jurovski and Gursoy 2004; Lawson et al. 1998; Liu et al. 1987; Long et al. 1990; Lovel and Feuerstein 1992; Perdue, Long, and Allen 1987; Pizam 1978; Schroeder et al. 2013; Sinclair-Maragh et al. 2015; Stonich 1998)
Property values (negative)	Increased property prices raise the difficulty for locals to buy their first home and increase property taxes	(Deery et al. 2005; Fredline et al. 2006; Látková and Vogt 2012)
Benefits not fully distributed	Economic benefits cover a small proportion of the host population	(Belisle and Hoy 1980; Brougham and Butler 1981; Freitag 1994; Getz 1994; Johnson, Snepenger, and Akis 1994; Lindberg, Andersson, and Dellaert 2001; Prentice 1993; Stonich 1998; Tosun 2002)
Seasonal and temporary employment	Employment is seasonal and typically in minimum wages and long working hours	(Easterling 2004; Jordan 1980; Lovel and Feuerstein 1992; Mccool and Martin 1994; Sharpley 1994; Stonich 1998; Tosun 2002)

Table S1-2 Socio-cultural impacts of tourism on local communities

Impacts	Findings	Reference
Positive Socio-Cultural Impact		
Increase culture understanding	Travel and tourism enhance understanding between different cultures	(Andereck et al. 2007; Ap and Crompton 1998; Liu and Var 1986; Milman and Pizam 1988; Pizam 1978; Sharma et al. 2008; Sheldon et al. 1984; Williams and Lawson 2001)
Promote cultural exchange	Tourism produces more communications and thereby promotes cultural exchanges	(Almeida García et al. 2015; Belisle and Hoy 1980; Besculides, Lee, and McCormick 2002; Brougham and Butler 1981; Clements, Schultz, and Lime 1993; Dyer et al. 2007; Korça 1996; Liu et al. 1987; Liu and Var 1986; Sheldon et al. 1984; Yoon, Gursoy, and Chen 2001)
Create leisure and cultural activities	Tourism development creates more leisure and recreational activities and facilities	(Almeida García et al. 2015; Andereck et al. 2005; Andereck and Nyaupane 2011; Brunt and Courtney 1999; Gursoy, Jurovski, and Uysal 2002; Joo et al. 2019; Korça 1996; Liu et al. 1987; Perdue et al. 1990; Sinclair-Maragh et al. 2015; Tovar and Lockwood 2008; Yoon et al. 2001)
Social opportunities	Growth in leisure and entertainment venues generates more opportunities for locals to socialize.	(Deery, Jago, and Fredline 2012; Fredline et al. 2006)
Improve quality of life	tourism activities and subsequent development overall improve residents' quality of life	(Almeida García et al. 2015; Joo et al. 2019; Long et al. 1990; McGehee and Andereck 2004; Milman and Pizam 1988; Pizam 1978)

Pride in community	Community pride and cohesion increase as more outsider (tourists) arrive	(Andereck et al. 2007; Ap and Crompton 1998; Diedrich and García-Buades 2009; Gursoy et al. 2002; Huh and Vogt 2008b; McGehee and Andereck 2004; Rasoolimanesh, Jaafar, et al. 2017)
Tradition revitalization	Tourism revitalizes traditional practices and customs, reinforces cultural identity of local communities	(Almeida García et al. 2015; Andereck et al. 2005; Ap and Crompton 1998; Besculides et al. 2002; Liu and Var 1986; Oviedo-Garcia, Castellanos-Verdugo, and Martin-Ruiz 2008; Sinclair-Maragh et al. 2015; Yoon et al. 2001)
Negative Social-Cultural Impacts		
Increased prostitution	Increased entertainment facilities and alcohol consumption brought by tourism may result in increased prostitution	(Almeida García et al. 2015; Belisle and Hoy 1980; Liu et al. 1987; Liu and Var 1986; Matarrita-Cascante, Brennan, and Luloff 2010; Park and Stokowski 2009; Sheldon and Abenoja 2001)
Increased crime	Certain crimes (e.g., rowdy behavior, drug and alcohol abuse) are perceived to occur more often in tourist-flocking destinations	(Almeida García et al. 2015; Andereck et al. 2005, 2007; Brunt and Courtney 1999; Deery et al. 2005; Diedrich and García-Buades 2009; Fredline et al. 2006; Haley et al. 2005; Haralambopoulos and Pizam 1996; King et al. 1993; Lankford 1994; Lindberg et al. 2001; Long et al. 1990; Milman and Pizam 1988; Park and Stokowski 2009; Rasoolimanesh, Ringle, et al. 2017; Sinclair-Maragh et al. 2015; Yen and Kerstetter 2008)
Increased gambling	As a major attraction facility, gambling venues may result in social problems for the locals who subsequently get addicted to	(Carmichael 2000; Fredline et al. 2006; Hsu 2000; Lee and Back 2006; Lee et al. 2003)
Cultural clashes and moral value changes	The social and moral value introduced by tourists may disturb or controversially change the indigenous	(Fredline et al. 2006; Marzuki 2011; Woosnam, Norman, and Ying 2009; Zamani-Farahani and Musa 2012)
Undermine community relationships	Tourism erodes social fabric of communities, exacerbates class divisions and increases subgroup conflicts	(Brayley et al. 1990; Choi and Murray 2010; Davis et al. 1988; Faulkenberry et al. 2000; Frauman and Banks 2011; Martin 2008; Sharma et al. 2008)
Intensify labor burdens	Local business may exploit workers during peak seasons	(Brayley et al. 1990; Freitag 1994)
Loss of authenticity	Tourism prompt inauthentic behaviors of the locals catering for the needs of visitors (e.g., loss of native languages)	(Bachleitner and Zins 1999; Brougham and Butler 1981; Easterling 2004; Gjerald 2005; Swart, Bob, and Arrey 2010)

Table S1-3 Environmental impacts of tourism on local communities

Impacts	Findings	Reference
Positive Environmental Impacts		
Preservation of nature	Tourism helps preserve natural resources	(Akis et al. 1996; Almeida García et al. 2015; Andereck et al. 2005; Andereck and Nyaupane 2011)
Facade and appearance	Tourism stimulates destinations to improve/maintain the appearance of the communities or surroundings	(Andereck et al. 2005; Korça 1996; Oviedo-Garcia et al. 2008; Perdue et al. 1987)
Environmental awareness	Tourism enhances the awareness of environmental issues among local communities	(Almeida García et al. 2015; Sinclair-Maragh et al. 2015)
Negative Environmental Impacts		
Increased Pollution	Tourism results in increased pollution (air, water, noise, etc.)	(Akis et al. 1996; Almeida García et al. 2015; Almeida-García et al. 2016; Deery et al. 2005; Easterling 2004; Fredline et al. 2006; Ko and Stewart 2002; Lawson et al. 1998; Pizam 1978; Rothman 1978; Tyrrell and Spaulding 1984; Yen and Kerstetter 2008)
Litter and rubbish	Increased tourists bring more trash	(Almeida García et al. 2015; Andereck et al. 2005; Brunt and Courtney 1999; Haley et al. 2005; Lankford 1994; Liu et al. 1987; McGehee and Andereck 2004)
Sabotage natural beauty and tranquility	Tourism reduces natural beauty (e.g., deforestation) and disrupt tranquility ambiance	(Akis et al. 1996; Ap and Crompton 1998; Brayley et al. 1990; Faulkner and Tideswell 1997; Sinclair-Maragh et al. 2015)
Over-Crowding	Overcrowding is a direct result of tourism	(Akis et al. 1996; Andereck et al. 2005; Ap and Crompton 1998; Brougham and Butler 1981; Choi and Sirakaya 2005; Fredline et al. 2006; Liu and Var 1986; Pizam 1978; Rothman 1978; Var, Kendall, and Tarakcioglu 1985; Woosnam et al. 2009)
Traffic and Parking Congestion	Flocking of tourists is a significant reason of traffic congestion and lack of parking	(Akis et al. 1996; Almeida García et al. 2015; Andereck et al. 2005; Ap and Crompton 1998; Brougham and Butler 1981; Caneday and Zeiger 1991; Choi and Sirakaya 2005; Dyer et al. 2007; Haley et al. 2005; Johnson et al. 1994; Jurowski and Gursoy 2004; Látková and Vogt 2012; Liu et al. 1987; Liu and Var 1986; Perdue et al. 1990; Pizam 1978; Rasoolimanesh, Ringle, et al. 2017; Rothman 1978; Sheldon et al. 1984; Sinclair-Maragh et al. 2015; Var et al. 1985)
Over-Harvesting	Tourism causes depletion of wildlife (especially in fishing resources)	(Cooke 1982; Doh 2006; Easterling 2004; Liu et al. 1987)
Local wildlife habitats reduction	Tourism developments intrude native wildlife habitat	(Andereck et al. 2005; Frauman and Banks 2011; Huh and Vogt 2008b; Sharma et al. 2008; Woosnam et al. 2009)

Table S1-4 Data sources for top-down indicators of the impacts of tourism industry

Index	Measures	Submeasure	Source/database	Explanation
Accommodation Industry Performance				
Inv1	Quantity	Property inventory	STR	Number of participating hotels
Inv2		Room inventory	STR	Number of rooms in participating hotels
Inv3		Property inventory	Trip Advisor	Number of hotels
Pop	Attractiveness	Popularity	Trip Advisor	Number of hotel reviews
Qual	Quality	Review Rating	Trip Advisor	Mean review rating
Direct Accommodation Industry Impact				
Tax	Economic contribution	Tourist and convention tax revenues	Florida Office of Economic and Demographic Research	Local Option Tourist Tax Levies in Florida's Counties
Empl	Employment	Employment Rate	County Business Patterns	Ratio of employment in accommodation industry to total employment
PayR	Economic contribution	Payment Ratio	Bureau of Economic Analysis	Ratio of payment from accommodation industry to payment from all sectors
GDPR		GDP Rate	Bureau of Economic Analysis	Ratio of GDP of accommodation industry to total economy
Indirect Accommodation Industry Impact				
Eq1	Social equality	Business minority equality	Survey of Business Owners	Ratio of minority owned business in accommodation and restaurant industry
Eq2		Business gender equality	Survey of Business Owners	Ratio of female owned business in accommodation and restaurant industry
Inc	Income and wealth	Income	Small Area Income and Poverty Estimates	Median household income
Hous		House Value	American Community Survey, 5-year estimates	Median Value of Owner-Occupied Housing Units
Unem		Unemployment	Bureau of Labor Statistics	Rate of unemployment
Pov		Poverty	Small Area Income and Poverty Estimates	Percentage of people in poverty
Ineq		Income inequality	American Community Survey, 5-year estimates	Ratio of household income at the 80th and the 20th percentiles
CrimV	Community safety	Violent crime	FBI Uniform Crime Reporting	Violent crime offenses per 100,000
CrimP		Property crime	FBI Uniform Crime Reporting	Property crime offenses per 100,000
Educ	Education	Higher education	American Community Survey, 5-year estimates	Percentage of adults ages 25-44 with at least some post-secondary education.
Ins	Health	Health insurance	Small Area Health Insurance Estimates	Percentage of insured in demographic group for all income levels
Life		Life expectancy	National Center for Health Statistics	Average number of years a person can expect to live.

References to tables S1-1, S1-2, and S1-3

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