BLUE LAKETRANSIT PLANNING SCENARIOS

INITIAL ANALYSIS OF POSSIBLE BLUE LAKE RANCHERIA ROUTE ALTERNATIVES AND MOBILITY ON DEMAND OPTIONS

INTRODUCTION

- 2014 FTA Planning Grant provided funding
- Study goal: develop practical transit routes that include service to Fieldbrook, Glendale, and Korbel.
- Rancheria and HCAOG partnership







EXISTING CONDITIONS

- Headways & service hours
- 800-1000 monthly BLRTS riders
- 10% farebox for FY 18/19
- \$90,000-\$140,000 Operating Cost (labor and fuel spikes)
- \$13,000 of the City of Blue Lake's LTF funds currently used on Streets
- No subsidies from Arcata or County
- No GTFS data
- Blue Lake inner-city stops on outbound only
- Valley West Stops on return only



BLUE LAKE NEEDS & OPPORTUNITIES

Needs

- No service to Fieldbrook and Korbel
- Transportation to transfer stops needed
 - Existing: Arcata Transit Center
 - Potential:
 - McKinleyville Airport
 - McKinleyville High School
 - McKinleyville Shopping Center
- 50% decreased usage of transit since 2015 (1658 monthly riders 2015, 844 for March 2019, 898 June 2019
- BLRTS now provides service to Glendale

Opportunities

- 50% decreased usage of transit since 2015 (1658 monthly riders 2015, 844 for March 2019, 898 June 2019
- Willow Creek stop in Blue Lake recommended in HCAOGTDP (although fares are higher for WC route)
- BLRTS now provides service to Glendale

BLUE LAKE SURVEY RESULTS

Question 3 - In what Zip Code is your home located:

Answer Options	Response Percent	Response Count
95525 Blue Lake	100.0%	47
95519 Fieldbrook	0.0%	0
95519 Glendale	0.0%	0
95550 Korbel	0.0%	0
95519 McKinleyville	0.0%	0
Other (please specify)	0.0%	0
	answered question	47
	skipped question	0

Question 7 - For Monday through Friday Service: Where would you begin your trip?

Answer Options	Response Percent	Response Count	
Blue Lake	70.2%	33	
Fieldbrook Road	4.3%	2	
Glendale Drive	0.0%	0	
Korbel	0.0%	0	
McKinleyville	0.0%	0	
Will not use on Monday through Friday	17.0%	8	
Other (please specify)	8.5%	4	
	answered question	47	
	skipped question	0	

Other responses:

x2 No answer

Blue Lake / Fieldbrook

on my bicycle

BLUE LAKE SURVEY RESULTS

Question 8 - For Monday through Friday Service: What would be your destination point?

Answer Options	Response Percent	Response Count
Arcata	48.9%	23
Blue Lake	2.1%	1
Eureka	25.5%	12
Femdale	0.0%	0
Fieldbrook Road	2.1%	1
Fortuna	0.0%	0
Glendale Drive	4.3%	2
Korbel	0.0%	0
McKinleyville	19.1%	9
Rio Dell	0.0%	0
Trinidad	0.0%	0
College of the Redwoods	2.1%	1
Humboldt State University	6.4%	3
Will not use service on Monday through Friday	19.1%	9
Other (please specify)	14.9%	7
	answered question	47
	skipped question	0
Other responses:		
Murray and Central		

x2 no answer

Valley West, Transit Center

Railroad & Raymar

Murphys Market - work

on my bicycle

FIELDBROOK/MCKINLEYVILLE SURVEY RESULTS

Question 3	- In	what	Zip	Code	is	your	home	located:
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Answer Options	Response Percent	Response Count
95525 Blue Lake	0.0%	0
95519 Fieldbrook	55.6%	40
95519 Glendale	13.9%	10
95550 Korbel	0.0%	0
95519 McKinleyville	30.6%	22
Other (please specify)	0.0%	0
	answered question	72
	skipped question	0

Question 7 - For Monday thr	ough Friday	Service: Where	would you begin
your trip?			

your arp:				
Answer Options	Response Percent	Response Count		
Blue Lake	0.0%	0		
Fieldbrook Road	38.9%	28		
Glendale Drive	6.9%	5		
Korbel	0.0%	0		
McKinleyville	5.6%	4		
Will not use on Monday through Friday	31.9%	23		
Other (please specify)	16.7%	12		
	answered question	72		
	skipped question	0		
Other responses:				
Railroad Ave and Central Murray Rd and Central				
Near Market (Fieldbrook) / Firestation				
x2 Fieldbrook Store				
XZ FIEIUDIOUK SIDIE				

Blue Lake/Glendale/Hilltop

Murray Road in Fieldbrook Glendale and Swanson Glendale/Murphy's Market Murphy's Market near Rock Pit Road

Eureka

Question 8 - For Monday through Friday Service:What would be your destination point?

Answer Options	Response Percent	Response Count
Arcata	36.1%	26
Blue Lake	4.2%	3
Eureka	33.3%	24
Ferndale	0.0%	0
Fieldbrook Road	0.0%	0
Fortuna	1.4%	1
Glendale Drive	1.4%	1
Korbel	0.0%	0
McKinleyville	23.6%	17
Rio Dell	0.0%	0
Trinidad	0.0%	0
College of the Redwoods	0.0%	0
Humboldt State University	5.6%	4
Will not use service on Monday through Friday	33.3%	24
Other (please specify)	12.5%	9
	answered question	72
	skipped question	0
Other responses:		
Arcata HSU, Mad Rvr Hospital		
Arcata Plaza and south Shopping Center		
Aquatic Center		
Arcata Transit Center, Bayshore Mall		
B Lake Post Office, or Casino Hotel		
It would vary.		
I do not want public transit anywhere near my ne	ighborhood.	
Costco/Winco		
Dows Prairie, Morris and Mck Middle Schools		

KORBEL SURVEY RESULTS

Question 3 - In what Zip Code is your ho	ome located:		Question 7 - For Monday through Frida your trip?	ay Service: Where would	d you begin
Answer Options	Response Percent	Response Count	Answer Options	Response Percent	Response Count
95525 Blue Lake	0.0%	0	Blue Lake	33.3%	1
95519 Fieldbrook	0.0%	0	Fieldbrook Road	0.0%	0
95519 Glendale	0.0%	0	Glendale Drive	0.0%	0
95550 Korbel	100.0%	3	Korbel	66.7%	2
95519 McKinleyville	0.0%	0	McKinleyville	0.0%	0
Other (please specify)	0.0%	0	Will not use on Monday through Friday	0.0%	0
Calc. (p.cacc specify)	answered question	ž	Other (please specify)	0.0%	0
	skipped question	0		answered question	3
	skipped question	U		skipped question	0

KORBEL SURVEY RESULTS

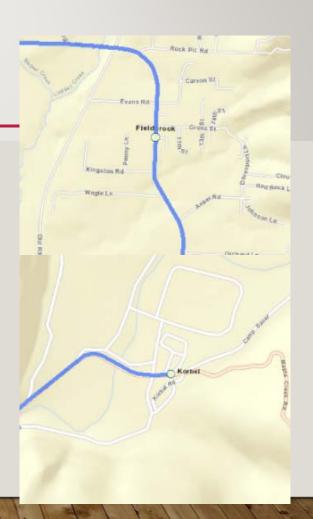
Question 8 - For Monday through Friday Service: What would be your destination point?

Answer Options	Response Percent	Response Count
Arcata	33.3%	1
Blue Lake	0.0%	0
Eureka	0.0%	0
Ferndale	0.0%	0
Fieldbrook Road	0.0%	0
Fortuna	0.0%	0
Glendale Drive	33.3%	1
Korbel	0.0%	0
McKinleyville	0.0%	0
Rio Dell	0.0%	0
Trinidad	0.0%	0
College of the Redwoods	0.0%	0
Humboldt State University	66.7%	2
Will not use service on Monday through Friday	0.0%	0
Other (please specify)	33.3%	1
	answered question	3
	skipped question	0
Other responses:		
E & O at Bayal Cold		

E&O at Royal Gold.

LAND USE AND SOCIOECONOMIC CHARACTERISTICS

	Blue Lake	Fieldbrook	Korbel	McKinleyville
Population of City and surrounding areas	1716	586	48	12908
Population with 3/4 mile of transit stops	1394	586	48	11654
,				
Percentage in Poverty*	19.86%	18.94%	18.87%	16.00%
Percentage of senior				
population >65*	23.39%	21.33%	7.55%	12.68%
Carless Households*	2.86%	2.91%	0.00%	3.76%



TBEST USES

TBEST Pre-Validated Weekday Ridership

- Promising pre-validated results in delivered model
- Analyzes feasibility of potential route alternatives in scenario planning
- Strengthens data-based Unmet Transit Needs (UTN) process
- User-friendly
- Setup for Del Norte and Trinity Counties (no parcel data, but has SE data)

	Estimate	Actual
ETS	999	803
Willow Creek	27	48
A&MRTS	441	833
SHI	103	86
BLRTS	95	53
KT-NET	7	19
Tish-Non	15	13
RTS	2,291	1,920

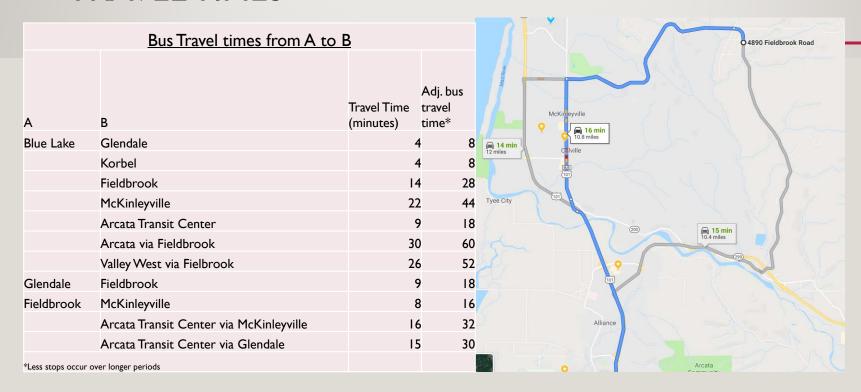
SEEKING ANSWERS & FEEDBACK

- Keep in mind everything is on the table at this point
- Is Korbel viable?
- With Fieldbrook trip destinations, is BL a good fit for offering this service?
- What is a maximum acceptable trip time?
- When does a service become more of a lifeline option vs. a viable automobile alternative?
- Should a Fieldbrook/McKinleyville detour be on the outbound or return trip (think travel time to Arcata)
- Likes and dislikes about each scenario?
- Do you have a preference or recommendation?

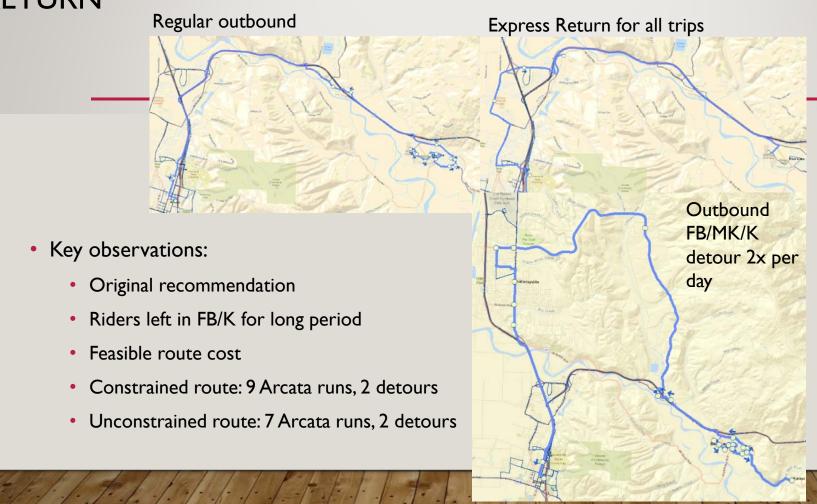
SCENARIO INTRODUCTIONS

- Fieldbrook, McKinleyville, Korbel options (County unincorporated areas)
 - Express return vs. full return
- Constrained vs. unconstrained (revenue neutral vs. cost increase)
- Blue Lake to Arcata trips
- Potential coordination with HTA's Willow Creek
- Fieldbrook and Korbel Lifeline service
- Mobility on Demand (MoD)
- All scenarios, BL providing County service

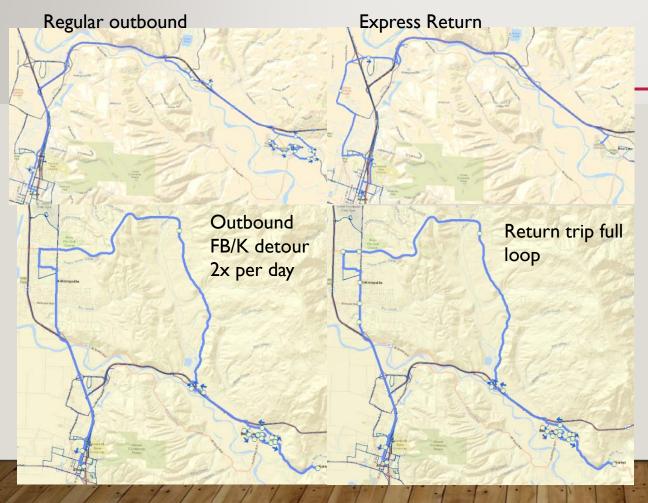
TRAVEL TIMES



SCENARIO 2 & 2.1:FIELDBROOK, MCKINLEYVILLE, KORBEL, EXPRESS RETURN

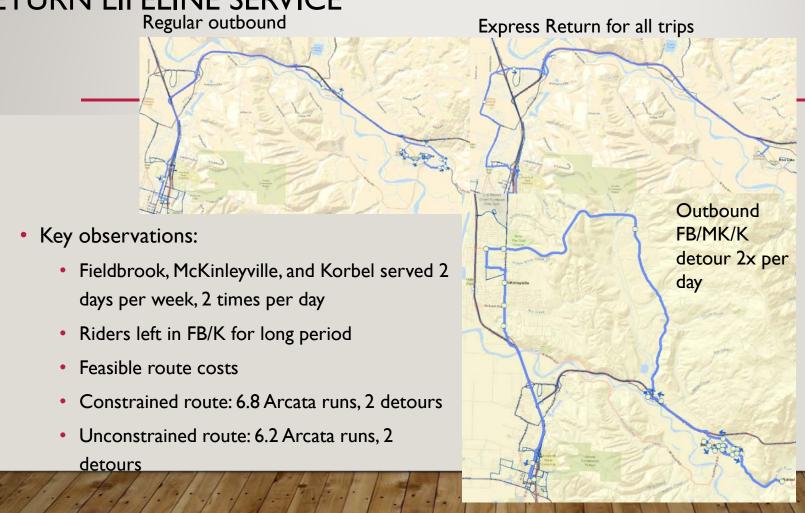


SCENARIO 3 & 3.1: FIELDBROOK, KORBEL, MCKINLEYVILLE, WITH FULL LOOP RETURN

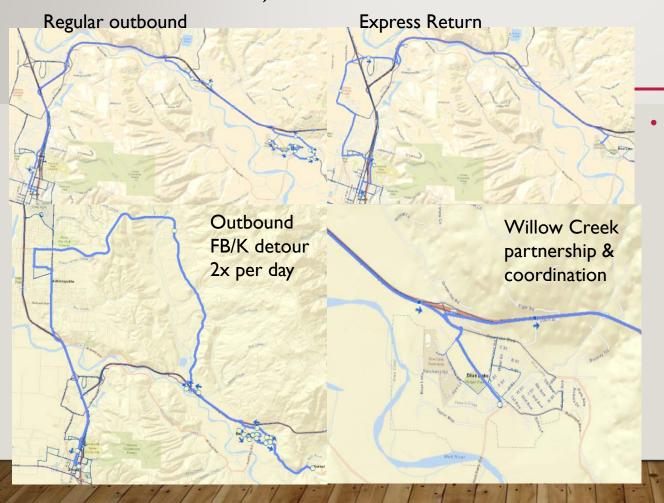


- Key observations:
 - 75 minute ride time on outbound and return detours
 - No riders left "stranded"
 - 7 daily runs to Arcata w/ 2 detour loops
 = 40% cost increase
 - Constrained version not feasible?
 - Constrained scenario has only 4 express trips to Arcata

SCENARIO 4 & 4. I:FIELDBROOK, MCKINLEYVILLE, KORBEL, EXPRESS RETURN LIFELINE SERVICE



SCENARIO 5 & 5.1: PARTNERING: FIELDBROOK, KORBEL, MCKINLEYVILLE, EXPRESS RETURN, WILLOW CREEK COORDINATION



- Key observations:
 - 20% Cost reduction
 - Still allows for 8 trips to Arcata from BL
 - 75 minute ride time on outbound and return detours
 - Riders left for long period in FB/K
 - Partnership

SCENARIO 6, 6.1, 6.2:MICKINLEYVILLE FULL SERVICE



- Key observations:
 - There are three scenarios here: A long zig-zag through McKinleyville on the inbound and outbound trip, a shorter zig-zag in McKinleyville only on the outbound trip, and a no-Arcata scenario (not pictured)
 - Trip times could be reduced to 90 minutes one-way, and likely 80 minutes for a no-Arcata scenario
 - This would need Willow Creek partnership
 - Note the amount of times BL travelers can reach Arcata

MOD OPTIONS

Zone	I	2	3	4
Drive Shed Minutes	5	10	15	20
Drive Shed MoD				
Minutes	7.5	15	22.5	30
Population	1388	4885	34833	39956
Seniors Pop. 65+	23.20%	18.90%	13.20%	14.10%
Pop. In Poverty	8.10%	14.90%	20.50%	20.50%
Zero Vehicle HH	2.90%	6.10%	6.80%	6.30%
Jobs	4.35	2933	13636.00	15170.00

