

TECHNICAL MEMORANDUM #2: Transit Survey Analysis

Lawrence Transit COA

Lawrence-Douglas County MPO

August 2016







Lawrence-Douglas County MPO

Table of Contents

		Page
1	Introduction	1
	Key Findings	1
2	Survey Responses	2
	Respondent Demographics	
	Transit Reliance	
	Trip Information	
	Customer Perception	
	Survey Outreach and Written Comments	
Tab	ole of Figures	
		Page
-	re 1 Employment Status of Survey Respondents	
-	re 2 Annual Income of Survey Respondent Households	
-	re 3 Gender of Respondents	
•	re 4 Age of Respondents	
•	re 5 Frequency of Use	
Figu	re 6 Reasons for Using Transit	6
Figu	re 7 Reasons for Not Using Transit	6
Figu	re 8 Optimal Transit Use among Non-Transit Users	7
Figu	re 9 Primary Modes of Transportation Used among Non-Transit Users	8
Figu	re 10 Alternative Modes of Transportation Used in Lieu of Transit	8
Figu	re 11 Survey Results by Route	9
Figu	re 12 Trip Origin and Destination Locations	10
Figu	re 13 Fare Payment Type	11
Figu	re 14 Where Respondents Purchased Pass Products	11
Figu	re 15 Respondent Perception of Service Features	12
Figu	re 16 Summary of Customer Preferences	13
Figu	re 17 Respondent Preference for Frequency vs. Service Span	14
Figu	re 18 Respondent Preference for Expanded Weekday vs. Weekend Service	14
Figu	re 19 Respondent Preference for Improved Existing Service vs. Serving New Areas	15
Figu	re 20 Respondent Preference for Fewer Bus Stops vs. More Bus Stops	15
Figu	re 21 Respondent Preference for Frequent Bus Operations vs. Less Frequent Bus Operations	16
Figu	re 22 Respondent Awareness of Survey	
-	re 23 Summary of Written Comments	
•	re 24 On-Board Survey Instrument - English	



Lawrence-Douglas County MPO

INTRODUCTION

The Coordinated System (CS) of Lawrence Transit and KU on Wheels is the primary public transportation operator serving the City of Lawrence, Kansas. The agency is currently evaluating its system performance and route structure as part of a Comprehensive Operational Analysis (COA). The COA consists of several large tasks, including a review of existing conditions, an assessment of travel demand, and a detailed evaluation of City of Lawrence services. Throughout this process CS, in consultation with Nelson\Nygaard, will conduct an extensive outreach process designed to both inform stakeholders and generate a community vision for the future of transit in the Lawrence region. This public input, along with the analysis generated throughout the COA process, will then be used to develop a series of service improvement recommendations.

This technical memorandum summarizes the on-board and online survey responses collected from April through June 2016. The on-board and online survey were largely the same; however, similar questions had to be worded differently on the two surveys in some cases because the online respondents were not on a vehicle when completing the survey. The survey was available in English and Spanish.

KEY FINDINGS

Nearly 1,000 community members completed the CS Survey, either online or on-board. Preliminary analysis of these survey efforts includes the following key findings:

- Existing riders rely heavily on local bus services, with a combined 83% of riders using the service either daily or weekly.
- Most riders reported that they are students (39%) or employed full-time (28%).
- A significant portion trips completed on the system are made between riders' homes and school, or vice versa.
- Survey respondents have a very positive perception of transit service in Lawrence, and are satisfied with current route alignments, fares, bus comfort and cleanliness, and the professionalism of transit staff.
- There is strong support for the addition of Sunday service, as well as increased evening service.
- Three main factors are responsible for transit use in Lawrence: lack of a personal vehicle, unavailable or expensive dedicated parking at a user's end destination, and the affordability of taking the bus (opposed to paying for gas and vehicle maintenance).



2 SURVEY RESPONSES

Surveys were collected online, via the study website, and from surveys administered to riders on-board transit vehicles. On-board surveys were conducted on all city and university routes in April 2016. The survey instrument is shown in Appendix A. As of June 30, 2016, 968 respondents had completed the CS Survey: 160 respondents completed the survey online and 807 respondents completed the survey on-board a transit vehicle.

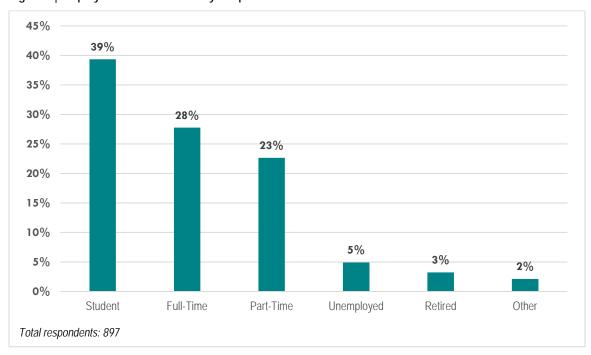
RESPONDENT DEMOGRAPHICS

Based on survey responses, the typical CS rider is either employed or a student and has a household income significantly below the metropolitan area median.

Employment Status

Just over half of survey respondents (51%) reported being employed in either a full-time (28%) or part-time (23%) position (Figure 1). Equally important, nearly 40% of respondents were students. A further 5% of respondents were unemployed at the time of the survey, while 3% are retired. Around 2% of respondents answered "Other," with the most common response being "disabled."

Figure 1 | Employment Status of Survey Respondents





Lawrence-Douglas County MPO

Household Income

At least 80% of survey respondents reported living in households with annual incomes below the Douglas County median income (\$50,732). Nearly 40% of respondents report household incomes of less than \$10,000, and 68% earn less than \$29,999 (Figure 2). Only 18% of respondents' households earn over \$50,000. This finding suggests that many transit riders in Lawrence live at or significantly below the poverty line.

Household income figures also reflect a younger demographic that is focused on education and is not fully employed in the workforce. With a large rate of participation from students, it is possible that some students are financially dependent on a guardian or did not report scholarships or stipends as income. Therefore, the percentage of respondents with a household income less than \$30,000 may be inflated.

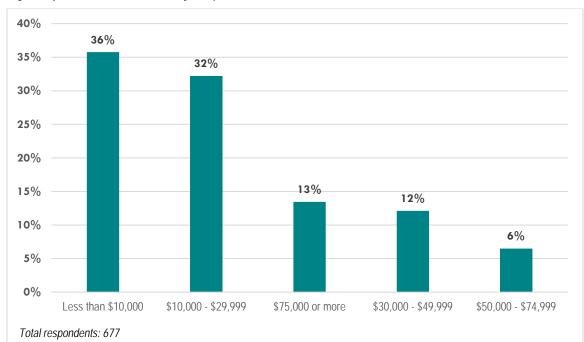


Figure 2 | Annual Income of Survey Respondent Households

¹ United States Census, QuickFacts. Douglas County, Kansas: http://www.census.gov/quickfacts/table/INC110214/20045



Lawrence-Douglas County MPO

Gender

Respondents were slightly more likely to be male (51%) compared to female (49%) (Figure 3). Nationally, 55% of transit trips are taken by females.²

60% 51% 49% 50% 40% 30% 20% 10% 0%

Figure 3 | Gender of Respondents

Age

The majority of survey respondents-57%—are college age, between 18 and 25 years old (Figure 4). This result is not surprising since Lawrence Transit and KU on Wheels service is fully coordinated, and students can ride any bus for free with their KU identification.

Male

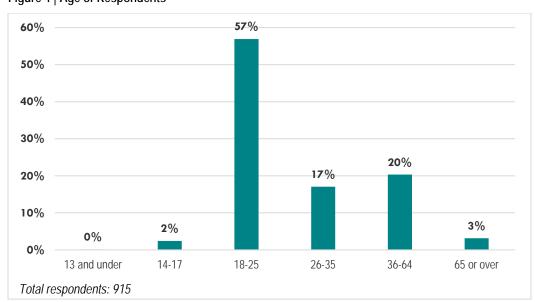


Figure 4 | Age of Respondents

Total respondents: 892

Female

² American Public Transportation Association: <u>A Profile of Public Transportation Passenger Demographics and Travel</u> Characteristics Reported in On-Board Surveys.



Lawrence-Douglas County MPO

TRANSIT RELIANCE

Many CS riders rely on local transit services as their primary means of transportation. Nearly two-thirds of respondents ride transit almost every day, and 51% of respondents would rely on walking if transit services were unavailable.

Frequency of Use

Over 80% of respondents surveyed reported that they regularly rely on local bus services to provide mobility around Lawrence (Figure 5). Over 60% of survey respondents reported that they ride CS almost every day, while an additional 19% ride multiple times per week. A combined 12% of respondents report using local bus service a few times per month or on rare occasions, while only 4% of respondents indicated they do not use transit.

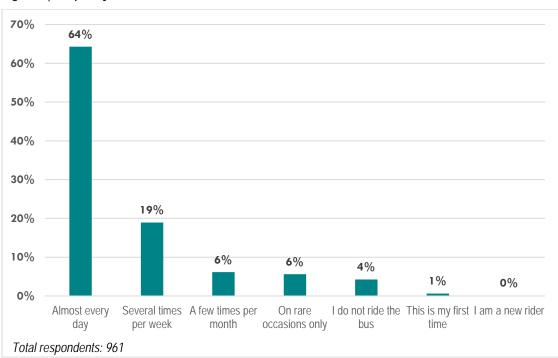


Figure 5 | Frequency of Use

Reasons for Using Transit

The survey asked existing transit riders to categorize the primary reasons they use local transit services. Respondents were able to select multiple answers to this question.

Over 50% of respondents are reliant on CS because they do not own a vehicle, cannot drive, or their car is temporarily out of service (Figure 6). A third of respondents use transit because parking at their destination is either unavailable or expensive, and an equivalent percentage ride because the bus is more affordable than paying for costs associated with driving. These findings further emphasize that many passengers are reliant on transit and ride largely because they do not have other options. Some passengers report riding for environmental reasons (20%) and others prefer using the downtime associated with being a passenger rather than driving (12%).



Lawrence-Douglas County MPO

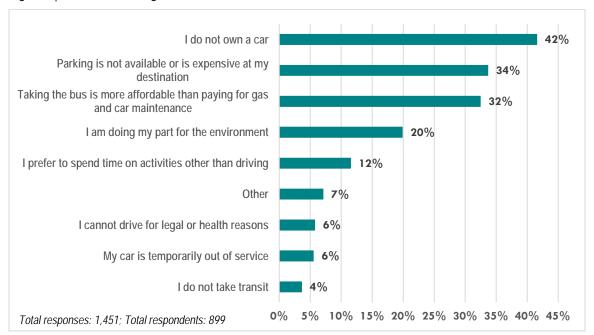


Figure 6 | Reasons for Using Transit

Reasons for Not Using Transit

Of online respondents who said they rarely or do not use transit, over 50% of respondents do not use CS because they need a personal vehicle for work or errands. However, nearly all respondents also indicated that they do not use transit due to service, operational, or informational concerns (Figure 7). The most common response given under "Other" is that driving is faster and more convenient. Very few respondents do not feel safe on-board the transit vehicles. Respondents were able to select multiple answers to this question.

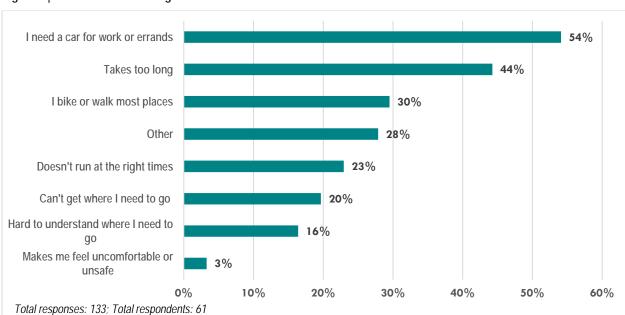


Figure 7 | Reasons for Not Using Transit



Lawrence-Douglas County MPO

Optimal Transit Use

If nothing was preventing survey respondents from using transit in Lawrence, shopping, recreational, and social activities are the primary trips users would make via local bus services. Commuting to and from work also recorded nearly a 30% response rate (Figure 8). Commuting to school represents a small subset, indicating that current non-users of the system are not students. This question was not included in the on-board survey and only answered by those who indicated that they rarely or never ride the bus.

40% 30% 30% **27**% 23% 20% 15% 10% 5% 2% 0% Commuting to/from Medical Other Commuting to/from Shopping or Recreational or personal errands work social trips appointments school Total respondents: 128

Figure 8 | Optimal Transit Use among Non-Transit Users

Primary Modes

Among respondents who rarely or do not take transit, over 70% said their primary mode of transportation was to drive alone (Figure 9). Over one- fifth of respondents (22%) indicated that they would bike or walk, while just 5% said they would find a ride or carpool.



Lawrence-Douglas County MPO

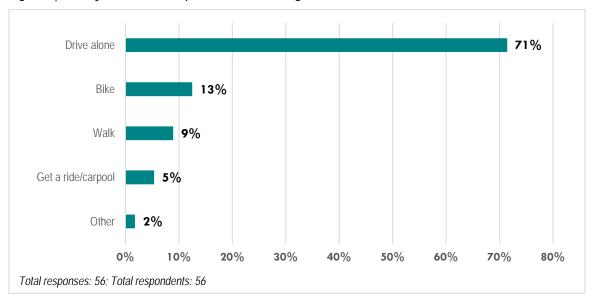


Figure 9 | Primary Modes of Transportation Used among Non-Transit Users

Alternative Modes

Survey respondents who regularly use transit were asked to evaluate their transportation options if their primary bus route did not exist. Respondents could select up to three alternative transportation options. Walking scored highest (51%), followed by 17% of respondents that indicated they would shift to another existing route. Biking represents an 11% share, and a combined 29% of respondents would drive alone or carpool. Nine percent of respondents would not make the trip at all, if their preferred route did not operate.

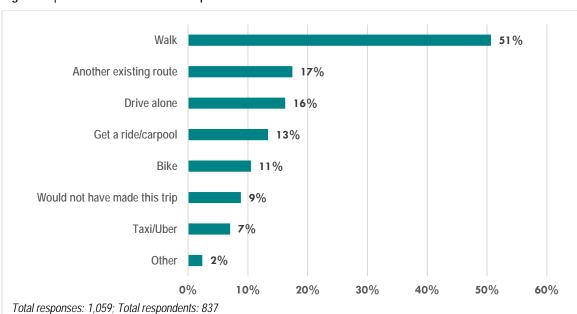


Figure 10 | Alternative Modes of Transportation Used in Lieu of Transit



TRIP INFORMATION

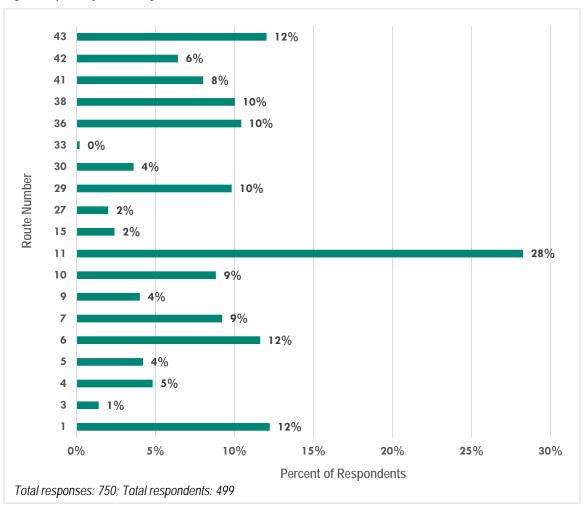
Survey respondents were asked to identify the bus route used on their most recent one-way trip with CS. Respondents were then asked to identify the origin location and ending destination on the same trip. The majority of riders use local bus service to travel between their home and school: 81% of trips originated at home or school and 75% of trips conclude at home or school.

Routes Utilized

According to survey respondents, the most utilized CS route is Route 11, which travels from downtown Lawrence to the Pine Ridge Plaza shopping center. Figure 11 displays the routes used by respondents to complete their current one-way bus trip (on-board survey) or most recent one-way bus trip (online survey). Routes 1, 6, 11, 29, 36, 38, and 43 each represent at least 10% of trips made using CS.

It's important to note that trips on university-focused routes are generally short, which leaves little time to complete a survey. Additionally, routes with high ridership create a more difficult environment for survey administration as it is difficult for the surveyors to move through crowded buses to distribute, collect, or administer surveys.

Figure 11 | Survey Results by Route





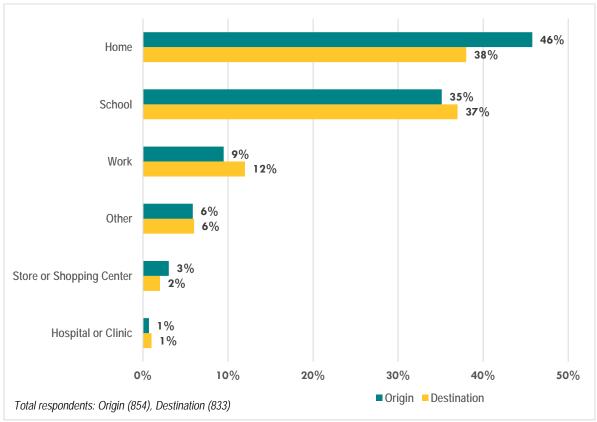
Lawrence-Douglas County MPO

Trip Purpose

Survey respondents were asked to indicate a general trip origin and destination for their most recent trip using CS. The mix of trip origin and destination responses (between home, school, and work) indicate that surveys were completed during both the morning and evening periods. Nearly half of survey respondents started their trip from home, 35% began trips from school, and 9% started their trip at work (Figure 12).

Ending destinations were nearly equal between home (38%) and school (37%); work represented the final destination for 12% of respondents (Figure 12). These responses indicate that most riders are using local bus services for commuting between home and work or school.

Figure 12 | Trip Origin and Destination Locations



Fare Medium

Reflecting CS's high percentage of student riders, nearly 80% of survey respondents used a KU card as fare payment on their most recent bus trip. Cash is the second-most popular fare payment method, followed by a monthly pass, 10-ride punch card, and day pass.



Lawrence-Douglas County MPO

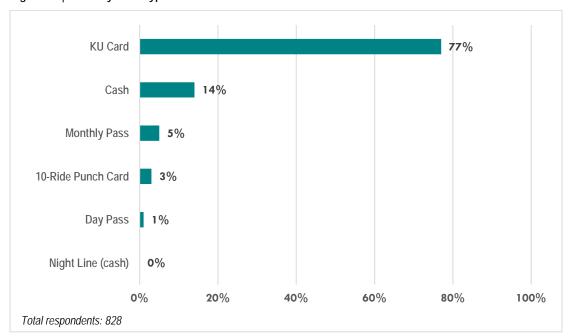


Figure 13 | Fare Payment Type

Fare Acquisition Location

Of respondents that purchased a bus pass for taking transit, 50% bought the pass at a Dillons grocery store (Figure 14). Thirty-two percent of pass users indicated that they obtained it from a different source, with KU being the most common response. Ten-percent purchased a pass at a Hy-Vee supermarket, 5% at City Hall, and 4% at The Merc Co-op.

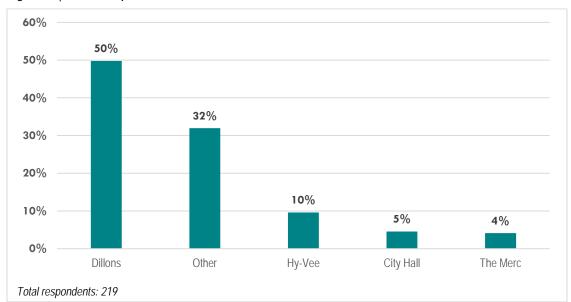


Figure 14 | Where Respondents Purchased Pass Products



CUSTOMER PERCEPTION

Survey respondents were asked a series of questions regarding their perception of CS service features (Figure 15). The results indicate that on average, current riders are highly satisfied with CS's current service conditions. Most critically, respondents rated service dependability an average of 3.89 out of five points, with five representing "strongly agree" and one representing "strongly disagree." Respondents agree on average that transit fares are reasonable (4.18 average), staff is professional and courteous (4.20), buses are comfortable and well-kept (4.20), and that routes get riders where the need to go (4.10). Respondents are less satisfied with the systems' user interface, but still agree to a lesser extent that maps and schedules are easy to understand (3.92), schedules meet their travel needs (3.63), and that the website is easy to understand (3.69).

Buses are comfortable and well-4.20 kept Staff is professional and courteous 4.20 Fares are reasonable 4.18 4.10 Routes get me where I need to go Maps and schedules are easy to 3.92 understand Service is dependable 3.89 3.69 Website is easy to understand Schedules meet my travel needs 3.63 2.00 2.50 3.00 3.50 4.00 4.50 5.00

Neutral

Disagree

Figure 15 | Respondent Perception of Service Features



Total respondents: 867

Agree

Strongly

Agree

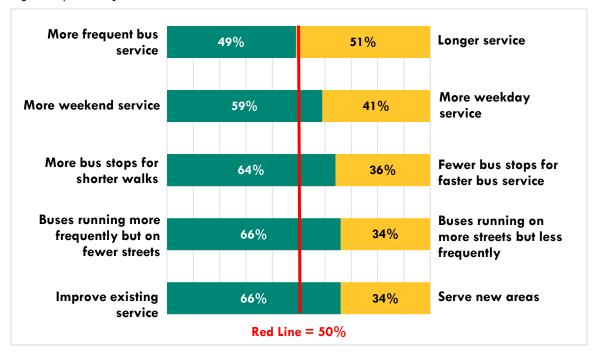
Lawrence-Douglas County MPO

CUSTOMER PREFERENCES

Survey respondents were asked to select their preference between two future theoretical service improvements. Preference questions focused on service frequency, span of service, preferred destinations, and coverage patterns.

Respondents are interested in increasing access by adding more bus stops, and are evenly split between increasing the frequency of bus service and extending the system's service hours. Thirtyfour percent of respondents expressed interest in expanding to serve new areas, while 66% are in favor of improving the system's existing services.

Figure 16 | Summary of Customer Preferences





Frequency vs. Service Span

Respondents are evenly split between preferring longer service hours compared to increased frequency (Figure 17). The preference for longer service hours was reflected in the written comments submitted along with the survey. Additional evening service, as well as service on Sunday, is one of the most requested service improvements by respondents in Lawrence.

60% 51% 49% **50**% 40% 30% 20% 10% 0% Longer service hours More frequent bus service

Figure 17 | Respondent Preference for Frequency vs. Service Span

Weekday vs. Weekend Service

Respondents prefer increased weekend service over additional weekday service by a 18-point margin (Figure 18). Nearly 60 respondents submitted written comments in support of Sunday service. Many of these respondents also simultaneously requested additional weekday service, suggesting that there is strong support for increased service span and frequency overall.

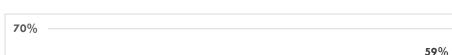
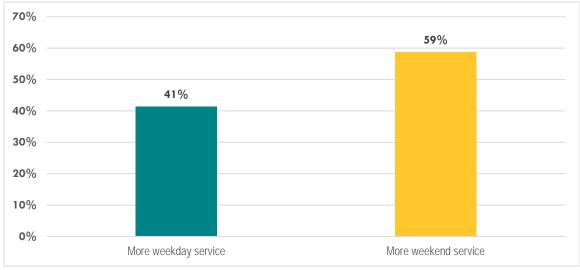


Figure 18 | Respondent Preference for Expanded Weekday vs. Weekend Service





Improved Existing Service vs. New Service Areas

Respondents prefer improving existing service over expanding the service area by a wide margin (Figure 19). Though the online survey was open to the entire Lawrence community, a large percentage of respondents were current transit users. Therefore, it is possible that support for expanding service areas is greater among potential riders in the broader Lawrence region.

70% 66% 60% **50**% 40% 34% 30% 20% 10% 0%

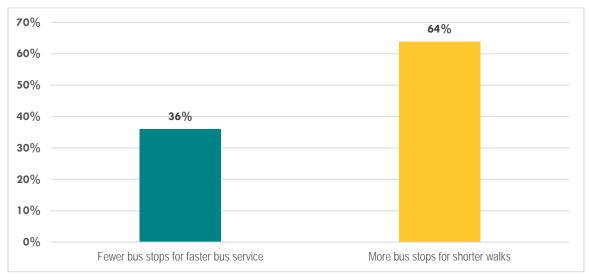
Figure 19 | Respondent Preference for Improved Existing Service vs. Serving New Areas

Fewer Bus Stops vs. More Bus Stops

Respondents prefer to add more bus stops along routes to reduce walk times to bus stops (Figure 20). Several comments expressed frustration towards bus drivers that are not willing to stop at four-way intersections to allow riders to board.



Improve existing service



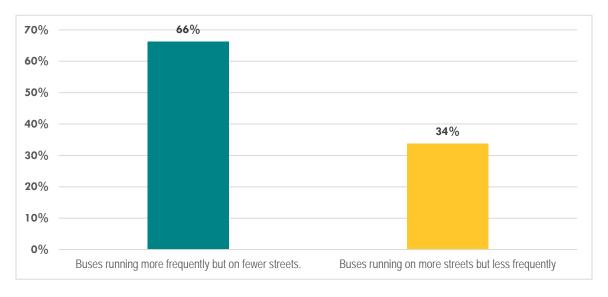


Serve new areas

Frequent Bus Operations vs. Less Frequent Bus Operations

Respondents value more frequent bus service on select streets over less frequent bus operations on a broader street network (Figure 21). Increased frequency to 15 or 30 minutes-especially during the morning and evening peak periods—is a strong theme within respondents' comments.

Figure 21 | Respondent Preference for Frequent Bus Operations vs. Less Frequent Bus Operations

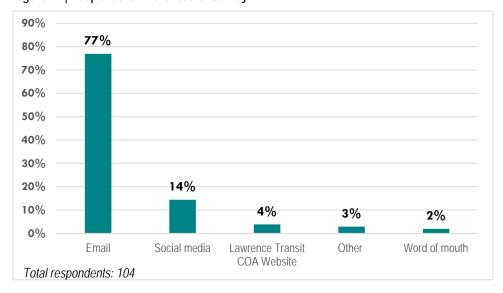


SURVEY OUTREACH AND WRITTEN COMMENTS

Survey Awareness

Online survey respondents were primarily made aware of the survey through email and social media networks. A significantly smaller percentage of respondents learned of the survey through the Lawrence Transit COA website (lawrencetransitstudy.com), other means (neighborhood associations), and word of mouth. This question was not included in the on-board survey.

Figure 22 | Respondent Awareness of Survey





Lawrence-Douglas County MPO

Expanded Service

Survey respondents who indicated that they do not use transit were given the opportunity to indicate where CS should expand its current service so that transit would be more useful. Survey respondents entered 21 suggestions for expanding current transit coverage. The three most requested locations for expanding local bus service were:

- Bob Billings Parkway and George Williams Way (6)
- Harvard Road (3)
- 6th Street and George Williams Way (2)

This question was not included in the on-board survey.

Additional Comments

The survey included an open-ended written comment form. Out of the 968 completed surveys, 240 included a written comment. While many riders discussed one specific topic, a number of the responses included comments and suggestions on a variety of topics. For this analysis, each discussed topic was assigned to broader categories to help identify recurring themes (Figure 23).

Adding Sunday service and increasing service spans were the most common comments. Within comments addressing service spans, increasing weeknight service was the most popular request. Increased service frequency was the third-most frequent. Increased frequency was requested on the following routes: Route 5, Route 6, Route 7, Route 9, Route 10, Route 11, Route 29, Route 36, and Route 38.

The majority of comments classified as information quality were complaints regarding lack of updates when route alignments are altered or re-routed, and the clarity and the functionality of CS's website. Several users also requested the ability to receive automatic texts or email updates when service or scheduling complications arise.

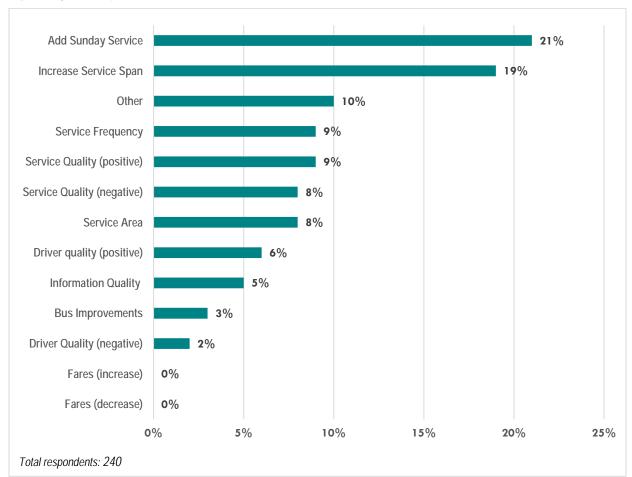
Service quality comments were split evenly between positive (9%) and negative (8%). Several negative service comments relate to buses routinely arriving late, or bus drivers not stopping at designated bus stops.

Based on the comments received, fares are not a major concern; only two comments addressed fare increases or fare deductions.

Comments classified as "Other" address a broad range of pertinent responses, including improving bus stop infrastructure, adjusting route timing, and raising driver wages. Additionally, several comments expressed displeasure with the proposed location for the multimodal transportation hub on KU's campus. However, this category also includes numerous comments that are irrelevant to the current COA.



Figure 23 | Summary of Written Comments





Appendix A

Figure 24 | On-Board Survey Instrument - English

*	\$ 0	Please help the City of transit server of the city of transit server of the city of the ci	of Lawrence vice by comp	and Uni leting the	he survey below vey on another	as improv v.	re	Sequer	nce Nur	nber:
1.	How often do you ride the bear Almost every day Several times per week A few times per month		Vheels)?	9. Wha	at is your age? 3 or under	□ 14-17 □ 36-64		☐ 18-2 ☐ 65 0		
2.	Including this bus, which ro way trip?	utes will you use to complete	e this <u>one</u>	□ F	tudent	☐ Part-Tii	me 1	☐ Une	mploye er	d
3.	Where did you begin this on Home Work School Please provide an address or de	ne-way trip? Store or Shopping Cen Hospital or Clinic Other escription of where this place is lo	nter	Le \$! 12. Which Lawn 	It is your approxities than \$10,000 50,000-\$74,999 ch of the following rence and/or at it do not own a car	\$10,00 \$75,00 ng describe (U? (Select	0-\$29,999 0 or more the reaso t all that a	□ \$30	,000-\$4	9,999
4.	Where is your final destinat Home Work School	Work		 	ly car is temporari cannot drive for le prefer to spend tir arking is not avail aking the bus is m	egal or heal me on activi lable or is e	th reasons ities other xpensive a	than driv t my des	tination	
			ocated:		naintenance am doing my part other	for the envi				
5.	How did you pay for your far Cash Day Pass 10-Ride Punch Card	re today? Regular 🗆 Reduced 🗀 T-Lift	1 1	□ 18 □ 0 13. Bas e		for the envi	g the buse	s in Law llowing s	rence a stateme	nd/or at
	How did you pay for your far Cash Day Pass 10-Ride Punch Card	re today? Regular	1 1	13. Base KU, I Service Routes	am doing my part thered on your experi how strongly do y e is dependable s get mewhere I	for the envi ience riding you agree v	g the buse vith the fo	s in Law llowing s	rence a stateme	nd/or at ents? Strongly
	How did you pay for your far Cash	re today? Regular Reduced T-Lift Regular Reduced T-Lift Regular Reduced T-Lift Regular Reduced T-Lift Night Line (cash) duct, where did you buy it? Dillons Hy-Vee		Service Routes need to	am doing my part ther ed on your experi how strongly do y e is dependable s get me where I o go ules meet my needs	for the envi	g the buse vith the fo Disagree	s in Law	Agree	ents? Strongly Agree
6.	How did you pay for your far Cash	re today? Regular Reduced T-Lift Regular Reduced T-Lift Regular Reduced T-Lift Regular Reduced T-Lift Night Line (cash) duct, where did you buy it? Dillons Hy-Vee		Service Routes need to Schedi travel i Fares a Buses	am doing my part thered on your experi how strongly do y e is dependable s get me where I o go ules meet my	ience riding you agree v Strongly Disagree	g the buse vith the fo Disagree	s in Law llowing s	Agree	nd/or at ents? Strongly Agree
6.	How did you pay for your far Cash	re today? Regular	rip?	Service Routes need to Schedd travel of Fares a Buses and we Staff is and co	am doing my part other ed on your experi how strongly do y e is dependable s get me where I o go ules meet my needs are reasonable are comfortable ell-kept s professional ourteous	for the envi	g the buse with the fo	s in Law llowing s Neutral	Agree	ond/or atents? Strongly Agree
6. 7.	How did you pay for your far Cash	re today? Regular Reduced T-Lift Regular Reduced T-Lift Regular Reduced T-Lift Regular Reduced T-Lift Night Line (cash) duct, where did you buy it? Dillons Hy-Vee v would you have made this to Walk Bike Would not have made Other	rip?	Service Routes need to Schedd travel of Fares and we Staff is and co Maps a are eas	am doing my part other ed on your experi how strongly do y e is dependable s get me where I o go ules meet my needs are reasonable are comfortable ell-kept s professional	for the envi	g the buse with the fo	s in Law llowing s Neutral	Agree	ents? Strongly Agree
6. 7.	How did you pay for your far Cash	re today? Regular Reduced T-Lift Night Line (cash) duct, where did you buy it? Dillons Hy-Vee v would you have made this to Walk Bike Would not have made Other Female	rip? this trip	Service Routes need to Sched travel of Fares a Buses and we Staff is and co Maps a are eas Websit unders	am doing my part other ed on your experi how strongly do y e is dependable s get mewhere I o go ules meet my needs are reasonable are comfortable ell-kept s professional nurteous and schedules sy to understand te is easy to stand	ience riding you agree v Strongly Disagree	g the buse with the fo Disagree	Neutral	Agree	strongly Agree
6. 7.	How did you pay for your far Cash	re today? Regular	rip?	Service Routes need to Sched travel of Fares a Buses and we Staff is and co Maps a are eas Websit unders	am doing my part other ed on your experi how strongly do e is dependable s get mewhere I o go ules meet my needs are reasonable are comfortable ell-kept s professional ourteous and schedules sy to understand te is easy to stand	ience riding you agree v Strongly Disagree	g the buse with the fo	s in Law llowing s Neutral	Agree	ents? Strongly Agree
6. 7.	How did you pay for your far Cash	re today? Regular Reduced T-Lift Night Line (cash) duct, where did you buy it? Dillons Hy-Vee v would you have made this to Walk Bike Would not have made Other Female	rip? this trip	Service Routes need to Sched travel of Fares a Buses and we Staff is and co Maps a are eas Websit unders	am doing my part other ed on your experi how strongly do y e is dependable s get mewhere I o go ules meet my needs are reasonable are comfortable ell-kept s professional nurteous and schedules sy to understand te is easy to stand	for the envi	g the buse with the fo	s in Law llowing s Neutral	Agree	ents? Strongly Agree
6. 7.	How did you pay for your far Cash	re today? Regular Reduced T-Lift Night Line (cash) duct, where did you buy it? Dillons Hy-Vee v would you have made this to Walk Bike Would not have made Other Female your preference. Please chec	rip? this trip ck ONE box pe	Service Routes need to Schedi travel of Fares a Buses and we Staff is and co Maps a are eas Websit unders	am doing my part other ed on your experi how strongly do y e is dependable s get mewhere I o go ules meet my needs are reasonable are comfortable ell-kept sprofessional nuteous and schedules sy to understand te is easy to stand	for the envi	g the buse with the fo Disagree	s in Law llowing s Neutral	Agree	ents? Strongly Agree
6. 7.	How did you pay for your far Cash	re today? Regular Reduced T-Lift Regular Reduced T-Lift Regular Reduced T-Lift Regular Reduced T-Lift Reduced T-Lift Night Line (cash) duct, where did you buy it? Dillons Hy-Vee v would you have made this to Walk Bike Would not have made Other Female your preference. Please chec	rip? this trip ck ONE box pe	Service Routes need to Scheditravel of Fares a Buses and we Staff is and co Maps a are eas Websit unders	am doing my part other ed on your experi how strongly do y e is dependable s get mewhere I o go ules meet my needs are reasonable are comfortable elt-kept s professional uurteous and schedules sy to understand te is easy to stand hy? Longer service hy More weekend se	for the envi	g the buse g the buse with the fo Disagree	s in Law llowing s Neutral	Agree	ents? Strongly Agree



	mpleting the Tr nelp us continue to in ses will be kept strict	prove the service.	vey!	



Figure 25 | On-Board Survey Instrument - Spanish

		,	ransporte ρί ompletado	iblico re la misi		nte encuest In viaje			ence Num	
1.	¿Con qué frecuencia utiliza el auto Casi cada día Varias veces por semana Algunas veces al mes	bús (Lawrence Transit o KU Coasionalmente Esta es mi primera vez	-		uántos años tiene: 13 o menos 26-35	s? 14-17 36-64		☐ 18- ☐ 65 0		
2.	Incluyendo este autobús, ¿qué viaje? 1a Ruta: 2a Ruta:	·			uál es situación de Jornada completa Estudiante	☐ Media j ☐ Jubilad	0	☐ Otr		
3.	☐ Universidad o Escuela	☐ Centro comercial/tien☐ Hospital o Clínica☐ Otro		12. ¿0	cuál es el ingreso fa Menos de \$10,000 \$50,000-\$74,999 cuáles son las razone wrence y/o KU? (Se	\$10,000 \$75,000 s por las que)-\$29,999) o más utiliza el	\$30	0,000-\$49, e público e	
4.	☐ Trabajo ☐ Universidad o Escuela	o final de este viaje de ida Centro comercial/tien Hospital o Clínica Otro	a? nda		No dispongo de co Mi coche esta tem No puedo conducio Prefiero pasar el ti No hay donde esta Tomar el autobús e	che poralmente r por razone: empo en act cionar/esta es más econ	fuera de s s legales ividades cionar es	servicio o médica distintas caro	s a conduci	
	Por favor facilite una dirección o de:	scripcion de esta localizacio	n:		mantenimiento del Es más sostenible		nente			
5.	¿Qué modo de pago utilizó para ☐ Efectivo ☐ Reg ☐ Pase diario ☐ Reg ☐ Tarjeta de 10-Viajes ☐ Reg ☐ Tarjeta mensual ☐ Reg	ular Reducida T-Lifular Reducida ular Reducida T-Lif	ft	13. En	Otro base a su experienc wrence y/o KU, indiq guientes afirmacione	ia como pasa ue su nivel d	ajero del t			
	☐ Efectivo ☐ Reg ☐ Pase diario ☐ Reg ☐ Tarjeta de 10-Viajes ☐ Reg ☐ Tarjeta mensual ☐ Reg ☐ Tarjeta KU	ular Reducida T-Lif ular Reducida ular Reducida T-Lif ular Reducida T-Lif ular Ruta nocturna (efectiv	ft ft vo)	13. En La sig	i base a su experienc wrence y/o KU, indiq guientes afirmacione	ia como pasa ue su nivel d s:	ajero del t e acuerdo			
	☐ Efectivo ☐ Reg☐ Pase diario ☐ Reg☐ Tarjeta de 10-Viajes ☐ Reg☐ Tarjeta mensual ☐ Reg☐ Tarjeta KU Si usted compró una tarjeta mu☐ Ayuntamiento ☐ The Merc	ular Reducida T-Lif ular Reducida ular Reducida T-Lif ular Reducida T-Lif ular Ruta nocturna (efectiv	ft ft vo)	13. En	o base a su experienc wrence y/o KU, indiq guientes afirmacione de confiar en el o as me llevan donde	ia como pasa ue su nivel d s: Totalmente en desa-	ajero del t e acuerdo No está de	/desacue	rdo con la:	S Totalmente
6.	□ Efectivo Reg □ Pase diario Reg □ Tarjeta de 10-Viajes Reg □ Tarjeta mensual Reg □ Tarjeta KU Si usted compró una tarjeta mu □ Ayuntamiento □ The Merc □ Otro	ular	ft ft vo)	13. Err La sig Se pue servicio Las ruti necesit Los hor	o base a su experienc wrence y/o KU, indiq guientes afirmacione de confiar en el o as me llevan donde	ia como pasa ue su nivel d s: Totalmente en desa- cuerdo	No está de acuerdo	Neutral	De acuerdo	Totalmente de acuerdo
6.	□ Efectivo□ Reg □ Pase diario□ Reg □ Tarjeta de 10-Viajes□ Reg □ Tarjeta mensual□ Reg □ Tarjeta KU Si usted compró una tarjeta mu □ Ayuntamiento □ The Merc □ Otro Si esta ruta no existiera, ¿cómo	ular	ft ft vo)	Se pue servicio Las rutinecesio Los hor necesio Las tari	n base a su experienc wrence y/o KU, indiq guientes afirmacione de confiar en el o as me llevan donde to arios cubren mis dades de viaje ifas son razonables	ia como pass ue su nivel d s: Totalmente en desa- cuerdo	ajero del ti e acuerdo No está de acuerdo	Neutral	De acuerdo	Totalmente de acuerdo
6.	□ Efectivo□ Reg □ Pase diario□ Reg □ Tarjeta de 10-Viajes□ Reg □ Tarjeta mensual□ Reg □ Tarjeta KU Si usted compró una tarjeta mu □ Ayuntamiento □ The Merc □ Otro Si esta ruta no existiera, ¿cómo □ Otra ruta de autobús □ Manejar solo □ Alguien me llevaría en coche	ular	ft ft vo)	Se pue servicio Las ruti necesit Los hor necesio Las tari Los aut y bien r	n base a su experience wrence y/o KU, indiquentes afirmacione de confiar en el o as me llevan donde to arrios cubren mis dades de viaje ifas son razonables obuses son cómodos mantenidos	ia como pasa ue su nivel d s: Totalmente en desa- cuerdo	No está de acuerdo	Neutral	De acuerdo	Totalmente de acuerdo
 7. 	□ Efectivo□ Reg □ Pase diario□ Reg □ Tarjeta de 10-Viajes□ Reg □ Tarjeta mensual□ Reg □ Tarjeta KU Si usted compró una tarjeta mu □ Ayuntamiento □ The Merc □ Otro Si esta ruta no existiera, ¿cómo □ Otra ruta de autobús □ Manejar solo □ Alguien me llevaría en coche	ular	ft ft vo)	Se pue servicio Las rutinecesit Los hor necesit Las tari Los aut y bien r	base a su experience y/o KU, indiquientes afirmacione de confiar en el o as me llevan donde to arios cubren mis dades de viaje fas son razonables obuses son cómodos	ia como pasa: ue su nivel d s: Totalmente en desa- cuerdo	ajero del t e acuerdo No está de acuerdo	Neutral	De acuerdo	Totalmente de acuerdo
 7. 	□ Efectivo□ Reg □ Pase diario□ Reg □ Tarjeta de 10-Viajes□ Reg □ Tarjeta mensual□ Reg □ Tarjeta KU Si usted compró una tarjeta mu □ Ayuntamiento □ The Merc □ Otro Si esta ruta no existiera, ¿cómo □ Otra ruta de autobús □ Manejar solo □ Alguien me llevaría en coche □ Taxi/Uber ¿Cuál es tu género?	ular	ft ft vo)	Se pue servicio Las rutinecesio Los horinecesio Las tari Los autineces un pien ri El persione ma fáciles	base a su experience wrence y/o KU, indiquientes afirmacione de confiar en el o as me llevan donde o arios cubren mis dades de viaje ifas son razonables obuses son cómodos nantenidos onal es professional	ia como pasa ue su nivel d s: Totalmente en desa- cuerdo	ajero del t e acuerdo No está de acuerdo	Neutral	De acuerdo	Totalmente de acuerdo
 7. 8. 	□ Efectivo□ Reg □ Pase diario□ Reg □ Tarjeta de 10-Viajes□ Reg □ Tarjeta mensual□ Reg □ Tarjeta KU Si usted compró una tarjeta mu □ Ayuntamiento □ The Merc □ Otro Si esta ruta no existiera, ¿cómo □ Otra ruta de autobús □ Manejar solo □ Alguien me llevaría en coche □ Taxi/Uber ¿Cuál es tu género?	ular	ft ft (ro) fe? iaje?	Se pue servicio Las rut: necesió Las rut: necesió Las tari Los aut y bien r El pers Los ma fáciles La web	de confiar en el o o arios cubren mis dades de viaje (das son razonables obuses son cómodos mantenidos onal es professional pas y horarios son de entender es fácil de navegar	ia como passi ue su nivel d s: Totalmente en desa- cuerdo	ajero del t e acuerdo No está de acuerdo	Neutral	De acuerdo	Totalmente de acuerdo
 7. 8. 	□ Efectivo□ Reg □ Pase diario□ Reg □ Tarjeta de 10-Viajes□ Reg □ Tarjeta mensual□ Reg □ Tarjeta KU Si usted compró una tarjeta mu □ Ayuntamiento □ The Merc □ Otro□ Si esta ruta no existiera, ¿cómo □ Otra ruta de autobús □ Manejar solo □ Alguien me llevaría en coche □ Taxi/Uber ¿Cuál es tu género? □ Hombre La siguiente pregunta es en relativa de la coche la siguiente pregunta es en relativa de la coche la siguiente pregunta es en relativa de la coche la siguiente pregunta es en relativa de la coche la siguiente pregunta es en relativa de la coche la coche la siguiente pregunta es en relativa de la coche l	ular	ft ft ft ft fo) fo? iaje? Por favor ma	Se pue servicio Las rutinecesio Las tari Los aut y bien r El pers Los ma fáciles La web	de confiar en el o a a su experience y/o KU, indiquientes afirmacione de confiar en el o a as me llevan donde to arrios cubren mis dades de viaje fas son razonables obuses son cómodos mantenidos onal es professional pas y horarios son de entender es fácil de navegar ar respuesta por lín Más cobertura ho	ia como passi ue su nivel d s: Totalmente en desa- cuerdo	ajero del t e acuerdo No está de acuerdo	Neutral	De acuerdo	Totalmente de acuerdo
 7. 8. 	□ Efectivo	ular	ft ft ft vo) 6? iaje? Por favor ma	Se pue servicio Las rutinecesit Los hor necesit Los auti y bien r El pers Los ma fáciles La web	de confiar en el company de c	ia como passi ue su nivel d s: Totalmente en desa- cuerdo	ajero del ti e acuerdo No está de acuerdo	Neutral	De acuerdo	Totalmente de acuerdo
 7. 8. 	□ Efectivo	ular	rit fit vo) vo) vo? iaje? Por favor ma □ □ □ □ □ □	Se pue servicio Las rut necesit Los hor necesit Los dut y bien r El pers Los ma fáciles La web	de confiar en el o a as me llevan donde so marios cubren mis dades de viaje ifas son razonables obuses son cómodos mantenidos onal es professional pas y horarios son de entender es fácil de navegar la respuesta por lín Más cobertura ho Más servicios en Menos paradas o	ia como passi ue su nivel d s: Totalmente en desa- cuerdo	ajero del ti e acuerdo No está de acuerdo D D D D D D D D D D D D D	Neutral	De acuerdo	Totalmente de acuerdo
 7. 8. 	□ Efectivo	ular	ft ft ft vo) 6? iaje? Por favor ma	Se pue servicio Las rut: necesió Los hor necesió Las tari Los aut y bien r El pers Los ma fáciles La web	de confiar en el company de c	ia como passi ue su nivel d s: Totalmente en desa- cuerdo	najero del ti e acuerdo No está de acuerdo D D D D D D D D D D D D D	Neutral	De acuerdo	Totalments de acuerdo



Muchas gra	Su cont	tenido nos ayu	esta de Pasaje dará a mejorar el rictamente confic	te Público!	

