



Ridership & Costs

Ridership

- Based on Future Year 2035 Population & Employment Forecasts
- “Travel times” are between New Carrollton and Bethesda
- “Boardings” are the number of riders who would use the Purple Line on a typical weekday

Capital Costs

- Estimates in 2007 Dollars; subject to inflation to the time when a project is implemented
- Includes costs to design, manage and construct facilities, acquire right-of-way, and purchase equipment including transit vehicles

Operating and Maintenance (O&M) Costs

- Estimates in 2007 Dollars; subject to inflation to the time when a project starts operating
- Includes costs to operate transit services and maintain the vehicles, facilities, and equipment
- Accounts for adjustments to local bus services



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Purple Line Alternatives Preliminary Travel Demand Forecasts & Cost Estimates				
Alternative	End to End Peak Period Travel Time (minutes)	Ridership (Daily Boardings)	Capital Costs (Millions -2007\$)	Operating & Maintenance Costs (Millions -2007\$)
Alternative 2: TSM	108	N/A	\$105	\$8
BRT				
Alternative 3: Low Investment BRT	73	29,000 - 35000	\$450 - 520	\$9
Alternative 4: Medium Investment BRT	64	38,000 - 41000	\$650 - 750	\$9
Alternative 5: High Investment BRT	57	42,000 - 45000	\$1,170 - 1,340	\$8
LRT				
Alternative 6: Low Investment LRT	59	38,000 - 41,000	\$1,160 - 1,330	\$20
Alternative 7: Medium Investment LRT	52	42,000 - 45,000	\$1,170 - 1,350	\$18
Alternative 8: High Investment LRT	46	44,000 - 47,000	\$1,580 - 1,790	\$17

* Preliminary estimates; subject to change based on possible refinements to the alternatives.

- The ridership forecast levels compare well with similar projects being implemented around the US.

Travel Times

- The Purple Line will save time for many travelers along the corridor.

Estimated 2030 Travel Times (in minutes) between Stations by Alternative

Station-to-Station	TSM	Low BRT	Med BRT	High BRT	Low LRT	Med LRT	High LRT
Bethesda - College Park	54	52	49	43	44	38	34
Bethesda - Riverdale Park	58	56	53	46	48	42	37
Bethesda - Silver Spring	18	18	17	16	11	9	9
Bethesda - Takoma/Langley	30	33	31	28	25	21	20
East Silver Spring - College Park	38	34	32	25	30	29	25
East Silver Spring - Riverdale Park	40	38	36	28	34	33	28
East Silver Spring - Silver Spring	8	6	5	4	5	4	4
East Silver Spring - Takoma/Langley	13	16	15	14	11	12	12
New Carrollton - College Park	15	18	17	14	16	14	12
New Carrollton - Riverdale Park	14	14	15	11	12	10	9
New Carrollton - Silver Spring	53	52	50	41	48	43	37
New Carrollton - Takoma/Langley	41	36	33	29	34	31	26
Silver Spring - College Park	44	34	32	29	33	29	25
Silver Spring - Riverdale Park	46	42	36	32	36	33	28
Silver Spring - Takoma/Langley	27	19	15	14	14	12	12
Takoma/Langley - College Park	29	20	19	15	18	18	15
Takoma/Langley - Riverdale Park	28	24	23	19	24	22	18
Takoma/Langley - Silver Spring	27	20	15	14	18	14	13

* Preliminary estimates; subject to change based on possible refinements to the alternatives.

AM Peak Transit Travel Times (in minutes) Between Sample Trip Ends

Trip Origins-Trip Ends	2007	Year 2030					
		NoBuild	TSM	Low BRT	High BRT	Low LRT	High LRT
Takoma Park (Ethan Allen Avenue & Philadelphia Avenue)							
to Landover (Professional Place)	67	88	86	77	73	76	71
to NIH (Wisconsin Avenue & Jones Bridge Road)	54	57	57	47	52	50	45
to Rockville (Adventist HealthCare, Research Boulevard)	79	86	86	86	83	80	76
to IRS (Elin Road, Lanham)	39	59	59	54	50	53	48
Takoma Langley Transit Center							
to Landover (Professional Place)	76	114	66	57	53	56	52
to NIH (Wisconsin Avenue & Jones Bridge Road)	48	72	65	27	31	29	24
to Rockville (Adventist HealthCare, Research Boulevard)	79	86	86	65	62	60	56
to Bethesda (Lockheed Martin, Rockledge Drive)	70	105	96	67	62	60	55
to IRS (Elin Road, Lanham)	54	74	43	34	30	33	28
Riverdale Park (Queensbury Road & Taylor Road)							
to Landover (Professional Place)	37	56	51	48	47	48	46
to NIH (Wisconsin Avenue & Jones Bridge Road)	77	116	115	72	69	68	61
to Rockville (Adventist HealthCare, Research Boulevard)	126	189	146	112	99	98	91
to Bethesda (Lockheed Martin, Rockledge Drive)	100	150	145	112	99	98	91
to IRS (Elin Road, Lanham)	20	30	28	25	24	25	23
North Chevy Chase (Kensington Parkway & Kenilworth Driveway)							
to Landover (Professional Place)	90	96	96	83	84	89	80
to Metro Center	35	40	40	31	40	38	37
to Rockville (Adventist HealthCare, Research Boulevard)	50	60	60	50	60	56	54
to Bethesda (Lockheed Martin, Rockledge Drive)	45	57	57	44	57	56	54
to IRS (Elin Road, Lanham)	73	78	78	61	61	66	57
Riverdale Heights (Sheridan Street & 63rd Avenue)							
to Metro Center	48	65	56	54	55	54	54
to NIH (Wisconsin Avenue & Jones Bridge Road)	75	93	93	74	71	71	62
to Rockville (Adventist HealthCare, Research Boulevard)	103	125	125	103	100	100	91
to Bethesda (Lockheed Martin, Rockledge Drive)	88	109	109	109	99	100	91
to IRS (Elin Road, Lanham)	14	21	20	18	19	18	18
Silver Spring (Sundale Drive & East West Highway)							
to Landover (Professional Place)	94	98	98	86	77	83	75
to Rockville (Adventist HealthCare, Research Boulevard)	56	69	69	70	69	65	62
to IRS (Elin Road, Lanham)	94	98	78	63	54	60	52

* Preliminary estimates; subject to change based on possible refinements to the alternatives.
Medium investment alternative times are approximately mid-way between high and low times for a given mode.

- It will also provide travel time savings for transit users throughout the area.