

Taxi Study: Credit Card Processing Fees, Back-Seat Monitors, and Electronic Waybills

A presentation to

San Francisco Municipal Transportation Agency

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Three-Topic Study

- Fees Assessed to Credit Card Trips
- Back Seat (Passenger Information) Monitors
- Electronic Capture and Reporting of Waybill Data
- Perceptions of three topics intertwined because of the “waiver” program...but
- They are three separate topics and each should be considered separately

Presentation Organization

- Study methodology
- For each topic, we will first present/discuss:
 - Background
 - Driver perceptions and concerns
 - Other relevant findings
- Recommendations

Study Methodology

- Review of SFMTA documents and correspondence
- Web review of industry literature
- In—person interview with SFMTA Taxi Services staff
- In—person interviews with local stakeholders
 - Taxi owners and managers
 - Drivers and driver representatives

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Study Methodology (continued)

- Follow-up clarification phone calls
- Collection and review of relevant data from 11 cities
- Phone interviews with credit card processing firms
- Analysis of additional credit card trip data
- Incorporation of staff comments on draft report

Background:

Fees Assessed on Credit Card Trips

- Processing fees on credit card trips have been assessed to drivers since the advent of credit card usage in taxis
- Charging drivers for such fees banned in 1997 at a time when credit card usage was not prevalent
- Some companies ceased practice; some did not.
- SFMTA introduces “waiver” program, authorizing the charging (to drivers) of up to 5% on credit card trips (industry standard)

Background (continued): Fees Assessed on Credit Card Trips

- Waiver participants must (1) install back seat monitors; and (2) electronically collect waybill data, with reporting requirements TBA
- Waiver program meant to incentivize
- SFMTA approved five companies to participate
- Driver fees assessed since April 2011 to present
- SFMTA has put a “freeze” on new participants, pending outcome of this study

Driver Perceptions and Concerns: Fees Assessed on Credit Card Trips



- 5% fee in part resulted in driver protests
- Town meetings held to understand drivers' concerns
- Concerns about fee focused on:
 - Drivers believing processing cost is much less than 5%
 - Drivers perceiving remainder of fee is used to cover cost of acquiring/maintaining back seat monitors
 - Drivers being assessed “one more cost” lumped onto to other costs stemming from institutionalized tipping
- Also concerned about 1099-K form – reports on credit card trip revenues for each driver

Findings:

Fees Assessed on Credit Card Trips

- Is the cost of processing credit cards less than 5%?
 - One credit card firm rep stated cost equates to about 3%
 - Another stated that cost ranges from 2.35 to 2.5%
- 5% industry standard largely based on NYC fee
- What does balance go toward?
 - Equipment costs and their installation, air time, 24/7 tech support, customer service support, chargeback service, warrant services, and profit
 - No breakdown data available

Findings (continued): Fees Assessed on Credit Card Trips

- Is the 5% fee onerous?
- When considered by itself, some drivers say - **No**

Percent of Trips Paid with Credit Cards	Average Income on Credit Card Trips Based on \$300 Revenue/Day Total	Fee @ 5%
30%	\$90	\$4.50
40%	\$120	\$6.00
50%	\$150	\$7.50

- But, when considered with other costs - **Yes**

Findings (continued): Fees Assessed on Credit Card Trips

- Other fees and institutionalized tipping add up
 - Bank fees: ATM fees (with cash withdrawal limits), transfer fees, and customer service call fee charges
 - Late fees – another 5% charged if 24 hours late
 - Company charge drivers for supplies associated with collecting data and credit card processing
 - Internal tipping ranges from \$12 to over \$20 per day
 - External tipping (\$10 for hotel doorman)

Findings (continued): Fees Assessed on Credit Card Trips

- Driver concerns regarding Form 1099-K
 - Reports annual credit card income for each driver
 - Some drivers fear that report total will not “agree” with income reported to the IRS
 - Report will prompt other drivers to file with IRS
 - Other drivers fear that reported credit card income will show they are no longer eligible for public assistance
 - Concerns regarding electronic capture and reporting of data are similar

Findings (continued): Fees Assessed on Credit Card Trips

- Driver use of the “Square” and other devices
 - Some drivers have begun using the Square to lower their fees assessed on credit card trips
 - 2.75% (Square) vs. 5% assessed with credit card trips processed via installed equipment

Findings (continued): Fees Assessed on Credit Card Trips

- Use of the Square & similar devices decentralizes data
- Use of the Square and similar devices creates a kink in customer support
 - Print-outs from in-vehicle equipment show the meter amount, extra charges, tip, the date, the time, the cab number, and a unique trip ID
 - Better for customer; easier for company to respond
- Security of personal information more secure with in-vehicle equipment; whole solution is PCI compliant

Background:

Back Seat Monitors (PIMs)

- Touch screens mounted in back, providing:
 - A way to pay for credit card trips
 - Key information about taxicab, driver and rates
 - Wayfinding information, entertainment and ads
 - Volume control
- Card reader built-in
 - able to read credit cards and paratransit fare debit cards
 - some with capability to handle contact-less credit cards
- Connected to computer/meter/GPS via cable
- Some have required disabling of front card reader from handling credit cards; these also have driver screens

National Experience: Back Seat Monitors

- Required in Boston and New York
- New York installations accompanied credit card capability
- Installed by some companies in Dallas/Ft. Worth, Las Vegas, Los Angeles, Philadelphia, Seattle

Back Seat Monitors and The Waiver Program

- 5 companies were “approved” to participate in waiver program; at time of interviews (mid-Sept)

Taxi Company	PIMs	Notes
DeSoto	110	Virtually the entire fleet
Luxor	60	Out of 229 cabs
Metro	0	Out of 24 cabs
National	76	Virtually the entire fleet
Yellow	50	Out of 500+ cabs

- Included in waiver program because monitors were thought to enhance customer experience
- Anecdotal info: driver tips would increase

Do Back Seat Monitors Enhance The SF Taxi Customer Experience?

- No one knows for sure; data lacking.
- Things to like:
 - Ability to pay without surrendering credit card
 - Key information about taxicab, driver and rates
 - Wayfinding information
- Need more data on customer perceptions on:
 - Ads and TV clips (volume)
 - Brightness
 - Ease of use
 - Alternative devices for card readers

Other Thoughts on Customer Experience: Back Seat Monitors

- Anecdotal data available from drivers at town hall meetings and interviews:
 - Both positive and negative perceptions
 - One key negative: when system is not available
- Anecdotal data from taxi managers interviewed:
 - Mostly positive; provide convenience and consistency
 - A good way to distinguish real cabs from illegal cabs
- NYC customer survey about taxi likes/dislikes
 - “Taxi TV is annoying” – 2nd most popular dislike

Driver Perceptions / Concerns about Back Seat Monitors

- Anecdotal data from other cities suggests that initial negative perceptions but drivers have since “gotten used to them”
- Positive Comments from SF Drivers:
 - Tip increase? Would like to see hard data.
- Negative Comments from SF Drivers:
 - Noise and ads annoying; compromise safety
 - Time-consuming; delays responding to next trip
 - Inability to “test” credit card
 - Must use imprint machine if system is down
 - Can present an obstacle (if mounted in a certain way)
 - Destroy driver-customer relationship
 - Radio frequency exposure may be harmful

Other Thoughts on Driver Experience: Back Seat Monitors

- Anecdotal data available from taxi managers:
 - Both positive and negative perceptions
 - One manager believes his driver likes them
 - Other managers agree that noise can be distracting, and wouldn't mind if audio was disabled
 - Another manager acknowledged driver contention that front-seat readers take less time
 - Drivers free to re-align with companies that do not have back-seat monitors

Other Company Rep Thoughts Regarding Back Seat Monitors

- Should be a business decision and not tied in with a requirement or incentive program
- Some have done this in order to pass along costs of processing credit card transactions
- Some point to lack of consistency in monitoring compliance with waiver conditions
- Advertising revenue may be a non-issue

Do Back Seat Monitors Prompt Higher Tip Amounts?

- Preliminary SF data suggests Yes
 - Yellow analysis: 2.5% higher
 - DeSoto analysis: 3.2% higher
- Shortcomings of analyses suggest more thorough research is necessary
- DeSoto's data also shows a huge increase in credit card fares for same cabs
 - Credit card tips doubled
 - Do back seat monitors induce credit card use?
- Yellow: Credit card trips - 30% to 35% of total and increasing by a difference of 2% to 3% a year

Do Back Seat Monitors Increase Radio Frequency Exposure?

- Preliminary SF data suggests No
- SFMTA conducted tests in July 2011
 - RF readings taken in three cabs
 - Readings taken all around drivers and inside and outside the cabs
 - Real-time RF readings recorded
- Zero readings for all samples
- Additional tests should be made because:
 - Small sample
 - A small part of the UHF RF region was missing from test

Background: Electronic Capture and Reporting of Waybill Data

- Waybills are the manifests where trips (and trip information) are documented manually by drivers
- Drivers turn waybills into taxi companies
- Waybill information used by SFMTA to confirm driver history for medallion applicants and holders
- Waybills must be stored for 6 years

Issues with Paper Waybill Data

- Unreliable as a source of data for planning – under-reporting of service
- Documented cases of waybills being manufactured -- some drivers don't fill out waybills
- Why? Some drivers wish to minimize income reported; similar in other cash businesses

Pros and Cons of Electronic Capture of Data

- Electronically captured data generally regarded as more accurate than data recorded on paper waybills
- Several SF taxi companies (reflecting 65% of cabs) already capture waybill data electronically
- Shortcomings: inaccuracies need to be addressed
 - Drivers forget to turn meter off/on
 - Drivers do not indicate correct number of passengers
 - Drivers “high-flag” on trips with negotiated flat fares
 - Driver invoke meter to indicate “busy” on top light
 - Holes in GPS system

Driver Perceptions about Data Electronically Captured/Reported

- Drivers generally agree that data electronically captured is more accurate and that the accuracy of data is key to proper planning
- Drivers understand that certain driver information is needed to confirm driver history
- Drivers do not want income data reported to SFMTA
 - Reporting of income to IRS
 - Jeopardizes public assistance
 - Susceptible to hacking
 - May be used to “red-flag” excessive hours

Industry Trends: 11 Cities Reviewed



Industry Trends: Findings

- 8 of 11 cities contacted require drivers to accept credit cards
- Fees charged on credit card trips
 - Fees charged to drivers on credit cards range between 3% and 10%; 5% most common
 - Customers pay fee in Las Vegas via pass
 - Breakdown of fee unavailable from cities
 - NYC is considering a fee reduction (5% to 4%)
- Most of the cities contacted do not have a credit card minimum
 - Los Angeles has a \$7 minimum

Industry Trends: Findings (continued)

- Most of the cities contacted do not require back seat monitors
 - Required in Boston and New York City
- Half the cities contacted require electronic reporting
 - Monthly/annual electronic reporting required in: Boston, Ft. Worth, Las Vegas, Los Angeles, New York City and Seattle
 - Data reported includes statistical information (e.g., dispatch data, trip counts, revenue miles)

Recommendations: Actions related to credit card processing

1. SFMTA should formally pre-qualify a credit card company or companies

- RFI/RFQ/RFP process
- Evaluation criteria based on rates and rate structure, services (and fees), and relevant experience
- The goal is to minimize costs for drivers -- given they would likely end up covering this cost
- A Las Vegas-style customer “pass” or automatic fee could still be implemented but would require a change to a state law and could result in fewer taxi trips

Recommendations: Actions related to credit card processing

2. Drivers should be allowed to designate bank accounts for deposit of credit card (net) income

- This potentially reduces / eliminated fees associated with bank accounts set up by credit card processing companies
- At least once company already has adopted this policy

3. SFMTA should establish a credit card minimum

- Goal: to help reduce total fees related to credit card charges
- Pilot program to determine impact on customers/ridership
- Or, conduct research first to determine current use of credit cards for short trips and customer attitudes

Recommendations: Actions related to credit card processing

4. SFMTA should require use of installed in-vehicle equipment for credit card processing

- Likely more secure than some alternative devices
- Enhances customer experience
 - Information on printed receipt; facilitates questions
- Easier for taxi companies to address questions/complaints
- Centralized data ensures data integrity, accurate reporting
- Major attraction of alternative devices (lower fee) may be moot with implementation of #1; but, could still serve in back-up role

Recommendations: Actions related to back seat monitors (PIMs)

- 5. SFMTA should mandate the disabling of audio or the installation of equipment allowing driver control of volume**
 - The repetitive noise factor is more than an annoyance; it is a potential safety hazard for drivers
 - Either action provides a technological “fix”
- 6. SFMTA should remove the installation of back seat monitors as a waiver program condition**
 - Should be a business decision and not linked to fees on credit charge trips charged to drivers
 - Additional data on customer preferences should be sought

Recommendations: Actions related to back seat monitors (PIMs)

7. **SFMTA should conduct a “before and after” analysis of credit card tip data to determine effect of back seat monitors on tip amounts**
 - Analysis important to drivers
 - Preliminary analyses encouraging but not definitive
 - Conclusive positive results, in combination with recommendation #5, should result in higher driver acceptance

Recommendations: Actions related to electronic capture of waybill data

- 8. SFMTA should require all taxi companies to (a) collect waybill data electronically; (b) periodically report service/statistical data; and (c) retain driver-specific data for specific oversight needs**
 - Data currently available electronically may provide a slanted picture
 - Reporting conforms to the “compromise” approach
 - Approach results in more accurate data, less fraud, and less staff time devoted to identifying/combating fraud
- 9. SFMTA should implement ways to improve accuracy of electronic data capture**
 - Fix the ‘top light’ issue so drivers do not have to invoke meter
 - Ensure training/re-training addresses misuse of meter