

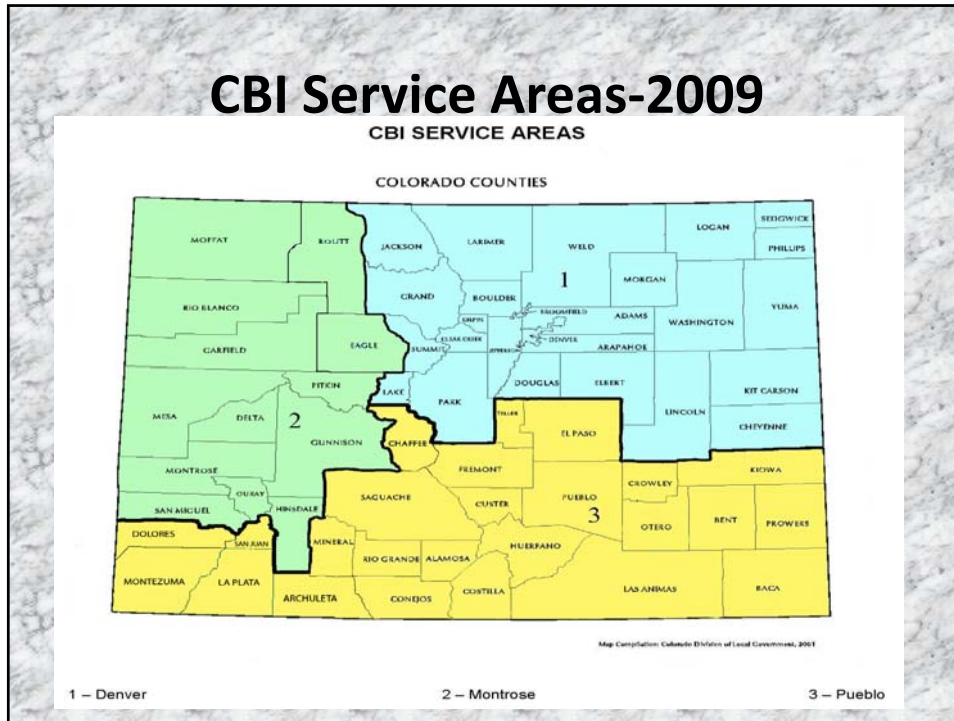
Best Practices



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Laboratories

FORESIGHT

- Why did CBI get involved
 - To learn from others on how to optimize the lab
 - Personnel
 - Facilities
 - Equipment
 - Methods
- Tool
- Guide
- Resources



Colorado Demographics

• SITES	Denver	Pueblo	Montrose(GJ)
Pop.	2,821,851	929,002	400,054
Area	41,765 Sq Mi	29,871 Sq Mi	32,301 Sq Mi
FTE(Total)	25.25	10.55	6.29
2006			
Pop.	2,958,226	1,079,254	437,009
Area	37,715 Sq Mi	28,740 Sq Mi	35,052 Sq Mi
FTE(Total)	29	8	11.5
2009			

Colorado Demographics

• SITES	Denver	Pueblo	Montrose(GJ)
FTE(Total)	25.25	10.55	6.29
FIR/TML	2.65	0.74	1.0
CHE	3.14	2.69	.72
BIO	7.15	3.82	2.35
TRA	2.36	.07	.08
QD	.96		
LAT	3.45	1.66	.8
FTP	.5		.3
DEAV	1.44	.5	
CSI	1.8	1.07	.95
DB	1.8		

EFFICIENCIES FIREARMS/TOOLMARKS

Discipline/FY	FTE	Area Cases	Area Reports	Turn Around Time	Hours	Hours per FTE
FIR/TLM 2006	4.39	1454	925	184 days	3049	695
FIR/TLM 2009	3.15	NA	926	>365 days	NT	NT

Discipline/FY	FTE	ITEMS	SAMPLES	TESTS	ITEMS per FTE
FIR/TLM 2006	4.39	7003	7313	11849	1595
FIR/TLM 2009	3.15	3691	NT	NT	1168

COST

TIME	Expenditures- Total	Expenditures- Personnel	Overall Costs	Overall Cost per case	Overall Cost per Item
Regular	\$59,936	\$376,047	\$435,983	\$344.92	\$71.56
Overtime	\$8,810	\$82,918	\$91,728	\$482.78	\$100.68
Total	\$68,746	\$458,965	\$527,711	\$362.94	\$75.35

FIREARMS FY2006

- **Benchmarks**
 - CBI established Benchmarks for all disciplines in Calendar year 2005 (Referenced 1991 BCJ study)
 - BioScience
 - Chemistry-Drugs
 - Chemistry-Trace
 - Firearms/Toolmarks
 - Latents
 - Shoe and Tire
 - Questioned Documents

FIREARMS FY2006

- **Benchmarks**
 - CBI established Benchmarks for all disciplines in Calendar year 2005
 - 2006 CBI was counting exams and required 100 exams per analyst per month
 - 2009 No longer using bench marks as we are not tracking exams
 - Also lost 2 individuals and are training 1

EFFICIENCIES

- **NIBIN-**
 - Trained evidence custodians to do the entries.
 - Analysts perform the function checks,
 - Analysts do the test fires (some agencies are doing the test fires and submitting the cartridges),
 - Analysts perform the correlations and verifications if there is a hit.

Firearms

- **Casework**
 - Cover letters and interviews with the submitting agency are the keys to being certain the work needs to be performed.
 - If it is deemed to be of forensic value then the samples tested to answer the forensic questions are done.
 - Prioritize
 - Homicides
 - Officer Involved shootings

RESULTS

- **FIREARMS:**
 - Due to retention of analysts , budgets and training of new analysts the CBI has been left with creative ways of responding to requests for firearm examinations.
 - Priority
 - Homicides
 - Officer involved shootings
 - Court ordered deadlines
 - Investigative feedback at request of agency
 - Oldest in the system

FIREARMS EXAMINERS

- During the period from 2000 to 2008 the CBI lost the services of:
- 1 FTE with over 30 years of experience in Firearms.
- 1 FTE was trained and left after 4 years. That position remained unfilled for a year. Position moved to Grand Junction and that person is in training.
- CBI's biggest concern has been replacing these experienced firearms examiners.
- Battling the DNA syndrome – glamour discipline

VALUE

- PERSONNEL MANAGEMENT
 - Benchmarks
 - Efficiencies
- FACILITIES
 - Justification
- OPERATING COSTS
 - Justification
- CAPACITY ENHANCEMENT
 - Equipment
 - LIMS
 - Software/Hardware upgrades
- CONTACTS
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