

AT LEAST 450 NEW TEACHERS NEEDED TO MEET NEW MATH REQUIREMENTS OLYMPIA, WA – January 25, 2008

The Professional Educator Standards Board (PESB) asked local school districts to estimate the number of additional math teachers they will need to hire when the State Board of Education raises the current graduation requirement from two credits of mathematics to three. With 251 of the 295 reporting, districts estimate needing roughly 450 additional full-time equivalent (FTE) math teachers to teach added classes. This estimate does not include current attrition and mobility rates of math teachers, however, so the overall need for math teachers would likely be even higher.

In a 2007 OSPI report entitled “Educator Supply and Demand”, districts reported that they had 551 vacancies for mathematics teachers. When asked their perceived difficulty in hiring teachers in various subject areas, district administrators rated mathematics as a “considerable shortage” area, ranking second only to special education among all subject areas.

Raising requirements for new teachers, as well as for students, may also add to the challenge of ensuring an adequate supply of qualified math teachers. In 2007, the PESB adopted new, more rigorous and relevant subject knowledge standards for beginning teachers; including far greater rigor in math for elementary, middle and secondary level teachers. “This is great for our students, but will also likely require greater academic support for our future teachers to encourage and ensure their success in meeting these tougher standards,” commented PESB Chair Jill Van Glubt.

“Our purpose in conducting this survey is not to discourage, but to try to quantify and bring attention to the challenge before us,” said PESB Executive Director Jennifer Wallace. “Washington State needs a comprehensive educator recruitment strategy that involves K-12 stakeholders, higher education and the private sector.”

The picture of the pipeline is a complicated one. The PESB surveyed Washington’s 21 higher education teacher preparation programs, and they reported that currently, although there are 307 potential math teachers enrolled in teacher preparation programs, the capacity to enroll more is nearly five times that. But the need for math teachers will not be met by our colleges of education alone. State policymakers and local school districts will need to pursue greater retooling of existing teachers and better retaining those in service, as well as increased incentives for entering the profession.

In November 2006, The PESB and State Board of Education, in collaboration with OSPI, released a Joint Math Action Plan that included strategies for improving recruitment and retention. Last year the legislature provided over \$2 million for new scholarship programs being administered by the PESB that support new types of recruitment strategies, including a “retooling” scholarship to allow existing teachers in non-shortage areas to gain credentials in shortage areas, like math; a new program and scholarships that strengthen the pipeline for paraeducators to gain their degree and certification; and a new program aimed at encouraging low-income minority high school students to pursue college and a teaching career. But additional strategies and increased efforts will be required to meet the challenge. At least two bills currently before the legislature seek to get a clearer picture of the educator pipeline and to establish a broader coalition and statewide plan to address recruitment.

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**TOTAL ESTIMATED NEW MATH TEACHERS TO MEET NEW THREE YEARS OF MATH GRADUATION
REQUIREMENT BY ESD**

ESD	# TEACHERS
101	41.1 – 43.17
105	27.8 – 28.8
112	35.13 – 35.63
113	35.7 – 40.5
114	24.6
121	154.77 – 159.27
123	43.7 – 43.9
171	22.11 – 23.61
189	50 - 55

**TOTAL = 434.91 – 454.48 FTE BASED ON INFORMATION AVAILABLE FROM 251 (85%) DISTRICTS AS OF
1/23/08**

**ESTIMATED NEW MATH TEACHERS TO MEET NEW THREE YEARS OF MATH GRADUATION
REQUIREMENT
1/23/08**

ESD	DISTRICT	# TEACHERS	ESD	DISTRICT	# TEACHERS
ESD 101	Almira	0	ESD 113 con't.	White Pass	1.0 – 1.5
	Benge	0		Willapa	1.5
	Central Valley			Winlock	1.0
	Cheney	1.5 – 2.0		Wishkah	1.0
	Chewelah	.5		Yelm	2.0
	Colfax	.4	ESD 114	Bremerton	2.0
	Colton			Brinnon	0
	Columbia	0		Cape Flattery	
	Colville	1.5		Central Kitsap	8.0
	Creston	.33 - .5		Chimacum	1.0
	Curlew	.5		Crescent	.5
	Cusick	.5		North Kitsap	
	Davenport	1.0		North Mason	1.5
	Deer Park	1.2 – 1.6		Port Angeles	
	East Valley	6.0		Port Townsend	1.0
	Endicott	1.0		Queets	0
	Evergreen	6.0		Quilcene	
	Freeman	1.0		Quillayute	6.0
	Garfield			Sequim	2.6
	Great Northern	0		South Kitsap	2.0
	Harrington		ESD 121	Auburn	0
	Inchelium	.5		Bainbridge	0
	Keller	0		Bellevue	0
	Kettle Falls	1.0		Bethel	6.0
	LaCrosse	.2		Carbonado	0
	Lamont	0		Clover Park	
	Liberty	0		Dieringer	0

ESD 101 con't.	Lind	.5		ESD 121 con't.	Eatonville	
	Loon Lake	0			Enumclaw	2.0 – 3.0
	Mary Walker				Federal Way	8.0
	Mead	4.0			Fife	
	Medical Lake	3.0 -4.0			Franklin Pierce	
	Newport	1.2			Highline	7.0
	Nine Miles	0			Issaquah	
	Northport	0			Kent	0
	Oakesdale	.5			Lake Washington	2.0
	Odessa	1.0			Mercer Island	.5 – 1.0
	Onion Creek	0			Northshore	4.0
	Orchard Prairie	0			Orting	0
	Orient	0			Peninsula	1.7
	Palouse	0			Puyallup	
	Pullman	1.6			Renton	8.0
	Reardan-Edwin				Riverview	2.0
	Republic				Seattle	63
	Ritzville	.4			Shoreline	8.4
	Riverside				Skykomish	0
	Rosalia	.33			Snoqualmie	2.0
	Selkirk	0			Steilacoom	5.0
	Spokane	0			Sumner	3.0 – 5.0
	Sprague	.17			Tacoma	25.0
	St. John	1.0			Tahoma	
	Steptoe	0			Tukwila	1.0
	Summit Valley	0			UniversityPlace	3.0
	Tekoa	0			Vashon	.167
	Valley	0			White River	3.0 – 4.0
	Washtucna	0		ESD 123	Asotin-Anatone	1.0
	Wellpinit	1.0			Clarkston	2.6
	West Valley	2.6			College Place	0
	Wilbur	1.0			Columbia	1.0
ESD 105	Bickleton	0			Dayton	.5
	Cle Elum	0			Dixie	0
	Damman	0			Finley	3
	East Valley	2.0			Kahlotus	0
	Easton	1.0			Kennewick	
	Ellensburg	2.0			Kiona-Benton	2.0
	Entiat	.3			North Franklin	
	Goldendale	1.0 – 2.0			Othello	2.0
	Grandview	0			Pasco	25.0
	Granger	1.0			Paterson	0
	Highland	1.0			Pomeroy	0
	Kiona-Benton	2.0			Prescott	2.0
	Kittitas	1.0			Prosser	
	Mabton	1.0			Richland	1.6 – 1.8
	Mount Adams	1.5			Star	0
	Naches	0			Starbuck	0
	Royal				Touchet	1.0
	Selah				Waitsburg	1.0
	Sunnyside	2.0			Walla Walla	1.0

ESD 105 con't.	Thorp	0		ESD 171	Brewster	
	Toppenish				Bridgeport	1.0
	Union Gap	0			Cascade	0
	Wahluke				Cashmere	0
	Wapato	2.0			Coulee	0
	West Valley	1.0			Eastmont	3.0 – 4.0
	Yakima	7.0				
	Zillah	2.0			Ephrata	2.0
					Grand Coulee	1.0
ESD 112	Battle Ground	6.0			Lake Chelan	3.0
	Camas	1.8			Mansfield	.3
	Castle Rock	0			Manson	.5
	Centerville	0			Methow Valley	0
	Evergreen	6.0			Moses Lake	0
	Glenwood	.5			Nespelem	0
	Green Mt	0			Okanogan	1.0
	Hockinson				Omak	6.0
	Kalama				Orondo	1.0
	Kelso	2.5			Oroville	
	Klickitat	.33			Palisades	0
	LaCenter	1.5			Pateros	.6
	Longview				Quincy	2.0
	Lyle	1.0			Soap Lake	0
	Mill A	0			Stehekin	0
	Mt Pleasant	0			Tonasket	1.0
	Naselle	0			Warden	0
	Ocean Beach	0			Waterville	.2
	Ridgefield				Wenatchee	
	Roosevelt	0			Wilson Creek	.5 – 1.0
	Skamania	0		ESD 189	Anacortes	0
	Stevenson	0			Arlington	1.0
	Toutle Lake	.5 – 1.0			Bellingham	2.0
	Trout Lake				Blaine	1.0
	Vancouver	10.0			Burlington	2.0
	Wahkiakum	.5			Concrete	
	Washougal	1.5			Conway	0
	White Salmon	1.0			Coupeville	.5 – 1.0
	Wishram				Darrington	
	Woodland	2.0			Edmonds	11.6
ESD 113	Aberdeen				Everett	0
	Adna	0			Ferndale	3.0
	Boistfort	0			Granite Falls	1.0
	Centralia	.6			Index	0
	Chehalis	3.0 – 5.0			LaConner	1.0
	Cosmopolis	0			Lake Stevens	3.0 – 4.0
	Elma	1.0 – 2.0			Lakewood	1.0
	Evaline	0			Lopez	1.0 – 1.5
	Grapeview	0			Lynden	1.5
	Griffin	0			Marysville	0
	Hood Canal	0			Meridian	2.0 – 3.0
	Hoquiam	2.0			Monroe	2.0 – 3.0

ESD 113 con't.	Mary Knight	0		ESD 189 con't.	Mt. Baker	
	McCleary	0			Mt. Vernon	0
	Montesano	1.0			Mukilteo	7.0
	Morton	.5			Nooksack	1.0
	Mossyrock				Oak Harbor	1.0
	Napavine	.5			Orcas	.4
	North Beach				San Juan Island	1.0
	North River				Sedro Woolley	1.0
	North Thurston	5.0			Shaw Island	0
	Oakville	.2			Snohomish	3.0 – 4.0
	Ocosta	.5			South Whidbey	0
	Olympia	1.2			Stanwood	2.0
	Onalaska	1.0			Sultan	0
	Pe Ell	.5 – 1.0				
	Pioneer	0				
	Quinault	1.0				
	Rainier	1.0				
	Raymond	0				
	Rochester					
	Satsop	0				
	Shelton	6.0				
	South Bend	1.0				
	Southside	0				
	Taholah					
	Tenino					
	Toledo	2.0				
	Tumwater	1.2 – 2.0				