



Aspiraciones de los alumnos y educación: Posibilidades en Calnali

Rhonda Struminger, Ph.D. & Yamila Hussein, Ed.D.

Aspiraciones de los alumnos – Encuesta de Calnali, 2012

- Surveyed graduating students from the *Secundaria técnica* about their plans to go on to preparatoria
- Surveyed graduating students from CECyTEH about their academic and professional plans
- Asked students to self identify if they received *Oportunidades*
- Surveyed school principals about their schools & resources



Muchas gracias a los escuelas y los estudiantes en el ultima año en 2012 de Calnali!

- Escuela Secundaria Tecnica No. 9 “Jesus Samaniego”
 - **Sr. Adolfo Cisneros Juárez**
- CECyTEH
 - **Ing. Ernesto Salazar Saéncz**

Why *Oportunidades/Prospera*?

- Interested in education policies (especially government spending) and how such policies may be impacting students and their families' attitudes towards education and careers
- *Oportunidades/Prospera* benefits target families most in need
 - Anti-poverty policy targeting families' nutrition & health, and economically incentivizes students to stay in school

Oportunidades/Prospera

- In 2011, 25% of the Mexican population received *Oportunidades/Prospera* benefits
 - In 2013 ~55-60% Calnali's technical middle school students received *Oportunidades* (survey of students and principals)
 - In 2013 ~60-70% of Calnali's CECyTEH students received *Oportunidades* (survey of students and principals)



89% of surveyed technical middle school students planned to go to high school

	Technical middle school students			
	Does not receive <i>Op</i>	Receives <i>Op</i>	Total	Percent Receiving <i>Op</i>
No high school plans	2	5	7	71%
High School plans	25	30	55	55%
Total	27	35	62	56%

89% of surveyed technical middle school students planned to go to high school

- The **average** education level of Calnali residents is sixth grade (2010 Census)
- 37% of the population (ages 15-24) goes on to high school (2010 Census)
- Those students receiving *Oportunidades* indicated that it made going to school possible
 - Of 62 middle school students surveyed, 35 receive *Oportunidades* benefits and 30 planned to go on to high school

Secundaria técnica – ENLACE results of the students surveyed

Middle School 2012 ENLACE scores of the Graduating Class*

	Total Graduating Students	Spanish	Math	Science
Technical Middle School	67	482	557	514
Technical Middle School: National Average	_____	484	499	494
Technical Middle School: State (Hidalgo) Average	_____	479	541	509

* Graduating students at all schools are in their respective third years

SOURCE: ENLACE

78% of surveyed high school students planned on going to a vocational school/university

	Does not receive <i>Op</i>	Receive <i>Op</i>	Total	Percent Receiving <i>Op</i>
No plans for higher level degree/university	5	24	29	83%
Plans to go on to higher level degree/university University	34	69	103	67%
Total	39	93	132	70%

78% of surveyed high school students planned on going to a vocational school/ university

- Of the 132 high school students surveyed, 93 received *Oportunidades* and 67 (74%) of those students plan to go on to vocational school or university
- Of all students surveyed, 30% indicated that they wanted to go on to university specifically
- ~30% of the Mexican population goes on to university (World Bank)

Student Responses: Advantages of School

1. Gaining a vocational skill
2. General knowledge/learning subjects outside of their area of study
3. Learning self-confidence, getting along with others, and **learning to respect others**
4. Learning about technology and computers
5. Learning English was not important to most students but it was mentioned enough to be in the top five
6. Other responses include: time management, animal care, cooking, and landscape drawing.

Conclusiones de las encuestas estudiantiles

- Por lo general, los estudiantes en la cabecera indican un fuerte interés para obtener una formación de bachillerato y universidad.
 - In general, the students in Calnali schools are indicating a strong desire to get a high school education and beyond
- El programa *Oportunidades* parece igualar las ambiciones de los alumnos, así que los escolares proviniendo de circunstancias más limitadas se parecen a sus compañeros en sus aspiraciones
 - *Oportunidades* appears to be equalizing the ambitions of students so that the poorer students are comparable to their classmates in their aspirations

More Survey Results

- Principals indicated a lack of **equipment** – e.g., microscopes, projectors, Internet access, biblioteca digital, textos actualizados, equipos de computo
- Principals indicated a need for more science teachers and the students did complain about teacher absenteeism

Question for CICHAZ

- *With so much ambition from students and an insufficient number of science teachers, I wondered how could CICHAZ be of assistance to the community?*
- *Con tanta ambicion de los estudiantes y la falta de maestros de ciencia, me pregunto, como puede CICHAZ apoyar a la comunidad de Calnali?*

Posibilidades para el CICHAZ

- Conseguir recursos para contratar a un/a coordinador/a de divulgación para apoyar a maestros y escolares
- Jornada Escolar de Ciencia (Science Fair)
- Laboratorio Didáctico Móvil (LaDida)
- Colaboración con organismos de educación científica
 - Boston Teacher Residency
 - Smithsonian Tropical Research Center – Panama
 - Consejo de Ciencia y Tecnología del Estado de Morelos

Retos en la educacion de maestros de poblaciones marginadas



Programa: 13 meses (+3)

Maestria en educacion y licenciatura (K-12)
Matematicas, Literatura y Ciencia

1. Clases (teoria y metodos de ensenanza).

Clinical Teacher Educators

2. Practica en escuelas con mayoria de
estudiantes de poblaciones marginadas

Collaborating Teacher (experienced
classroom teacher)

Vision: We place students & their learning, first

Desarrollar conocimientos, habilidades y ambiciones

- *Desarrollar una identidad escolar/ académica dentro y fuera de la escuela e interpretar el mundo a su alrededor para participar en mejorarlo.*
- *Interpretar y evaluar la data de fenómenos con impacto directo a sus vidas y comunidades*
- *Leer y escribir con reflexión crítica*
- *Comunicar sus ideas medio de lengua social y lengua académica (escritura, lectura, y comunicación verbal).*
- *Graduación de escuela y bien preparados para universidad*

Principles of High Quality Teaching

La medida de buena enseñanza es el aprendizaje del alumno. Los estudiantes son curiosos, tienen conocimientos y tienen sus propias ideas de la vida.

- Para enseñar con demanda cognitiva alta, el maestro necesita tener un profundo conocimiento de cómo aprenden los jóvenes, y como interactúan con las ideas y conceptos. Eso requiere objetivos de aprendizaje bien claros
- Maestros aprenden a conocer a cada uno de los alumnos como persona y como estudiante para poder enseñarles conceptos complejos y labor académico
- Teachers must enter into collaborative relationships with families, communities, and other educators, in service of student learning.

pedagogía estructuras, rituales,
expectativas

relaciones
(alumnos,
maestros,
familias,
comunidad

Conocimiento & (podèr)
(knowledge & power
Autoridad

informacion
conceptos,
metodos
(pensar y
producir)
lengua
academica

analysis del contexto

Retos y dificultades

- Content knowledge
- Translating understanding of how academic language impacts student access to content into daily practices
- Teachers' curiosity, creativity, initiative (blaming students)
- Classroom management (discipline)
- Context: teacher load, testing, school policies...
- And the list goes on!

HOPE!

- Overwhelming majority of our grads continue teaching in Boston Public Schools
- Students of our grads score higher in standardized testing in Math and average in Science and Language Arts.
- Schools we have worked with have improved overall in academic achievement and graduation rates
- We are assessing our impact on collaborating teachers
- From teacher as manager to teacher as agent of social change

El Fin – Gracias!