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A report of the Survey of Sanitary and Health Conditions and Facilities in Eleven State Institutions. 1944.



## INTRODUCTION

To the Honorable John C. Vivian, Governor of Colorado and the General Interim Committee of the Thirty-Fourth General Assembly of the State of Colorado.

The following is a report of the survey of sanitary and health conditions and facilities in eleven state institutions, conducted under the supervision of the State Board of Health.

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On July 5, 1944, the Honorable John C. Vivian, Governor of Colorado and the General Interim Committee, instructed the Colorado State Board of Health through its Secretary to inspect the sanitary conditions and "all matters usually included in a sanitary inspection, as an investigation of ventilation in dormitories, dining rooms and other group gathering rooms, an investigation of adequacy and nutritional value of food served upon typical days, and especially in institutions charged with the care of children, an investigation of conditions which may increase the hazard of contagion and infection." The following institutions were inspected:-

1. State Home for Dependent Children - 2305 So. Washington Street, Denver.

2. Home for Mental Defectives - Ridge.

3. Home for Mental Defectives = Grand Junction.

4. Girls' Industrial School, - Morrison
5. Boys' Industrial School - Golden.
6. State Reformatory - Buena Vista.
7. State Penitentiary - Canon City.

8. Colorado State Hospital - Pueblo.

9. Colorado School for the Deaf and Blind- Colorado Springs.

10. Industrial Workshop for the Blind - Denver.

11. Soldiers and Sailors Home - Homelake.

Inspections and observations were made by:-

Roy L. Cleere, M. D., M. P. H. - Secretary and Executive Officer, State Board of Health Charles G. Grover, D. D. S. - President, State Board of Health.

Robert A. Downs, D. D. S., M. P. H. - Division, Maternal and Child Health.

Irving A. Fuller - Division, Plumbing.

James Doyle - Division, Sanitary Engineering.

Upon request the Colorado Nutrition Council assisted the State Board of Health by investigating the "quality, adequacy and nutritional value of food served on typical days," in the above institutions.

The personnel of the committee was as follows:-

Dr. Elizabeth Dyar - Chairman of the Survey Committee of the Colorado Nutrition Council, Professor of Home Economics, Colorado State College, Ft. Collins, Colorado.

Miss Clara A. Ridder - Executive Secretary, Colorado Nutrition Council.

Dr. Robert A. Downs - Chairman, Colorado Nutrition Council, Director of Dental Health, Colorado Division of Public Health. Mrs. Hazel E. Combs - Director of Dormitories, Simmons College, (formerly dietitian, Rockwell, Colorado State College.)

Materials and data gathered have been compiled and arranged in outline form by Mildred East, Hospital Inspector for the Colorado State Board of Health.

Respectfully submitted,

Executive Secretary of Colorado State Board of Health

SANITATION		STATE INSTITUTION	S					
(A) BUILDINGS	(1) GENERAL CON- DITION	(2) EQUIPMENT	(3) SPACE PER CAPITA	(4) VENTILATION	(5) LIGHT- ING	(6) SCREEN_ ING	(7) TOILET & BATHING FACILITIES	(8) DRINKING FOUNTAINS
State Home for De- pendent Children	In need of minor repairs such as:  1. Painting 2. Plistering 3. Roofing Buildings are old but fairly well maintained	Old - but being maintained in satisfactory manner	Nursery (for small babies) needs to be enlarged or rebuilt. No overcrowding evident in other buildings	Fairly good window ven- tilation is possible	Old type fixtures should be replaced	Good	Additional facilities are required. Old type fixtures should be replaced as:  1. Merrill Hall has thirty-five beds. Has one water closet. Plumbing seems satisfactory in:	Bubbler type fountain should be replaced in:  1. Infirmary two bubbler type drinking fountain heads.  2. Howe Building One
	TOWNSON THE STATE OF THE STATE		con manufact of store	of Seats at or in the feetball for any and any and any and any	Mattl- Besite cates appear continue cates appear continue cates appear	Mary per on the per per show or per show o	a. Edbrook Blag. b. Willard Bldg. c. Nursery Bldg. d. Campbell Bldg. e. Washington Bldg.	
Ridge  Home Train- ing for Mental De- fectives	In need of general repair including: 1. Flooring 2. Plastering 3. Painting Buildings are comparatively modern design and construction	Fair - Some new equipment needed	Excessive crowd- ing. Need additi- onal housing fac- ilities to relieve congestion and allow segregation according to age, groups, sex and mental classific- ations. (All avail- able facilities should be put to us	Fairly adequate under normal conditions. (Congested population at present)	Fairly ade- quate	Satis- factory	Prohibited type of fixtures should be	Bubbler type fountain should be replaced in:  1. Laundry area 2. Some additional units installed in other locations

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The first stands the constant of the

- Commercial Commercia									
SANITATION	ST	ATE INSTITUTION	IS						
(B) UTILITIES	(STATE HOME	FOR DEPENDENT					The state of the s		
(1) WATER SUPPLY	(2) SEWAGE DIS- POSAL		(4) HEATING	(5) POWER PLANT	DINING ROOM	(2) KITCHEN	(3) FOOD PREPARA- TION & HANDLING	(4) FOOD STORAGE	(5) CANNING
Approved - Supply from City of Denver	To City of Denver	Main kitchen waste and supply pipes should be remodeled. Grease traps should be moved to new location to prevent effluent from seeping into root cellar.	satisfactory	Ade- quate for present needs	Lacks adequate light and ventilation. Some over-crowding. Generally well maintained.	Generally well maintained. Old equi- pment-some in need of re- placements and enlarging. Kitchen could be rearranged for less con- fusion.	maintained. Resident labor is utilized.	Present ice machine is too small. defrigeration spaces needed for all products raised on farm. There should be: 1. Quick freeze room for meats. 2. Room for fruits and vegetables. 3. One for dairy products.	Some spoilage, recommend approved equipment and metaods.
RIDGE - HOME AND T	RAINING SCHOO	L FOR MENTAL D	EFECTIVES			A MARIE AND			
ply is uncertain and of a quality detrimental to the power plant and heating system. As a result the heating system has been operating sluggishly; is	ed to con- form to State San- itary Laws and Regul- ations.	Fairly satisfactory.  Girls'Ward  #1.  1st and 2nd floor water closets are of old sty- le seat action flush, which in under cer- tain condit- ions might cause a cross connec- tion between bowls and house water supply	Adequate	needs.	Capacity not adequate for number of inmates. Equipment old and should be replaced.	Needs additi- onal storage facilities. Some equip- ment in need of replace- ment and en- tire unit in need of pain- ting and re- modeling.	Sanitation practices satisfactory. Need supervision of qualified dietitian.	Good	Som: spoiled and therefore potentially dangerous canned goods on hanl. Recommend approved equipment and methods.

SANITATION STATE INS	TITUTIONS		-	7	1/=\	V	V>	
(D) DAIRY	(E) SWIMMING POOL	(F) GARBAGE & REFUSE DISPOSAL	(G) RODENT & VERMIN CONTROL	(H)  FIRE PREVENT_  ION	(I) INDUSTRIAL HYGIENE & SAFETY	(J) ALCALATIONAL FACILITIES	(K) Grounds 1	L) FARM
State Home for Dependent Children. Approx. 80 gal. of milk produced per day. RECOMMENDATIONS:  1. That walls and ceilings of dairy barn be painted. 2. Hand washing facilities be in- stalled including: (a) Soap and clean towels. 3. Easily cleaned smooth heavy gauge buckets and strainers. 4. New type pasteurization equip- ment should be provided: (a) New pasteurization vat. (b) Recording indicating and air space heater thermometer. (c) Air space reater. (d) Dump vat. (e) Bottling and capping mach- ine. (f) New 1½ inch piping and fit- tings.	Outdoor pool of fill and draw type utilizing City water. This pool is potentially dangerous. Should be equipped with recirculation filter and chlorinating equipment to conform to turbidity and bacteriological standards of the State Board of Health.	Gerbage fed to hogs. Trash is adequately disposed of.	Evidence of rod- ent which should be elim- inated.	Depend upon Municipal Fire Department for protection. Insufficient number of: 1. Fire plugs 2. Hoses - as there are a large number of non-fire- proof bldgs. Insufficient escapes and some not properly protected.	Some minor wood working activity. Machinery should be equipped with necessary safety devices.	Expanded fac- ilities indicat- ed as needed, particularly for age groups.	Satis- factory	
Ridge Home and Training School. Approx. 90 gal. of milk per day. Dairy barn is in good repair. Small pasteurization plant which is adequate for present population. New piping and fittings should be instal in poor repair. Iso indicating and needed on the pastuerizing vat and sinstalled. New tottle filler and camilk to be served from original community which is now the practice. Present comodate this equipment and utensil tericidal operations. Smooth heavy should replace buckets in bad repair	air space heater the mair space heater sapper should be purch tainer - not five or milk house needs add storage, as well as a gauge buckets of a five significant sample.	ased allowing ten gallon cansditional room to washing, rinsing	and bac-	There is an existing shortage of fire plugs and equipment. Institution depends upon Arvada Fire Department for protection.	Minor act- ivity.	Additional facilities of proper type should be provided.	Well main- tained	Well main- tained hous- ing facil- ities should be provid- ed for farm agents.

MOTENTIAN

SANITATION - STA	ATE INSTITUTIONS							
(A) BUILDINGS	(1) GENERAL CONDITION	(2) EQUIPMENT	(3) SPACE PER CAPITA	(4) VENTILATION	(5) LIGHTING	(6) SCREENING	(7) TOILET & BATHING	(8) DRINKING FOUNTAINS
Grand Junction State Home and Training School for Mental Defectives.	Older buildings should be repaired or razed, such as:- (1) Old dining room building. (2) Kitchen unit. (3) Present auditorium building. (4) Machine Shop.  EXPANSION PROPOSED (1) Epileptic Bldg. (2) Addition to present newer bldg. to relieve congestion. (3) Expansion of laundry unit.	Good-modern equipment. Old equipment in old buildings should be re- modeled or re- placed	possible with pre- sent capacity.	Fairly good in newer build-ings.	Approved in new buildings. Remodeling should be done in old bldgs.	Good	FACILITIES Fairly good- some improve- ments recom- mended in older buildings.	Fairly adequate
Morrison Industrial school for girls	Buildings are old, but are maintained in an immaculate manner. Remodeling or re- placement program is recommended (New school building is only modern build- ing on premises.)	Old but in good repair. Replacement program is recommended.	Not overcrowded but all available space is utilized. New buildings should be studied for postwar expansion	Good to fair considering age of build-ings.	New fixtures should replace old types	Good	Old equipment should be replaced Individual toilets and wash basins in each room. (At present girls have pot under bed.) Clara Barton Blig. Toilet room on 2nd floor should be enlarged including:- (1) Toilet Bowl (2) One slopsink (3) Three wash bas	

SANITATION - STATE INSTITU	UTIONS							
		AND TRAINING SCHOOL	01.)	(C) DINING R	ROOM FACILITIES			
(1) (2)	(3)	1(4)	(5)	(C) DINING R	(2)	1/2/EOOD DUBDID	17	-
WATER SUPPLY SEWAGE DISPOS	ALPLUMBING	HEATING	POWER PLANT	DINING ROOM	KITCHEN	(3)FOOD PREPARA- TION & HANDLING	FOOD STORAGE	(5)
City of Own disposal Grand Junct plant	Minor and emergency re-	Fairly adequate. Transmission	Taxed at present. No	Inmates are be-	Fairly good	Inmate help	Maintained in	CANNING Consider-
ion by means (Is in need	pairs are be-	lines in need of	surplus for	ing fed on the	equipment well- maintained but	used. Food pre-	a satisfactory	able can-
of new line of maintenance		remodeling.	additional	edule because of	it is of an	paration is done efficient-	manner. Refri- geration cap-	
recently personnel.)	an inmate	Should have com-	building pro-	lack of capacity	antiquated style	ly. Needs add	acity should	ivities.
laid.	(loaned by the State Peniten-	plete temperature control equipment.		Dining room should	Not sufficient	itional outside	be enlarged.	central
	tiary). Major	control equipment.	repair of trans	be replaced and	in size. Pre- sent kitchen	employees.	(Ice machine	canning
	repairs & new			hospital building	facilities are		is about sixty	
Sales Services	constructions	er. Vacuum break-	would give some	would make a de-	too small. A		years old.) Recommendations	Utiliz-
sente.		er should be in-			ventilating hood		1. Cold storage	per equin-
Districtive of adaptions of		stalled on auto- clave and hydro-	acity.		should be in-		units.	ment
The should be found		therapy tubs.	243		soup kettles		2. Quick Freeze	
					looap Rootics		3.Deep Freeze New ice machine	methods.
MORRISON (Girls' Industri Well water. Good oper-							N JW 100 machine	
Well water. Good oper- Present sup- ating cond-		Adequate Individual	THE PARTY OF THE P		Exceptionally		Additional	Canning
		heating sys-			good. Individual kitchen located			is done
equate but is adequate.		toms in each			in each cottage.		nseded. In- dividual stor-	in indi-
supply should		building. Com-		located in		· ·		cottages.
be supplemented by well		olete temper-		cach cottage,		cers and	each cottage	Recomm-
now in poss-		equipment be		was found to be exception-			are maintained	
ession of	waste pipes for			ally good.			satisfactorily.	
Federal Cor-		installation.						ation · · be given
rectional In-	sinks are worn L						to the construc	
School has re-	2. Main soil pipe	line from bath		The contract of the contract o			central commiss	
tained life	on second floor b	roken.	of a marginal				canning unit, u	
lease on this	Ramona Cottage		and the state of t				approved equipment of the control of	ent and
well.	1. Water closet h	oles in basement	and described on the second se				no onous.	
	should be permane Satisfactory in:-	ntly scaled.						
THE RESERVE OF THE PARTY OF THE	1. Purcell Cottag			ALERE SERVICE TO THE	decided Sin-			
A CHARLEST AND A CONTROL OF THE	2. Marion Rogers	Cottage	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		Committee-			
	3. Frances Willar	d Cottage						
100	4. Chappel Cottag	0	1	Control of the Contro	The second second			5

(D) DAIRY	(E) SWIMMING POOL	(F) GARBAGE & REFUSE DISPOSAL	(G) RODENT & VERNIN CONTROL	(H) FIRE PREVENTION	(I) INDUSTRIAL HYGIENE AND SAFETY	(J) RECREATIONAL FACILITIES	(K) GROUNDS	(L) FARM
crand Junction State Home and Craining School Cor Mental De- Cectives. Cairy lacks ne- cessary equipment o conform to tate require- cents.  The control of the control of the conform and conform to the conformation to		Carbage fed to hogs and re- fuse adequately disposed of.	Satisfactory	Immediate fire control measures should be taken in buildings. Present fire hydrants should be connected to new distribution lines, inasmuch as present fire line is subject	Minor activity	Additional recreational facilities should be provided allowing segregation according to mental and physical classifications.	Gnow, but in need of further landscaping.	Good
	2. Milk house i	ry barn on new Farm ncluding: ation equipment.	de sense sense sensense sense se given to post- or sense	to breakage. In- stitution depend- ent on Grand Junction fire de- partment.				
	supply this an extension Also to supp a. Required	present water system for a present water system.	eans of system.					Cirtura, Pare plai

ALDE LEDINE.

(A) BUILD-	- STATE INSTITUTIONS (1) GENERAL CONDITION	(2) EQUIPMENT	(3) SPACE PER	(4) VENTILATION	(5) LIGHTING	(6) SCREENING	(7) TOILET & BATH-	(8) DRINKING
INGS		(~) Decimant	CAPITA	(1) VENTIERIE	(o) Branzina	(o) bondbirting	ING FACILITIES	FOUNTAIN
	Buildings are old and are in need of repair. There should be remideling and replacement program.	Antiquated. Should be repaired and replaced. Mattresses are very old and insanitary.	by building pro-	not satisfactory	Does not meet with modern stan- dards.	Improvement could be made around dairy barn area and other build-ings.	Troop "A" Building " "C" " " "D" "	Bubbler type of fountain should be replaced in:- 1. Tailor Shop 2. Laundry 3. Gymnasium 4. "C" Building 5. Academic Bldg. Additional fountains should be installed.
duena Vista	Most buildings are ap-	Due to past	Not congested at	Good in newer	Very poor in	Improvements	School Building New section is good	Older types should
lder Boys'	proximately 50 years of	building pro-	present time. Con-	dormitory.	old cell	needed · · ·		be replaced by
eformatory	age or over. They	grams a good	sideration should	Poor in old	building and	around kit-	in older section as	modern sanitary
brained fire	should be remodeled or	amount of ap-	be given to post-	cell building	other old	chen area.	1. Warden's Build-	Fountains. Some
he City W	be razed and replaced.	proved equip-	war needs.	and other old	buildings.	Screens at	ing. Traps are un-	additional units
		ment is on	alleged school were dis-	buildings.	tistee 1	windows,	vented. Waste pipes	required.
	exceptionally poor con-		op line bearing to say !	a Mayone of the	o weter from	canopy over	are continually	leuparvi.si
		and equipping	I mater area under	- urinti.		stove are	stopped up. Numer-	
	modeled with exception	program should	a gal wand not unlast			both needed.	cus leaks. One	
		be completed.	wants out work on	aschious to fixts	ros in toolat	Form on Line	trap serving more th	nan one fixture.
The second secon	should be replaced with						2. Administration Bu	
	modern unit. Present adm		ealte heat peins o	DEFECT OF BUILDING		and the same of the	material. Bad instal	
	building, the assistant		in trans- to hondy	name. Paper family as	mer ro- pti	net Ke	3. Cell House. Sani	
	office and the old laund		ton liven. Eng. di	str stories (hande)		and hands the	should be provided :	in place of hopper
	should be razed and repl		cala liene dons, d	umai, himelaquie		rangua.	type. Also wash bas:	
	structures. Modern Admin		- Dinking & ping, av	one conce-brails		Mittional B.	Sanitary conditions	
	ing with facilities for		ing should inge, as	scurical		Legitation. 25	are deplorable.	t that high sphone
	new inmates should be co		aplately bondukt	s & Musican Mississi		erodeling \$19	4. Cell House Annex.	Good material.
	Modern bungalows, apprex		inless. Ang bar	shape & should		palerning, E.	well installed. This	
	should be furnished for		Foll Bense Wied. H	resent plant is a		The second	house hospital, laur	
THE RESERVE THE PROPERTY OF THE PARTY OF THE	Warden's home should be						photostat and finger	print room.
	placed. New gymnasium bu		Besperature batter	. Hadre cad out		100	5. Laundry, shoe sho	op and library.
	be completed (now 40% co	mplete).	and and a street				This building is to equipment moved to	be abandoned and
							6. Dormitory. First	floor is fair. Sec
						7	floor has been vacat	ted as unsafe.

Andrew Andrew

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SA TATION - ETATE INSTITUTIONS			ten for the second			
(B) UTILITIES (GOLDEN - INDUSTRIAL SCHOOL FO		The second secon	OM FACILITIES			
(1) WATER (2) SEWAGE (3) PLUMBING SUPPLY DISPOSAL	(4) HEATING (5) POWER PLANT	ROOM	(2) KITCHEN	(3) FOCD PREP- ARATION & HAND- LING		(5) CANNING
Well has been Through a septicStore Room under invos- tigation for ent going to tween toilet contamination the Golden room and waste Has shown sewer lines for from drinking four consecdisposal. Befountain should utive years cause Golden be corrected. of drouth.	temperature con-throughout. Not trol through- utilizing val- out. uable equipment which has at some time been pur- chased.	replacement of equipment.	not being maintained in a sanitary manner Walls, ceilings floors, etc. were not sanitary. Dish	confusion and lack of super- vision. Need services of trained dieti- tian.	storag area should be re-	Present building lacks suit- able equip- ment and facilities for person- nel & pro-
supply be held in re- serve that reatment sewage Replace waste pip system be con- ebtained from the City of recommended that place.  Officers' Apts.  Officers' Apts.  Hospital Install vent trap.  the institution. Bakery & Kitchen traps should be recommended that place.  Officers' Apts.	Install vents to all unvented trapes to fixtures. on sink in surgery proper floor contracts	s already in s at fixtures. onnections and e pipes to of floor	of personal			cessing. Approved equipment should be provided and all can- ning proced- ures should be under competent
Troop "A" Bldg. In	w trap and connection to dispose of install vented trap under urinal. hange galvanized urinal. ange waste and vent connections to HOOL.					supervision.
New line to Institution is Adminis. Bldg. Buena Vista discharging raw New domestic hot water supply.  Institution is Adminis. Bldg.  New line to Institution is Adminis. Bldg.  New domestic hot gal.) and floor gal.) and floor drains are need-ation: Construction of an aded. If this equate sewage disposal system.	Excessive heat Being operated by lost in trans- a handy man. Pip- ing, distribut- ions, tunnel, hous- ing, steam sewer- heating should be completely remodeled.  Being operated by land man. Pip- ing, distribut- ions, tunnel, hous- ing, steam sewer- ing, steam sewer- ing bad shape & should be completely remodeled.	and minor re- modeling. Good equipment is available. ines in exceed- ould be remod-	ations:  1. Vent hoods  for ranges.  2. Additional  refrigeration.  3. Remodeling  and painting.	factory Recommend- ations: 1. Strict san- itary super- vision. 2. Specialized	sary building is outsile of compound. Difficult because of distance removed from kitchen	ning unit using ap- proved equipment and meth- ods.
factory in 1. Carage & 2. Storercom	Old Cell House   eled. Present plant Poor installat-   ion. Temperature between floors and ies excessively.			ed & utilized.	Should be incorpin the kitchen ar ially meat handli	ea, espec-

SANITATION - STATE INS	STITUTIONS							
(D) DAIRY	(E) SWIMMING POOL	(F) GARBAGE & REF- USE DISPOSAL	(G) RODENT AND VERMIN CONTROL	(H) FIRE PREVENTION	(I) INDUSTRIAL HY GIENE & SAFET		(K) GROUNDS	(L) FARM
Golden  Approx. 100 gal. produced daily.  Recommendations:- (1) Dairy room and pouring be remodeled to conform to approved standards. (2) New two compartment wash and rinse vat as well as a new aerator unit, milk bucket, strainers, hand washing facilities wear sanitary outer gar and bactericidal treatmin a room partitioned fling operations and milfacilities be frovided, cording thermometers on space thermometers be ibottling and capping ma Board of Health Standar	ments. (4) That ment and storage of rom processing, c.k house. (5) That sanitary piping a pasteurization venstalled. (6) Conchine in compliant	Trash collection is adequate. Garbage fed to hogs. Recommendation:- (1) Additional garbage containers. (2) Placed in screened in rack above ground adjacent to kitchen.  That all milkers washing, rinsing futensils be done coling and handthand washing replaced and repart as well as air coler with cover,	No particular trouble exists.	Lack of depend-	Needs safety devices to contro occupational hazards.	More diversified	Fairly good shape.	Recommend- ations (1) Con- siderable remodel- ing. (2) Add- itional equipment.
Buena Vista Approx. 75 gal. of raw milk per day. Recommendations:- (1) Approved type milk house to re- place present un- satisfactory unit. (2) Pasteurization unit. (3) Modern cooling facilities. (4) Bottling and cap- ping equipment. Present dairy barn is satisfactory.	None	Refuse disposed of adequately. Garbage fed to hogs.	ion - su Good	tributing system	Minor activity should be expanded.	Need for enlarging re-creational facilities, such as: remodeling of present mess hall building and gymnasium, etc.	Good	Approved

SANITATION	S	TATE INSTITUTION	NS .					
(A) BUILDINGS	(1) GENERAL CONDITION	(2) EQUIPMENT	SPACE PER CAPITA	(4) VENTILATION	(5) LIGHTING	(6) SCREENING	(7) TOILET & BATH- ING FACILITIES	(8) DRINKING FOUNTAINS
Canon City  Penal = for men and women.	Buildings are in good condition with exceptions of:  1. Cell House #2  2. Cell House #3    Post War planning should include:  1. New cell house  2. Administration building.  3. Hospital.  4. Garage.	Generally in excellent condition.	Adequate for present population.	Generally good. Exceptions are Cell House #2 and #3.	Generally good - ex- ceptions are Cell House #2 and #3.	Generally good.	Adequate except Cell House #2 and #3. There is a cross connection of pipes which causes back-pres- sure and syphonage of contents of water closets into drinking water. Plumbing system should be complete- ly remodeled.	Generally good.
PUEBLO State Hospital for the Insane.	Majority of build- ings are new and modern as a result of a past building program. Twelve to fifteen old build- ings remain which should be remodeled or replaced.	Old and in sanitary equipment in:  1. Male kit- chen.  2. Female kit- chen.  3. Old build- ings.	Overcrowding in older buildings. Should be remedied by post war expansion program.	Ventilation is not suit- able in old- er wards and kitchens.	Not ample in older struct- ures. Ample in new build- ings.	Generally fair.	Inadequate in older wards, buildings and kitchens. Adequate in newer ward buildings. Canning factory lacks adequate toilet rooms with new style fixtures.	Approved in newer structures. Not adequate in older buildings and throughout grounds.
COLORADO SPRINGS State School for the Deaf and Blind.	General condition of buildings is good. Some new buildings and some old tuildings.	Generally well maintained.	Ample room - no noticeable crow-ding.	Good	Good - ex- cept in older buildings.	Good	Excellent in new- er buildings. Re- modeling or re- placement needed in older buildings.	Good

SAN	ITATION -	STATE INSTITUTIONS								
(B)										-
	LITIES (C	CANON CITY - PENAL FO	R MEN AND WOME	(1)		(C) DINING POOR	FACTI TOTAG			
	WATER	(2) SEWAGE DISPOSAL	(3) PLIMBINE	1(4) HEATING	(5) POWER	(C) DINING ROOM	thought in	1	1	1
	SUPPLY		(o) I Dombine	(1) 1111111111		(1) DINING ROOM	(2) KITCHEN	(3) FOOD PREP.	(4) FOOD STORAGE	(5) CANNING
Wate		Raw sewage is dispos	Icell house	li-onome list ado	PLANT			& HANDLING		
	ed by	ed into the Arkan-		Generally ade-	laxed at pres-	Excellent	Excellent	Good sanitary	Somewhat taxed &	'All canning
		Co Dinor Arkan-	z and s. Old	quate. Temper-			amount of	practices need	should be expand	should be done
METI	is owned	sas River. A sewage					cleanliness	dietitian on	ed. Store room	by approved
by 3	institut-	disposal plant shoul		throughout	future ex-		and efficien-		in need of add-	
		te constructed eithe		should be con-	pansion.	ARREST PARTY OF THE PARTY OF TH	cy. Butane ga		itional ex-	equipment and
	ping	in conjunction with		sidered.		The state of the s	is used for	The state of the state of		methods.
equi	ipment is	the City of Canon	1. The plumb-			STREET, STR.		December 19	pansion.	
taxe	ed. Shoul	City or by the peni-	ing in these	buildings shou	d be completel	v remodeled be	ranges and			
be e	enlarged.	tentiary. Penitent-	fore they are	used again D	accorde Anti-	y remodered be-	ovens. Remair	der of cooking		
Emer	rgency	iary farms are pol-	Back programs	and and	sasons: Antiqu	ated lixtures.		steam. Dishes		
auxi	iliary 6	luting Arksness Pir	Back pressure	and sypnonage.	in Branti		are washed wi	th steam.		
inch	line	luting Arkansas Riv- er in conjunction	nospital Blag	Needs 2,500	ft. of cast ire	on steam heating				
		or THE CONTINUE OF CHE	radiation							
oita	rected to	with the Abbey. Dis-					- The second sec			
crty	suppry.	posal system should	be constructed	either in comm	non with the Abl	bey and Canon				
		City or by the penit	entiary.							Activities of the second
		(FUEBLO)	The state of the s							
Appro	oved -	Approved:	Generally in C	Generally ade-!	In process of	E1		The second secon		
City		City of Pueblo.	good condit-	quate. Consid-	in process of	remaie and male	Floors should	Inmate labor no	t Capacity not	Some remodel-
10.					*	CHATTER TOOMED	no Turara Tu	done in a 100%	adequate. Should	ing should be
Well	sites		maintained by	eration should		Floors are old	main kitchen	satisfactory		done here. In-
	available		three linear by		ers should be	patched and in	with water-			mate labor used.
	irriga-		three licens-		replaced.	deplorable con-	proof materi-			
	, should		ed plumbers. p		Lacks 100 %	dition. Lack	als that are		in fainle satisfic	Canning done
	eveloped	Marie		trol through-	standby equip-	sufficient floor	slip proof.	cod Special Land	in fairly satisfy	ctory manner.
De de	s ve Tober	PROPERTY OF THE PARTY OF THE PA		out institut- m	ment. Current	drains.	Sufficient num	her of floor dre	ains should be in	
	d dailer		i	ion.	acilities now	Garbage room in	ceilings and a	quinment about	be remodeled or	stalled. Walls,
	inchile		The side and le			mens' dining	oortrings and e	quipment should	be remodeled or	replaced.
		the same of the sa	power plant is	½ AC, ½ DC. P1		com needs now fi	loom and and 13			
		· ·	vert 100% AC.			eplaced.	loor and scull	ery sink. These	rooms should be	remodeled or
-		COLORADO SPRINGS)	ALIEN NAMED IN		11	opiaced.				
		City of Colorado	Generally A	dequate. Well A	dequate and Is	Satisfactory A	1			
	ngs is S	Springs approved.	good & well m	aintained.	ell maintain-	Paulstactory A	Approved.	General condition N	leeds additional	ome canning
appro	ved.							is excellent. s	torage spaces.	lone of fruits
				rol equip-	u.   6	equipment.		(Note that		vegetables
			censed Plumb m	ont oquip-				school was		grown on prem-
			er is employ-	CII C.				closed at time		
								of inspection) S	tock on hand appe	ses.
			ed).						ood condition	area to be in
								16	ood condition. Ap	proved equip-
								lm.	ent and methods s	1 111

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SANITATION - STATE INSTITU		1						
(D) DAIRY	(E) SWIM- MING POOL	REFUSE DISPOSAL		(H) FIRE PREVENTION	(I) INDUSTRIAL HY- GIENE & SAFETY			(L) FARM
CANON CITY  400 gal. of raw milk a day. Herd has never been Bangs tested.  Recommendations:  1. That herd be Bangs tested and reactors segregated from milking here 2. That complete pasteurizin compliance with Health	d. zation equip	hogs. Refuse satis- factorily dis- posed of.	Satisfactory	Farm is totally without fire protection. Recommendations: 1. That crew for fire prevention and control work be trained. 2. That fire truck be itentiary to cover tassist municipality	occupational haz- ards.  e installed at pen- chis property and	of facilities. This condition should be con- sidered and corrected.	Excellent	Excellent
PUEBLO Dairy is only approved state owned plant. Minor faults were found at time of inspection as: 1. Painting of dairy barn. 2. Lack of hand washing faults. 3. Teat sterilizing.		hogs and refuse satisfactorily incinerated.	Recommendations:  1. Vigorous extermination program centered in	Depend upon Pueblo Fire Depart- ment for protection. Distinct fire hazard in older buildings. Generally protected 1. Sprinkler system struction of new bui	occupational work is programmed. by: and fire proof con-	recreational program with necessary fac- ilities.	Generally good	Well managed and conducted
COLORADO SPRINGS 75 gal. of raw milk produced daily. Recommendations: 1. Pasteurization equipment. 2. Approved type of milk house. 3. Cooling bottling and capping equipment. 4. Present dairy barn is satisfactory.	None	Garbage fed to	Adequately con- trolled at pre- sent time.	Adequate protection City of Colorado Springs Fire De- partment. Fire hazards in old buildings. Need fire drills and fire prevention ex- ercises. More fire fighting equipment.	al hazards should be studied and nec-	forms of re-	Well maintained	Approved.
								12

SANITATION	STATE IN	NSTITUTIONS						
(A)	(1) GENERAL CONDITIONS	EQUIPMENT	SPACE PER CAPITA	VENTILATIO N	(5) LIGHTING	(6) SCREENING	(7) TOILET & BATHING FACILITIES	DAINKING FOUNTAIN
DENVER Industrial workshop for blind.	Approved new buildings. (Meals are not prepared or consumed on premises; the workers are not housed within building)	police mile bear pleased greened in	Comostata Comostata				Adequate. Are kept in a clean and orderly manner.	Satisfactory type.
HOMELAKE State Soldiers and Sailors Home.	1893-1896. Need	Old . nd worn out. Should be re-	Inadequate. Needs building program in view of post-war ex-	Very por in older units.	Poor. 01d type fix- tures should be	In need of replacing and repair.	moded bathrooms	Needs addition- al number of approved units.
	for remodeling and replacement program. Need for cottage facilities for key personnel.	placed.	pansion.		replaced.			
								13

SANITATION - STATE INSTITUTIONS (INDUSTRIAL WORKSHOP FOR BLIAD) UTILITIES (3)FOOD PREPARA-1(4) (5) (1) (2) (2) (3) 1(4) (5) (1) HEATING POWER PLANT DINING ROOM KITCHEN SEWAGE DISPOSAL PLUMBING TION & HANDLING FOOD STORAGE WATER SUFPLY CANNING BLID Complies with Low pressure None None None None None Denver None Denver State plumbsteam. ing code. Stoker - No thermostat. Seems adequate. In general in System is Present plant Entire In poor con-Institution is Inmate labor Not adequate. Considerable HOMELAKE structure in dition; old and not without sewage poor shape lis old and in used. New live-Additional canning act-Taxed at preneed of the- should be re- stock slaughtertoo satismeed of considtreatment plant. In need of facilities ivity. Should sent time not In violation of remodeling or factory. erable repair rough remodeled or ing buildings including be done under adequate for and remodeling modeling or replaced; in- needed. Accom-Should be meat coolsanitary laws. replacing competent fire emergen-Being supplereplacing. cluding equip-lishments fairly Recommendation: remodeled ling space supervision cies. Present Generally in ment. mented by consatisfactory con- required. and conusing approvsystem should 1. That adestruction of new poor consideration sidering condi quate sewage ed equipment be used for given to power plant. dition and tions. treatment plant and methods. domestic use complete contains only. New wells be constructed. equipment temperature should be decontrol. that should veloped for irbe condemned rigation. Preand replaced. sent storage tank should be cleaned and better protected.

Minustrial work- shop for the shop for the shift a day. Commendation: Complete mateurization quipment be in- stalled. Now milk comes building to built conven- contly located to milking barn: Deprind on Monte to like ta dey. Composed based of Small incine return facilities to milking barn: Deprind on Monte to hogs. Trash ado- quitely disposed of Small incine return facilities to milking barn: Deprind on Monte to hogs. Trash ado- quitely disposed of Small incine return facilities to milking barn: Deprind on Monte to hogs. Trash ado- quitely disposed of Small incine return facilities to small in size. Recommend- actions: Deprind on Monte to Hinor activity. Program should be made through oxpanded. Fire-proof  Well managed ways to small in size. Recommend- actions: Deprind on Monte to Vident - should Vista Fire Da- be climineted. Program should be made through oxpanded. The managed oxpanded. The managed oxpanded pro- gram.  Well managed oxpanded. The managed oxpanded pro- gram.  Infestation  None  The poof to dys in processing to thoused on promises.  Poor. Improve- Fairly good mate through oxpanded.  The managed oxpanded pro- gram.	D) AIRY	(E) SWIMMING	(F) GARBAGE AND REFUSE DISPOSAL	(G) RODENT AND VERMIN CONTROL	(H) FIRE PREVENTION		(J) RECREATIONAL FACILITIES	GROUNDS	(L) FARMS
infestation  infes	DENVER			Present using					
Garbage fed to hogs. Trash adoquately disposed of Small incinateurization equipment be installed.  Now milk louse building be built conventently located omilking barn.  Dairy barn is n good repair.  Minor activity.  Program should be eliminated.  Depend on Monte vista Fire Department for protection. Most buildings are non-fire proof.  Real fire hazards exist. Too few fire plugs too small in size. Recommendations:  1. Install new water distributing system.  2. Install additional fire plugs for protection.  Size are one partment for protection. Most buildings are non-fire proof.  Real fire hazards exist. Too few fire plugs too small in size. Recommendations:  1. Install new water distributing system.  2. Install additional fire plugs for protection.	hop for the	None	City		Fire-proof	regarding handling of dyes in processing of brooms and of control measures as to broom straw dust and safety	not housed on	Well cared for	None
hogs. Trash adoquately disposed of. Small incinerator should be aliminated.  Complete of. Small incinerator should be provided.  New milk tourse building be built convenently located omilking barn.  Dairy barn is n good repair.  Milk buckets thould be re- laced with mooth heavy sauge buckets of ype casily	OMELAKE			-pdurson sex					
	commendations: Complete asteurization quipment be intalled. New milk ouse building e built conven- ently located o milking barn. Dairy barn is n good repair. Milk buckets hould be re- laced with mooth heavy auge buckets of ype easily	None	hogs. Trash ade- quately disposed of. Small incin- erator should be	evident - should be eliminated.	Vista Fire Department for protection. Most buildings are non-fire proof. Real fire hazards exist. Too few fire plugs too small in size. Recommendations:  1. Install new water distributing system.  2. Install additional fire plugs for pro-	Program should be expanded.	ments can be made through expanded pro-	Fairly good	Well managed

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NAME OF INSTITUTION	TYPE OF HOSPITAL	DOCTORS'	NURSES	REGISTERED	PRACTICAL	PHYSTCAL	FOOD HANDLERS	CHEST	LAB.	KIND AND
		NAMES		IN COLO.		EXAM-	EXAM.	X RAY	TESTS	HON OFTEN
Industrial School for Girls - Morrison. Vine to eighteen years. 150 girls 10 to 21 years of age	Isolation and emergency. Sick girls are removed to Children's, C.G.H and D.G.H. All have tonsillectomy at Children's.	Fraser, M.D. M. Jean Gale, M.D., oculist	Mrs. Martha Umhauer	No.	No	No	No	No	None	Girls S S Cobservat
Industrial School for Boys 800 boys - 10 to 16 years of age.	Isolation and emergency		Mary E. Shockley	No	Yes	No	No.	No	None	Total Park
LDER BOYS-Correctional UENA VISTA Reformatory oys 16 to 25 years 06 boys from 15 to 25 ears of age.	None Building for this purpose has not been equipped. Sick boy removed to D.&R.G. Hospital Salida	Howard David Smith, M.D. Salida Dr. Kelley of Salida, Den- tist, P.T.	None	No	No	No	No	No	No	
Men-Women-Peral CANON CITY Colo. State Peritentiary, 1054 men about 37 women.	General Hospital  1. Medical  2. Surgical*  3. Criminally insane  (20)  4. Tuberculosis  *Surgery is done here con women. Are trans- ferred to room in woman's quarters.  (Refers to Item 2)	eten Christie, M.D. Assistant. On 24 hour call. E. J. Burke,	mate who have ap-	No	Yes	Yes	No .		Yos	16

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ISOLATION
AND ORSERVACION FACILITIES

HOSPITAL SU	RVEY						1									BSERVATIO	N FACILATIES
PTS. CARED.	ADULTS	CHILD- REN 1-16 YEARS	IN- FANTS	AVER- AGE NO. PTS.	PHYSI- CAL EXAM.	CHEST X-RAY	IMMUN. AND VAC.	LAB. TESTS	PERIOD OF ISO- LATION	CORREC- TIVE TRTS.	RE-CHECK ON DE- PARTURE	OF	NO. OF ROOMS FOR PTS.	OF	CAPAC- ITY	ADULT3	CHILD- REN
MORRISON	None	Girls	None	Five	Yes	By State Health Department. Mobile Unit (1944)	Yes	Yes	to to 14 days	Yes	None	6 rooms 2 baths	2 rooms 1 ward	8	Single rooms (2) (Isol)	None	Girls 5 (Observation
GOLDEN	None	Boys	None	12	Yes	By State Health Depart- ment. Mobile Unit (1944)	Yes	Health	10 days to 14 days	Limi- ted	None	12 2 baths	6 rooms 2 baths	25	Single room	None	Boys 12 (Observation
BUENA VISTA	Boys 16-25 Aver- ages about 117	O COSS	None	None	Yes	None		State Health Depart- ment	None	Limi- ted	No	Mod- orn Build- ing not Equip- ped				and the	
CANON CITY	40 Cap acity Crimin ally i sane ( arate	1-	ep-	32 daily	Yes	Yes	Posantil Harris	State Health Depart- ment	Yes	Yes			6 rooms & wards	40	6 rooms	32 daily	None

Needed Equipment or Improvements.	HOSPITAL SURVEY
MORRISON	<ol> <li>Help should have physical examinations.</li> <li>Re-check should be made on departure of girl.</li> <li>Hospital facilities should be enlarged.</li> <li>Fire hazards such as are present in the first floor seclusion quarters for incoming girls should be removed. (All are kept in under lock and key).</li> </ol>
GOLDEN	1. Physical examination for help.  2. Repair of lineleum in bath and shower rooms.  3. Isolation period of at least twenty-one days for all new inmates. This period should include adaptability tests and mental tests. Medical and dental examinations, treatments and immunizations.
BUENA VISTA	<ol> <li>Complete hospital facilities with possible exception of major surgery.</li> <li>R. N. in charge of hospital.</li> <li>Complete physical examinations including wasserman, chest x-ray, laboratory tests on inmates.</li> <li>Corrective treatments.</li> <li>Re-check on departure.</li> <li>Isolation period of at least twenty-one days for all new inmates. This period should include adaptability tests, mental tosts, and immunizations. Medical and dental examinations and treatments.</li> </ol>
CANON CITY	1. Full time doctor. 2. Full time R. N. service - registered male nurses if possible.

Parent Sal Line 1

HOSPITAL SURVEY		•							11 0	
NAME: OF INSTITUTION	TYPE OF HOSPITAL	DOUT OR'S NAME	NURSES	REG. IN COLO.	PRACTICAL		FOOD HAND	STA:	TO DESCRIPTION OF THE PARTY OF	Carlon Carlon
REHABILITATION  School for the Deaf and Blind. Colorado Springs 200 children - Majority are boys.	Infirmary and Is- olation. (Dispensary is maintained here)	J. H. Brown, M.D. J. H. Stine, M.D. D. A. Vanderhoof, M. D. George W. Bancroft, M. D.	one	One	One	No	No	None	None	KIND AID HOW OFTEN
REHABILITATION  Industrial work  Shop for Blind Denver 1900 blind in the State. Small per- centage served here.	None This workshop is to foster em- ployment oppor- tunities for blind persons.	None	None	None	None					
AGED  Soldiers and Sailors Home  Homelake (Service men of fifty years or more) Approx. 140 people sexes are equally divided.	(Dispensary and Inficmary) (Patients are removed to Monte Vista Hospital	Burkhard,	Three nurses (cight hour shift)	Мо		Yes-nurses and cook. None given employees.	Yes	loubtful	Blood tests	Yearly

HOSPITAL SU PTS. CARED FOR	RVEY	CHILD- REN 1-16 yrs.	IN- FANTS		PHYSICAL EX.OF PTs.	CHEST A-RAY	IMMUNIZ_ ATIONS &	LAD.	OF IS-	IVE	OF	ROOMS	OF	ISOL- ATION FACIL'S	ADULTS	CHILD- REN
Rehabilit- ation	None	Yes	None	Five	Yes	None	Yes			Yes	9 - 4 baths	6 wards	30	Annex to main	None	All
School for Deaf & Blind  Inmates from school		No.	Jenson St.										con- tag- ious dis- eases			
Rehabili- tation Industrial workshop for	All			None												
blind Denver											American de la constante de la	engles of the second se				
Soldiers and Sailors Home. Homelake Inmates of Home	Women must be fifty unless she comes to care for husband	None	None	9							20	13	35	Single rooms	all	None 20

## HOSPITAL SURVEY

Needed Equipment or Improvements	Station Diller Jones, B.D.   One No	Ten Sans lane	
Rehabilitation School for Deaf	Recommendations:-		
and Blind	1. None made.		
Rehabilitation Industrial Workshop for Blind None Noted	1. None made.		
Aged Soldiers & Sailors Home Homelake.	1. Linoleum on bedroom floors. 2. A form of bed pan sterilization such as AeroFlush.	None None	

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HOSPITAL SURVEY		DOCTORS		REGISTERED	PRACTIC-	LUNOT VI	FOOD	aucom	T ADOL (MODE	WIND AND	
NAME OF INSTITUTION	TYPE OF HOSPITAL	NAME		IN COLORADO	AL	PHYSICAL EXAM.	HANDLER'S EXAM.	CHEST X-RAY	LABORATORY TEST	KIND AND HOW OFTEN	ham.
Home for Dep- endent Children. 220 Children 133 Male 87 Female Birth to 16 years	Isolation A sick child is sent to Steele's and Child- ren's.	Wiley Jones, M.D. Other staff Drs. on call. George B. Packard M. D. Surgeon Rex Murphy, M.D. Eye-Ear-Nose and Throat Atha Thomas, M.D. Orthopedic Surgeon R. W. Danielson M. D. Ophthal- mologist Dentists - Drs. Phillips (3) P.T. (Part-Time)	One Mrs. Grace Babrack	No	Yes	None	None	No	None	None	
Ridge - Home and Training School for Mental De- fectives. (Idiots-Imbeciles) 325 Inmates About 50% are male	None (Infirmary has 53 beds) A sick child is removed to C.G.H.	Howard A. La- Moure, M.D.	Women attend- ants	No	Yes	None	None	None	None	None	
Grand Junction State Home and Training School for Mental Defect- ives. 430 Inmates All ages	General 1. Isolation 2. Surgical 3. Medical	B. L. Jefferson, M. D. R. F. Gilmore, D.D.S. P.T.	Mrs. Helen D Cover, R. N.	Yes	Grad- uates. Two not licensed to pra- ctice nu sing in State.Tw practica	r-		None	Yes	Kahn	22

HOSPITAL SURVEY PTS. CARED FOR HOME FOR DEP- ENDENT CHILD- REN		CHILD- REN 1-16 YRS.	IN- FANTS	QF:	PHY- SICAL EX.	CHEST X-RAY	IMMUNIZ- ATION & VAC.	LAB.	PERIOD OF IS- DLATION		RE-CHECK ON DE- PARTURE	OF'	NO.OF ROOMS FOR PTS.	OF	ISOLAT- ION FACIL'S.		CHILD-
1. Incoming children for 10 days. 2. Medical cases. Children are removed to Steele's & Children's if actually ill.	None	5 the daily	25 has- sinets and cribs separa- te. Bldg. (Nursery) Over- crowded	5 in main hospit- al	No	No		Diph-  ther-  ia  cul-  ture  only.		Yes - see staff on call.	None	7-2 porch es.	5-4 are wards.	18	One sing- le room. Four wards.	None	All
Children - Mental RIDGE		About 53 in in-firmary.	None	STORE STATE	Yes	No	Yes	Diph- ther- ia cult- ures.		None	to adult-			53	Single room.	Yes	Ies
Children - Mental  GRAND JUNCTION	Daily pop- ulat- ion 7/21/44 About 430	34 babies 3 to 7 years.	None		Yes	No	Yes		10 to 14 days	Yes	Seldomma leave	build	equipped y. Drug		Private rooms - segregat wards.	Childre to adul hood. Seldom leave.	

## INSTITUTION

#### RECOMMENDATIONS:

State Home for Dependent Children.

- 1. That dispensary be completed.
- 2. That new well equipped nursery be provided.
- 3. Physical examinations of hospital and nursery employees including:(1) Blood Tests (2) Lab. Tests and (3) Chest -ray.
- 4. Physical examinations of children including:-
- (1) Immunizations (2) Lab. tests

  5/ It is recommended that all new admissions are segregated and that preliminary investigations be made to aid in proper placement of the
  children. (Twenty-one day segregation period)
- 6. de-check on departure.
- 7. Registered nurse in nursery and isolation hospital.

RIDGE

- 1. Provide hospital facilities are grounds also professional personnel for the same.
- 2. Provide for the hiring of sufficient help.
- 3. Make immediate provisions for the mental defectives now waiting for admissions.
- This may be done by use of all available space and an additional building 4. Physical examinations of nurses and help.

Children
Mentally Deficient Grand
Junction

(None made)

1. (Facilities for the care of babies from 3 years to 7 years has been suggested by Dr. Jefferson).

- 1. Either at Ridge or Grand Junction provisions should be made on a state wide basis for:
  - (a) Epileptic children (School)
  - (b) Epileptic adults (Home)

It is recommended that the two not be housed together.

INSTITUTION	DEMTISTS					NO. OF HAND		DENTISTS	HMERGENCY		MALGRAM	EXTRACTIONS	PROPHYLAXIS
	EMPLOYED	No. of Concession, Name and Address of Concession, Name and Ad	Arc or decimentacions enterented to	WATER	MENT	INSTRUMENTS	HELP	PAY	CASES	OF WORK	FILLINGS	AND DENTURES	1
Home for Dep- endent Child- ren - Denver	Three	Satur- day morning	Drs. offices	Yes			No	Fee basis	Barrier .	Fee bas-	unigal. Sueri er Segnise	mandations	
Home and Training School for Mental De- fectives-Ridge	Dentists in Arvada	Used for emergen- cies only	None	a obac,	None	None	par cil	Fee basis when emer- gency arises	Arvada for dental care	normanded	hat one A	ité Dépertaint le detarman a	(Charge break
Home and atime Training School for Mental De- fectives Grand Junction	One dentist is employed	One-half day once a month	Yes	Yes	Ade- quate	Apparently adequate	None	\$25 for \$ day. Approx- imately once a mon	th		tiare abou	A his and report	THE PART OF THE PARTY OF THE PA
Industrial School for Girls, Morrison		per.	Inade- quate. Bedrm. is converted dental cl	into	Poor	parelli sein	A Uso	Fee per operation basis	COLUMN	Fee per operatio basis			
Industrial School for Boys-Golden	Two	on al-	Ade- quate Fridays	Yes	Ade- quate	Very few	One assists dentist	\$5 for ½ da. work	Handled by dentists in private		dentistry at costs. le.	, such as gold Immates pay	bridge work if they
	One den- tist from Salida	½ day per week	Yes	Yes	Old and ob- solete		Yes	\$50 per month	Offices	are and i	ato yest	Carriage 17	State of the state
Canon City State Penitentiary	1 Dentist from Canon City	Two one half das each week		Yes	Ade- quate Have 18	b.	mates do	\$100 per month and all lab	. work.		Yes	Yes	Yes-when inmates leave
Pueblo, Colo. State Hospital	Two	Full-	Yes- no lab.	Yes	Ade-	Adequate	No	Salary	Emergency care only	a unuble	cko percu		To of their a year
SCHool for the Deaf and Blind Colo. Springs	None		Ade- quate		Ade-	Practically None			(1), 300	Parents are bill for work			At beginning of school year.
Workshop for	Doubtful i	institutio	nal denta	care i	s neces	sary - No dent	al progra	m is in ope	ration	A SAME	c better to		Suppress Name
Blind, Denver Soldiers and ailors Home Homelake	Dentist in Monte Vista	None	None		None	None	None	Immates pay own bills			Inmates pa	У	°C 25

Institution	Institutional Recommendations:-
Home for Dependent Children	Properly equipped dental clinic should be established in the State Home.
Ridge Home and Training School for Mental Defectives	It is strongly recommended that a properly equipped dental clinic be established at the Home.
Home and Trairing School for Mertal Defectives, Grand Junction	To provide for the immates of this institution would take at least one-half of a dentist's time.
Industrial School for Girls, Morrison	Properly equipped dental clinic should be established in the Industrial School for Girls.
Industrial School for Boys, Golden	That more hand instruments be made available at clinic.
Buena Vista State Reformatory	That dentist be hired more days per week.  That a modern properly equipped dental clinic be installed.
Canon City State	Dental care provided is adequate.
Pueblo, Colorado State Hospital	Three additional full-time dentists with necessary equipment would be needed to provide proper care for all immates.  That a complete dental laboratory be installed.
School for the Deaf and Blind	None made.
Workshop for Blind	Doubtful if institutional dental care is necessary.
Soldiers and Sailors Home	None made.

# General Recommendations Concerning Dental Service in State Institutions

- (1). Recommended that one State Department (Colorado Division of Public Health) be responsible for determining general dental policies and that this department provide all institutions with consultation and assistance in developing and supervising the programs for dental health.
- (2). Full-time dentists should be employed as far as practicable and where a dentist serves two or more institutions, these institutions should be grouped near enough together so that traveling expenses will be small. For example, the Girls and Boys Industrial Schools, Home for Dependent Children, and Home for Mental Defectives, Ridge, Colorado, might all combine to employ a full time dentist.
- (3). A minimum and maximum salary should be established according to the experience and ability of the dentist with provision that where the dentist has not had previous experience that he be started at minimum and have yearly increase, if deserving, until maximum is reached.
- (4). A standardized list of equipment and supplies for dental use in state institutions should be used. This would make the ordering of dental supplies much more simple, facilitate the handling of the order and enable the purchasing department to effect a very considerable saving of expense in purchasing dental supplies.
- (5). An inventory of equipment and supplies should be made when a dentist enters or leaves the employ of a state institution and from time to time, as seems necessary, and a copy of this inventory kept in the superintendent's or warden's office.

The state of the s	NSURVEI		HOME FOR DEPENDENT CHILD	THE DESIGNATION OF THE PERSON		
CIRALIDID AT	DUVOTOAT DI SHIM	OBSERVATION	8		KE	COMMENDATIONS:
	PHYSICAL PLANT AND EQUIPMENT	PERSONNEL RESPONSIBLE FOR FOOD SERVICE	ECOD GUDDI V	FOOD SERVICE,		
DITUALION	HIND ENGLIMENT	TON FOOD BERVICE	FOOD SUPPLY	SELECTION AND VALUE	-	
220 Children 133 Males Birth to 16 years. Children are in lower age range. They are housed in separate units but eat in a central dining room. Junior and Senior High School students buy lunch at school.	buildings. lst floor contains: l. Kitchen 2. Employee's dining room. Dining rooms were clean, attractive and in good order. (a) Linens were used on tab- les.	Trained persons lacking.  Menus were planned by cook and women in charge of purchasing.  Preparation was super- vised by head cook. Pur- chasing was done under supervision of the superintendent. Three full time cooks. Ten girls helped in kitchen.	Distribution. Vegetables were raised in the garden. Some vegetables were stored or canned for winter use. 100 gallon of cherries were canned from orchard. 125 - 150 gallons of tomatoes were canned.	Matron serves food at each table. Second helping are available. Food for some children was cooked in main kitchen and carried to the residence.  In one residence, children washed own dishes in the lavatory.  The diets were very low in green and yellow vegetables, citrus fruits and tomatoes and eggs. They were marginal in "other" fruits and vegetables and meats. Milk was the only protective food served in adequate amounts.  Diet was deficient in most essential nutrients. Greatest deficiencies were in Vitamins "A" and "C".	3. 4. 5. 6. 7. B. 9. D.	That a full - time trained dietitian be employed to take charge of the food service.  That dark green or yellow vegetables be included in the diet daily.  That citrus fruits, fresh fruits in season or tomatoes appear in the diet daily.  That increased emphasis be placed on including eggs in the diet.  That sufficient funds be alloted from the general maintenance budget to provide foed of the right quality in adequate amounts, particularly during season when fresh garden stuff is not available.  That more refrigeration space be provided.  That equipment needed for more efficient kitchen operation be obtained as needed.  That pressure cookers be provided for canning.  That if food is served in nearby buildings provisions are made to keep it hot.  That dishes used in service outside dining room be properly wa shed. 27

		OBSERVATION	N S		RECOMMENDATIONS:-
GENERAL SITUATION	PHYSICAL PLANT	PERSONNEL RESPONSIBLE		FOOD SERVICE	
	AND EQUIPMENT	FOR FOOD SERVICE		SELECTION AND VALUE	
325 inmates. Age	Storerooms and re-	No trained person was	Milk obtained from		1. That a full-time trained dietitian be employed
range is wide - most	frigeration is in-	in charge of food	own dairy herd.	noted between food	to take charge of food service.
wards are children.	conveniently ar-	service.	Eggs and meat, ex-		2. That citrus fruits, tomatoes or raw cabbage be
About one half are	ranged in a passage	Assistant to super-	cept pork, most of	and that served the	served to the children daily.
male.	way between dining	intendent and the	the fruit and bread	children	3. That more dark green and yellow vegetables be
Meals are served	rooms and kitchen.	cook were respons-	were purchased.	Food served to chil-	added to the diet of the children.
family style in two	Food must be carried	ible for the plan-	Some vegetables		4. That raw fruits and vegetables in addition
main dining rooms -	through the kitchen	ning of the menus	were supplied by	uninteresting and	to lettuce and the foods named above be served
one for boys, one	into storage space	and the preparation	own gardens.	not well prepared.	when in season.
for girls.	and then back again.	of the food.	No vegetables and	Lack of color was	5. That the amounts of eggs and meac in diet be
A separate dining	Dishwasher was in	Steward does pur-	fruits were canned.	noticeable	increased to the recommended amounts.
room is used for	separate room.	chasing. Five cooks	Small quantities	Vegetables appeared	6. That rearrangement of the kitchen and storage
employees.	Equipment:	were employed and	of pickles and jam	to be overcocked.	rooms be made to insure more convenient and ef-
		the children assist-	were preserved.	Meat and potato	ficient operation of the food service.
	efficient operation.	ed.		dish was unappetiz-	7. That a regular plan for the replacement of
	2. Old steam ket-	to the the track distant	Laboration of the control of the con	ing. Milk was serv-	worn out and inefficient equipment and the pur-
	tles.				chase of new equipment be instituted.
	3. Stove was a coal	Sent Water State		Some children re-	B. That special attention be given to periodic
	range.	Lipermounts Ets	late the come I make	ceived only bread	checks of food served, so that diet of children
	4. Little modern	!			will not continue to be grossly lacking in
	equipment was in			,	essential food elements.
	evidence.			green and yellow	9. That recommended methods of food preparation
	The River Land				be used in preparing vegetables.
		The second secon			10. That more attention be given to the esthetic
	A STATE OF THE STA				aspects of the food served the children.
					11. That attention be called to the General
					Recommendations made and that steps be taken to
		1			put them into effect.
				Diets were thus	
		Lares a		markedly lacking in	
				Vitamins C & A and	
				probably iron. The	
				diet of employees re-	
				vealed no such do-	
				ficiencies.	
					28

		BSERVATIONS			RECOMMENDATIONS
GENERAL SITUATION	PHYSICAL PLANT AND EQUIPMENT	PERSONNEL RESPONS- IBLE FOR FOOD SERVICE	FOOD SUPPLY	FOOD SERVICE SELECTION AND VALUE	
	made of available space and operation is carried out efficiently. Refrigeration space was small. Basement contained ice plant, cool rooms for milk and fresh vegetables. Basement storage rooms were incorveniently	charge of kitchen. She has had no formal training in nutrition.  1. Plans menus. 2. Supervises food preparation and canning. 3. Trains kitchen employees and helpers. The superintendent took an active interest in the food problems. Personnel want plant improvements.	peaches and pears were canned in large quantities. Smaller quantities of other fruits were canned. Own dairy herd supplies milk. Part of eggs and all pork is home produced. Other foods are	andards in some re- figreen and yellow led and indicated a ln A. The meals a foods yielding litrus fruit. Meat	1. That a new building providing for kitchen, dining room, and adequate food storage be constructed when conditions allow.  2. That the consulting services of a trained dietitian be made available to the institution under its present system of operation.  3. That eventually this institution follow the policy recommended for all state institutions housing children: that a trained dietitian be placed in charge of the food service.  4. That facilities and labor needed to can fruits and vegetables efficiently be made available as soon as possible.  5. That increased emphasis be placed upon the daily inclusion of citrus fruits, green and yellow vegetables and possibly meat and eggs in order that the diet served to the inmates meet standards recommended for an adequate diet.
					29

GENERAL SITUATION 150 girls ranging in ages from ten to twenty-one. Girls live in large lodges each of which maintains its own kitchen and dining room. The girls learn to plan, prepare, and serve meals by assisting in the kitchen for three months of the year. extremely clean.

PHYSICAL PLANT AND EQUIPMENT Equipment varies from house to chens were large and contained a moderate sized refrigerator and usual types of other equipment. No pressure cookers were available. Kitchens were Dining rooms were neat and tables were attractively set. Room in basement was used for canned goods and other stored products. Requisition system from large storeroom is used.

PERSONNEL RESPONSIBLE FOOD FOR FOOD SERVICE Cook in each house is responsible for food house. Most kit- service. Meals were planned, prepared and served by some of the girls of the house stored and some under the cook's direction.

SUPPLY Garden supplies vegatables except potatoes. Some vegatables were canned and were dried. A pressure cooker was not used to can non-acid vegatables. Spoilage of some canned produce was observed. Milk was supplied by their own dairy. Meat, eggs, butter and cereals were purchased. Some eggs were received from the office of distribution.

FOOD SERVICE SELECTION AND VALUE

Food was served family house to house. Amounts of foods, such as meat and eggs, distributed to each house, were approx. the same. Use made of raw foods depend upon the person in charge of each kitchen. Food which appeared on tables was attractive. Comparison of menus

with accepted standard menus revealed that adequate amounts of milk, eggs and cereal were served. Liberal amounts of fruits and vegatables were served. Number of dark green or yellow vegatables included were low. Tomatoes or raw cabbage were served only about three times weekly. No citrus fruit appeared in menu, Amount of meat served was somewhat low.

RECOMMENDATIONS:-

1. That some central supervision of the food style. Menus vary from service by a trained person be instituted.

An experienced home-economics teacher in the school might be given this responsibility.

2. That business-like methods of operation of the food service be adapted.

3. That recommended methods of food preservation be used.

4. That sufficient cold storage space be provided so that perishable foods can be purchased in economical quantities.

5. That provisions be made for the inclusion of adequate amounts of vitamin "A" and 'S" in the diet through the use of recommended amounts of:

(1) Dark green or yellow vegatables.

(2) Citrus fruits or tomatoes. 6. That adequate amounts of meat be included in the menus daily.

7. That attention be called to the general Recommendations made and that steps be taken to put them into effect.

OBSERVATIONS  RECOMMENDATIONS:-									
GENERAL SITUATION	PHYSICAL PLANT AND EQUIPMENT	PERSONNEL RESPONSIBLE FOR FOOD SERVICE	FOOD SUPPLY	FOOD SERVICE SELECTION AND VALUE					
Training school for boys from six to sixteen. There were approxi- mately 180 boys from ten to sixteen years of age. Two visits were made. First visit condi- tions were very un- sanitary. Second visit found conditions some- what improved, but they were still very bad. Observations here- in describe second visit.  heavy. One side of buildi mechanical dishwas ly unsanitary. Fl garbage cans were door was screened, Ample equipment wa Three large refrig was not up to stan	Separate building for food services.  Large airy dining room.  Table and chairs are old, unsanitary and unsightly.  Tile floor is cracked and none too clean.  Numerous flies have excess to food.  Dishes are cracked and chipped. Some were not clean.  Silverware is ben Dented, pitted al riate size is use Mugs chipped, with the and a large bak cors were dirty, gas sour and flies were but flies entered a poorly arranged a craters were in cordards.	Former dining room manager was acting as cook and kitchen supervisor. She plans menus. Superintendent directs purchasing in cooperation with State Purchasing Agent. Baker and dining room stewardess were employed. Eight boys assist in kitchen, twelve to Fourteen in the dining room.  t, broken and dirty. uminum ware of inappropad for serving some foods. hout handles, and extra itchen, serving room with ery. Kitchen was extreme rage was in evidence, numerous. Kitchen when door was opened. nd in poor condition. mer, order in these	Milk was supplied by own dairy herd. Some butter was made at school. A garden supplied potatoes and other vegetables. Cherries and apples are grown. Meat, except for some pork, eggs and staple products, were purchased. Cabbage was made into kraut. Home grown vegeta- bles and cherries were canned in the cannery. Many of these pro- ducts spoiled. The supply of home canned and stored vegetables did not carry over until the next season. Bread is home-made 80 Pound and a-hall loaves are used daily. Part of the bread was whole-wheat.	Food was served cafeteria style. Most of the food was served with the fingers. Salt on the table was from an open saucer, left on table from one meal to the next. No utensil used for serving, children dipped in fingers or food. If tabulation of foods served for four days, according to the mini- mum menu, standards showed that the menu was lacking in some respects. Butter was served three times a week only. Dark green and yellow vegetables were served infrequently Diets were low in eggs. Amounts of citrus fruit and tomato did not meet recommendations. Second servings were not allow- ed except on milk. Cook reported appetites were poor. She gave racial for conditions probably true	1. That simple measures of cleanliness be instituted and scrupulously followed.  2. That a Full-time, trained dietitian be employed.  3. That a plan for the replacement of worn-out equipment be made, and that replacement be planned as rapidly as possible.  4. That butter or enriched fat be served at least twice a day.  5. That dark green or yellow vegetables be served daily.  6. That special planning be made for the inclusion of other food groups, such as citrus fruits, tomatoes, raw cabbage and eggs, which are apt to be low in the diet.  7. That a hot appetizing main dish be served as a basis of the evening meal.  8. That food be prepared and cooked the shortest time possible before serving.  9. That the cannery be made sanitary, useful and efficient.  10. That another cook be hired.  11. That plans be made for the purchase of a stainless steel steam table for the service of the food.  12. That attention be called to theGeneral Recommendations made and that steps be taken to put them into effect.  2. Was not clean or well cared for. Stairs leaded for and cannery had no screens. Food was				

	OBSER	RECOMMENDATIONS:-			
GENERAL	PHYSICAL PLANT	PERSONNEL RESPONSIBLE	FOOD STEEDS V	FOOD SERVICE	
condition as a result of delay in local jails.	Stainless steel tables, benches, and stainless steel serving tables were in use. Tables were thor- oughly cleaned and scrubbed after each meal in a very effi cient manner. Doors were not screened. Spoons and heavy china were used. Knives and forks and stainless steel sectional trays were to be order- ed. Off the dining room was a large kitchen with relatively old equipment. The supply of steam jacketed kettles was inadequate. Refrigeration was limited to a small ice refrigerator. Milk was kept in a cold water jacket- ed kettle. Small bakery was in room off kitchen. A large refriger- ator for meats was located in a separ- ate building. Staples and canned	employee in the kitchen. 8 to 11 inmates work in kitchen. Steward was making a conscientious effort to raise the food standards. He had no information as to foods available from store-room or garden. Steps were being taken to correct this situation. (cont'd from Col. 2) foods are stored here. Root cellar does not keep fresh vegetables well.	from own dairy herd.  Vegetables were raised in the garden. Some lettuce was stored.  Little cabbage and no tomatoes were grown due to existing altitude.  Meats and eggs were mainly home produced.  Fruit is sometimes obtained from cannery at Canon City or by truck from the West.  Beets were pickled and some other foods were canned in small amounts. Beans were being canned in borrowed pressure cooker, but only small quantities could be handled.	cafeteria style. Food was cocked too far in advance. An analysis of the menus for a week according to mini- mum menu standards showed that citrus fruits, raw cabbage and tomatoes ex- cept in mixtures were almost com- pletely absent from the diet. Few dark green and yellow vege- tables were served. Quantities of meat served were too small. Butter and enrich- ed fats were pres- ent in diet only once a week. Approx. 2,000 lbs. of milk per month. were used. This	1. That provisions be made for inclusion of Vitamin C in the meals served. (Citrus fruits, tomstoes both canned and fresh should be served.  2. More dark green and yellow vegetables should be included in diet. These foods provide Vitamin A.  3. That more butter or enriched fat and meat be included in diet.  4. That long holding periods for cooked foods be avoided.  5. That provisions be made for more refrigeration space in the kitchen.  6. That adequate equipment for canning be provided.  7. That adequate provisions for storage of vegetables be provided.  8. That provisions be made for the purchase of new small equipment and the replacement of worn-out equipment.

GENERAL

SITUATION Inmates include about 1054 men and 37 women. from the main kitchen which feeds men was observed.

PHYSICAL PLANT AND EQUIPMENT Large dining room with two double units for cafeteria service in the center is The food service used for feeding male prisoners. Separate dining rooms for women, slso for inmates who work on farm. Worn aluminum plates, bowls kitchen. and silverware were used. many aluminum bowls were dented and pitted. A series of rooms housing equipment for cooking, baking, dish washing and vegetable preparation joins the dining room. Kitchen is fairly well equipped. It lacks refrigeration space for meats and left-overs. Storehouse containing meat, cereals and canned goods is located some distance from the kitchen. Cannery was not observed.

OBSERVATIONS

buying

PERSONNEL RESPONSIBLE FOOD FOR FOOD SERVICE A steward and his assistant were the only full-time help. Twenty inmates assisted. Steward was responsible for menus and supervision of Steward, storekeeper and warden cooperated on the

SUPPLY Garden and orchard supplied vegetables and fruits. Some are canned at institution. Own dairy herd supplies milk. Cereals and other staples were purchased. Breed was baked at institution. Beef was slaugh- lacking. tered there.

FOOD SERVICE SELECTION AND VALUE Five of the eight essen-

tial food groups were low according to accepted standards.

Menus/seemed to be completely lacking in eggs. Large quantity of beans consumed would supplement nutrients to some extent. No citrus fruits appeared on menu. Amounts of tomatoes served were very small. Thus vitamin C was

Green and yellow vegetables were served only half as frequently as recommended. which indicates a lack of vitamin A.

Milk was slightly low. Butter or enriched fat was served infrequently.

1. That a qualified trained dietitian be placed in charge of the food service.

2. That a year around adequate diet be provided and thus eliminate the deficiencies of food nutrients apparent in the present diet.

3. That some refrigeration space other than that now available for dairy products be provided in the kitchen. 4. That some plan for the replacement

of worn out equipment be followed.

GENERAL SITUATION Serves 4,500 adult patients of both sexes. These patients are housed and scattered over a wide area.

PHYSICAL PLANT AND EQUIPMENT Nine kitchens and twenty-nine dining rooms with all types of food services fed in separate units are housed in buildings built in various years. Kitchens and dining rooms in buildings built during last six years are modern in arrangement and contain up-to-date mechanical equipment. New food service is fitted with cafeteria style service:

(1) Saves Labor

(2) Saves Time (3) Saves Food One new main large kitchen serves a number of dining rooms in other bldg. by means of a train of electrically heated units from which food can be directly served.

Modern stainless steel equipment was used in the newer kitchens and dining rooms

(See report on sanitation and refrigeraticn)

PERSONNEL RESPONSIBLE FOR FOOD SERVICE Supervision by a chief dietitian and six assistant dietitians.

OBSERVATIONS

Six student dietitians with a college degree in food and nutrition or institutional management also assist in supervising food service as part of their training.

Each kitchen is staffed by employed cooks and patient help

Business like methods seem to be employed in the operation of the food service.

Menus are planned and food is prepared under the directions of the chief dietitian.

Superintendent, storekeeper and state purchasing agent closely cooperate in purchasing food.

Cannery is not under supervision of the dietitian.

FOOD SUPPLY

Gardens, dairy herds and chickens provide much of the food supply. A small part existing conditions. of meat supply is home produced.

All breads are baked and a small cannery is maintained was hot, appetizon the grounds.

Other foods are purchased.

FOOD SERVICE SELECTION AND VALUE

Impression was that best possible meals were provided under

Meals appeared excellent in nutritive values and appearance. Food ing and served in liberal quantities.

Second servings were given except for special items such as butter.

Analysis of week's menus showed a slight deficiency in citrus fruits, tomatoes and eggs. Doubtful that diet was usually deficient in eggs.

Only institution in state serving liberal amounts of dark green and yellow vegetables.

1. That the hospital continue the excel

lent food service now in operation. 2. That the general plan for gradual replacement of older kitchens with modern units, such as those in operation in some of the newer buildings, be followed.

3. That provisions be made for the improvement, enlargement or replacement of the diet kitchen as soon as possible;

4. That more citrus fruits be included in the diet particularly during seasons when raw cabbage and tomatoes are not plentiful.

5. That attention be called to the General Recommendations made and that steps be taken to put them into effect.

	OBSERVATION	IS			RECOMMENDATIONS
/ GENERAL	PHYSICAL PLANT	PERSONNEL RESPONSIBLE	FOOD	FOOD SERVICE	William Co.
SITUATION	& EQUIPMENT	FOR FOOD SERVICE	SUPPLY	SELECTION & VALUE	1
A state-supported school, not a custodial institution, which operates only during the school year. There are about 200 children, the majority boys. Pleasant atmosphere prevailed. Premises showed care.	taining a dishwasher, warming cabinets for dishes, as well as captice of food. Kitched excellent condition. Refrigerators (4) were ing room, and outside were used for milk, movers respectively. Well equipped bakery Storage room for star freezer were located.	help was used for:  1. Service 2. Dishwashing Part of the training of children is to help clean tables. Purchas- ing is done by staff in cooperation with the st	except jam. Bread was baked in own bakery-of high quality. Other foods were purchased.  ate  ser- in ser v- ers eft- dition.  te peeler and ice creatation seemed quest	conduct at meal time. Tabulations of foods served children for a week showed a lack of green and yellow vegetables. This indicates a lack of Vitamin A. Employees were given a few more green and yellow vegetables but their supply was still inadequate. Intake of citrus fruits and tomatoes the main sources of Vitamin C were low. Eggs were limited. All desired milk was served. Butter twice a day. Other vegetables and meats seemed adequate. Light recess lunch served, a commendable feature. Food was being	1. That a full-time trained dietitian be added to staff.  2. That dark green or yellow vegetables be included in the diet daily.  3. That more citrus fruits and tomatoes be included in the diet, especially when fresh fruits are out of season.  4. That the evening meal be improved with respect to nutritive value and appetite appeal.  5. That methods of preparation of foods recommended to prevent undue loss of nutrients be followed, especially in regard to vegetables.  6. That attention be called to the General Recommendations made and that steps be taken to put them into effect.

# GENERAL SITUATION Houses war veterans and the wives and widows of war veterans. fortyeight to seventyfive years old. Approx. 140 people equally divided between sexes, live at institution in

barracks or small

cottages.

### PHYSICAL PLANT AND EQUIPMENT

Two dining rooms, and a smaller room for serving employees. All were clean and orderly.

No linens were used. table tops were in good condition.

China was heavy and in good condition.

Kitchen was large and orderly.

General appearance and cleanliness was average.

- (1) Coal range
- (2) Mechanical dishwasher.
- (3) A few other mechanical aids. Cooking utensils

were old, worn and difficult to keep clean -especially true of baking pans.

(See sanitation report on refrigeration).

A room containing baking equipment had been used for canning.

A large potato cellar and a moderate sized storage cellar for vegetables were available.

Store house on grounds contained onions, homecanned products (not in

## PERSONNEL RESPONSIBLE FOR FOOD SERVICE

OBSERVATIONS

Commander and the acting Quartermaster, in cooperation with state purchasing agent.

Typist, cook, Quartermaster and Commander collaborated in planning menus.

Cook was responsible for preparation of food. One ass't cook, one dishwasher and three waitresses were employed.

Volunteers helped with vegetable preparation and canning.

No one had special training in nutrition.

### good order).

Small slaughter house also contained room for handling milk. (See sanitation report on milk).

#### FOOD SUPPLY

Seasonal vegetables grown in gardens of Home .

canned by volunteers.

Two-thirds of the home canned vegetables and eggs. spoiled.

to kraut.

No fruit except rhubarb was grown.

Some of this had been canned and all had spoiled. (Statement was made by Commander).

Dairy herd furnished milk. Supply was inadequate at certain times of year. Meat was home produced and slaughtered.

Bread and other foods were purchased.

Family style service. Weeks menus were checked according to standards. Some vegetables are Diet was low in green

SELECTION AND VALUE

FOOD SERVICE

and vellow vegetables. tomatoes, citrus fruits.

Raw fruits and vegetables Cabbage was made in- were served only three times in two weeks.

> Vegetables were overcooked. Both of above point to deficiencies in Vitamin C.

Gravy was used where possible in place of butter. Dark green and yellow vegetables were insufficient. Both of labove show deficiency in Witamin A.

Supply of milk was limited during certain seasons of year. Plenty of meat was served.

- 1. That some competent supervision over food service be instituted.
- :2. That the food program be planned on a year around basis so that there will not be seasonal shortage in certain foods.
- 3. That more citrus fruits, tomatoes, and dark green or yellow vegetables be included in the diet.
- 4. That some temporary provisions be made for the successful canning of needed fruits and vegetables, such as tomatoes, during the war time emergency.
- 5. That a definite plan for the replacement of old and the purchase of new needed equipment be made.
- 6. That attention be called to the General Recommendations made and that steps be taken to put them into effect.

As a result of this investigation, it was noted that sanitary conditions of institutions visited ranged from excellent to poor depending upon the administrative system in force, equipment in use, and the type of personnel employed. The sanitation levels of these institutions varied widely and it was evident that a planned program of sanitation was not in effect, either on an inter-institutional or individual institutional basis. This irregularity was due no doubt to a lack of institutional sanitation standards furnished for their guidance as well as failure to designate a person or persons to be responsible for this phase ofinstitutional operation. A majority of individuals consulted with were not cognizant of the available advisory services offered by the Colorado State Board of Health nor were they aware of the necessity of conforming to the State Health laws and regulations as they pertain to sanitation. It was evident that the services of the State Board of Health were not being used except in infrequent or emergency instances.

Conclusions drawn from a study of these reports indicate a definite and critical need for the following seven basic reforms:

- 1. SANITARY SUPERVISION. Formulation of a uniform set of health and sanitation standards utilizing the services of the State Board of Health for the guidance of each and every institution. These standards to be administered or enforced in each institution by a person designated as an institutional sinitation officer. It is further suggested that a competent person be engaged as an over-all director or coordinator of activities of these institutional sanitation officers, this person to be designated as director of institutional sanitation and be directly responsible to and employed by the Colorado State Board of Health. The functions and duties of this organizational unit would be to formulate and establish uniform sanitary programs and standards to govern each and every institution and to be responsible for the enforcement of same. These standards would control and improve the following phases of institutional operation:
  - a. Sewage and sewerage systems.
  - b. Water supplies.
  - c. Dairies.
  - d. Ford preparation and handling, including canning.
  - e. Heating, ventilation and lighting.
  - f. Plumbing.
  - g. Fire prevention.
  - h. Adequacy of housing facilities.
  - i. Maintenance inspections of buildings and equipment.
  - j. Vermin and rodent control.
  - k. Screening.
  - 1. Mosquito control.
  - m. Garbage and trash removal and disposal.
  - n. Evaluation and control of occupational hazards.
  - c. Routine bacteriological examinations of water, milk and food.
  - p. Environmental sanitation of over-all institution.
- 2. BUILDING & EQUIPMENT. An additional condition existing and in need of correction was the continued use of worn out and outmoded equipment and structures that have served their usefulness and should be replaced. Several buildings and pieces of equipment were found to be over fifty

years of age and should be included in a building or replacement program to be inaugurated. In the writer's opinion, buildin; sor equipment of this vintage are beyond economical repair or remodeling and have deteriorated to the point where they cannot be maintained economically or in a sanitary manner. It is, therefore, urged that a comprehensive building program be considered to modernize all state institutions.

- 3. MAINTENANCE. A further result of this investigation was that, with the exception of the two largest institutions, there was a critical lack of competently trained or adequately paid maintenance and power plant personnel available for the proper maintenance and repair of sewerage disposel systems, water supplies, plumbing and heating installations, power plants and other mechanical equipment. It was noted by this investigator that a good deal of necessary equipment was not being utilized properly or was rapidly deteriorating due to lack of proper care and consequently was being replaced frequently without regard to cost or good engineering practices.
- 4. RECORDED ENGINEERING INFORMATION. Considerable difficulty was encountered in gaining information relative to location or caracities of pipes, valves, sewer lines and other related or integral parts of the utility system. This situation was due directly to the absence of engineering plans showing complete and accurate locations of piping, valves, etc., as well as other pertinent and necessary information. This lack of available and recorded engineering data is distinctly poor engineering practice and results in excessive maintenance cost and repair confusion as well as being a potential hazard to the health and safety of the inmates. It is, therefore, suggested that this condition be thoroughly studied and rectified by specialized engineers.
- 5. SEWAGE DISPOSAL. At the present time there are three state institutions that do not have sewage treatment plants and consequently are adding to the pollution of public water courses in violation of State sanitation laws. These three institutions, namely, the State Penitentiary at Canon City, the State Reformatory at Buena Vista, and the Soldiers and Sailors Home at Monte Vista, should be provided with adequate treatment plants as soon as possible.
- 6. DAIRLES. There is a real necessity for the revemping or remodeling of institutional dairies to meet with the approved standards of the State Board of Health. Inasmuch as milk borne diseases are on the increase, it is recommended that all dairies with the exception of the State Hospital Dairy at Pueblo, which is in compliance at the present time, be remodeled as necessary and provided throughout with approved modern buildings and equipment including pasteurization. All dairy herds should be accredited for Bangs and Tuberculin test, and all dairies should be under competent supervision.
- 7. FIRE PREVENTION. There was a condition prevalent throughout all institutions visited as regards fire prevention and control, that is in need of correction. From observations gained, there was neither adequate equipment available nor personnel trained in fire prevention or control work. Inasmuch as there is a considerable number of old non-fireproof buildings throughout the various institutions, it is imperative that action be promptly taken to remedy this situation.

In conclusion, it is the belief of this investigator that the foregoing suggested recommendations or reforms should be carried out in their entirety in order to permanently correct and thereafter maintain, sanitary levels of all state institutions on a par with progressive standards of other states or national associations. Other lesser sanitary violations noted, would automatically be corrected with the adoption of the above.

The study of the hospital and medical facilities and the personnel employed has brought to attention that there has been no satisfactory policy regarding medical and dental care, hospital standards or services rendered.

The following data will help to clarify this statement:-

- 1. Institutions in which hospital facilities have not been completed (2).
- 2. Institutions where hospital facilities should be enlarged (1).
- 3. Institutions where the dispensary should be completed and equipped (1).
- 4. Institutions where nursery should be rebuilt or enlarged (1).
- 5. Institutions in need of a full-time doctor (1).
- 6. Institutions in need of registered nursing services (5).
- 7. Institutions which lack sufficient help (1).
- 8. Institutions which never give a physical examination to staff (6).
- 9. Institutions which never give a physical examination to inmates (2).
- 10. Institutions not giving corrective treatments to inmates (1).
- 11. Institutions which have no period of segregation for incoming inmates (3).
- 12. Institutional hospitals presenting a real fire hazard (1).
- 13. Institutional hospitals in need of repair work (2).
- 14. Institutional hospitals in need of equipment (1).
- 15. Institutions on which no recommendations were made (3).
- 1. It is obvious from the study that there is a need in the State for a full-time director of mental hygiene. This individual would direct the policies at both the homes and training schools for the mental deficient and help with the placements and classifications of inmates at the correctional institutions at Morrison, Golden and Buena Vista. This person should be employed by the Colorado State Board of Health, and mental health included in the general state-wide public health program.
- 2. There should be a full-time consulting nutritionist employed by the State Board of Health to assist state institutions in maintaining adequate diets from the standpoint of quality as well as quantity.
- 3. There should be registered nursing services especially institutions charged with the care of children and institutions where surgery is performed.
- 4. A routine observation and separation period of a minimum of twenty-one days should be established and maintained in the penal, correctional and mental institutions as well as the Home for Dependent Children. During this time the wards of the state should be properly classified, examined and immunized.
- 5. There should be a school for the epileptic children.
- 6. There should be a home for epileptic adults.
- 7. Serious consideration should be given to a home for senile adults.

The only reason for dental care for immates of state institutions is because of the relation of oral conditions to the health of such immates. The policy, then, of the dental division in a state institution should be the removal and prevention of infection and relief from pain. To this end, as soon as possible after an immate enters the institution he or she should have a thorough dental examination and mouth condition charted on examination form.

A copy of the routh condition as it relates to the health of the immate should be submitted to the medical director or superintendent after this exemination and from time to time as seems advisable.

This should be followed by appointment at the dental infirmary where the first aim should be the removal of infection by relieving and treating gum disease or irritation, and extracting all diseased teeth, including those badly affected by pyorrhea. The next aim should be the prevention of infection by rilling all teeth having cavities including the small pit and fissure cavities where a fine explorer sticks at all. Patients should be instructed as to care of mouth to assist in keeping it free from infection when intelligent enough for them to do so. See that attendants carry out a daily mouth hygiene program for patients.

Amalgam should be used in all posterior teeth where possible. If questionable, use cement lining or fill temporarily with eugenol and zinc oxide. Where amalgam is not practicable in posterior teeth, cement should be used. In anterior teeth, cement or synthetic enamel are indicated. All deep cavities should receive a cement base or cavity lining and all cavities be sterilized with phenol, alcohol, silver deposit or metaphen as indicated before filling and kept dry with cotton rolls or rubber dam while filling.

Gold work and tridge work should not be provided. Root treatment, pulp removal and root canal fillings should not be used except under most favorable conditions in the six anterior teeth only. Pulp removal in these cases should be accomplished by infiltration anesthesia. For all posterior teeth which cannot be filled without devitalization or root treatment, extraction is indicated.

In case all teath are extracted or some restoration is necessary, full or partial plates should be used. Even a single anterior tooth can be replaced satisfactorily by a small plate where necessary.

All immates should be re-examined at least once a year.

The above dentistry is necessary from the standpoint of health and as such the state owes it to its immates of institutions, and it is good economy for the state in maintaining the health of such immates. No additional work should be permitted by the institution dentist and the immate or his relatives or friends should not be permitted to pay the institution for work done in the institution. Patients in institutions should be treated with the same consideration that would be given a private patient. Use local anesthetics whenever indicated.

## SUGGESTED INSTITUTIONAL DENTAL POLICY (Cont'd)

The above dental procedures are indicated in all institutions, but are particularly urgent where there are children. Mouth infection in children is recognized as a menace to the child's health and education. The removal of all mouth infection should be insisted upon in institutions where there are children, and all measures taken to prevent mouth infection.

In cases where immates wish gold, porcelain, bridge or other restorations and are able to pay for such services, it should be done by private dentists outside and then only at the discretion of the superintendent or warden and through his arrangement. This is outside of the field of institutional dental service.

The institution dentist should not be expected to render any dental service while in the clinic to the employed staff of the institution except consultation and emergency treatment or extraction for the relief of pain, and no fee should be charged for this service.

Six hours of actual dental work at the chair is a reasonable day's work for the institution dentist.

I. That the State Board of Health employ a full-time nutritionist who will serve as a consultant to the state institutions, public health and other agencies.

Since the size and nature of some of the state institutions does not warrant the employment of a full-time dietitian the hiring of a state consulting nutritionist would help solve the problem of food service in these institutions.

II. That the larger institutions in the State and those housing children employ full-time qualified dietitians.

There is a great need for assistance in planning meals suitable for maintaining optimum health, and in preparation of food to retain its original nutrients. Assistance is needed in the execution of mechanics, such as large quantity buying, food conservation, food service, and arrangement, care and purchase of equipment necessary to secure the service of appetizing food with the most efficient use of time, labor, and

Dietitians more than save their salaries for institutions because they introduce more efficient operation, and thereby cut down food waste and labor costs and save equipment. Most important would be the more intangible but none the less real gain in health of the state wards.

- III. That there be forehanded planning of the food supply for each year directed toward maintaining an adequate diet for the personnel.
- IV. That the diet of each institution be such that adequate amounts of all essential foods be served.
- V. That each institution, periodically, check its diet against known food standards.
- VI. That each institution be supplied with some food plan, such as a ration allowance, so that well-balanced diets can be provided even with inexperienced kitchen personnel.
- VII. That the responsibility for the entire coordinated food service be definitely assigned.
- VIII. That every effort be made to have the food served to both inmates and employees meet minimum standards for adequate nutrition.
- IX. That the personnel of each institution be made aware of the fact that good nutrition is essential to good health, and that they learn to recognize the constituents of a good diet.
- X. That the personnel of each institutional kitchen be made aware of and practice modern methods of food preparation that minimize the destruction of food value.
- XI. That the supervisory personnel be led to realize that a nutritious diet is not necessarily an expensive diet.
- XII. That serious consideration be given to the inclusion of a separate allotment for food in the budget.
- XIII. That the general recommendations and specific recommendations for each institution be put into effect as soon as possible.

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