July 18, 2017 Regular Meeting Item #1

Opportunity for the Public to Address the Board

FREE Energy Efficiency Retrofits for Businesses

Southern California Edison's Business Direct Install program contractor will be in our area the week of July 10th. If you are interested in having your business evaluated to see if you could benefit and are eligible for free energy efficiency lighting retrofits, please send your business name, SCE service account number and street address to **bold@highsierraenergy.org.**

Don't miss this opportunity. Remember, the cheapest and cleanest energy is the energy you don't use!

FREE ENERGY EVALUATIONS

Send your business name, SCE service account number and street address to: **bold@highsierraenergy.org**

Programs are funded by California utility ratepayers and administered by SCE under the auspices of the California Public Utilities Commission.

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July 18, 2017 Regular Meeting Item #9a Agricultural Commissioner

2016 Crop and Livestock Report

2016 Inyo and Mono Counties Crop and Livestock Report

Counties of Inyo and Mono Agricultural Commissioner's Office 207 W South Street, Bishop, CA 93514

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Counties of Inyo and Mono Agricultural Commissioner's Office 2016 Crop and Livestock Report

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Technicians





Counties of Inyo & Mono

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Karen Ross, Secretary California Department of Food and Agriculture

Brian Leahy, Director California Department of Pesticide Regulation

The Honorable Board of Supervisors, County of Inyo The Honorable Board of Supervisors, County of Mono

Mark Tillemans, Chair

Stacy Corless, Chair

Matt Kingsley

Rick Pucci

Bob Gardener

Fred Stump

Jeff Griffiths

Dan Totheroh

John Peters

Larry Johnston

I am pleased to present the 2016 Inyo and Mono Counties' Annual Crop and Livestock Report. This report is prepared pursuant to California Food and Agriculture Code 2279, and is a statistical compilation of agriculture production in Inyo and Mono Counties. These values reflect **gross** agricultural production within the two counties, and do not represent net profit or loss.

The gross combined agricultural production values for Inyo and Mono Counties in 2016 totaled \$44,155,000, representing a decrease of 11.3% from 2015 production values. Drought continued to weight on production, with cumulative losses representing a 44.4% reduction in total value for our region since the beginning of the multi-year drought period.

Cattle production remained relatively stable in 2016 as herd sizes were reduced to minimal levels due to poor forage conditions during the extended drought period. Beef pricing, however, declined for Inyo and Mono ranchers, driving production value down over 2015. Livestock value losses were tempered somewhat by a return of feeder cattle to local range.

Alfalfa and other hay production was impacted by low pricing, reducing this commodity group as well. Some Irrigated pasture production loss occurred in Mono County as a result of LADWP decisions to not irrigate a vast portion of Long Valley due to drought, and acreage associated with these lands was moved into the rangeland commodity category for 2016.

Bright spots included both sheep production value increases, as well as more thorough reporting that resulted in increases in the fruit and nut category for both counties, and the inclusion of nursery production values for Mono County.

Sincerely

Nathan D. Reade Agricultural Commissioner

Counties of Inyo and Mono Agricultural Commissioner's Office

The mission of the Inyo and Mono Counties Agricultural Commissioner's Office is to promote and protect the agricultural industry of the counties, protect the environment, and to ensure the health and safety of all of its citizens. The department is also responsible for fostering confidence and equity in the marketplace.

The following are the main program areas:

Human Safety and Environmental Protection

The County Agricultural Commissioner's Office protects the health and safety of all Inyo/Mono residents, its agricultural industries and its environment with a series of comprehensive regulatory programs designed to prevent the introduction of exotic pests and to ensure the safe use of pesticides. The five programs that exist to achieve these goals include:

- Pest Exclusion
- Pest Detection
- Pest Eradication
- Pest Management
- Pesticide Enforcement

Consumer Protection and Product Quality

Product quality programs are designed to ensure the production and sales of quality eggs, honey, fruits, vegetables, and nursery and seed products. Quality standards that these programs ensure include maturity, grade, size, and weight. Packaging and labeling are also examined to ensure consumer expectations are met. The six programs include:

- Fruit and Vegetable Quality Control
- Organic Food Production
- Egg Quality Control
- Certified Farmers' Markets
- Nursery Inspection
- Seed Inspection

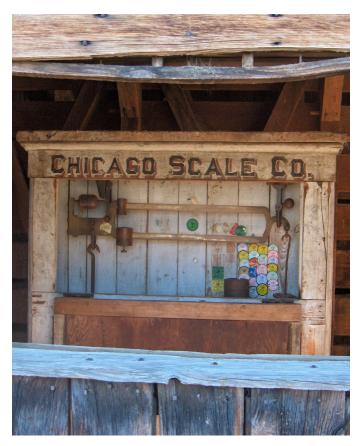
Special Agricultural Services

The Agriculture Department also provides other mandated services, including:

- Apiary Inspection
- Crop Statistics
- Sustainable Agriculture







Administrative and Education Outreach

Staff participate in a wide range of special projects intended to benefit Inyo/Mono citizens such as the legislative process, public information, education outreach efforts, as well as joint multi-agency and inter-county cooperative activities. Continuing education efforts sponsored by the Agriculture Department for pesticide safety help to ensure that local license-holders maintain adequate training.

Eastern Sierra Weed Management Area

This division of the Agricultural Commissioner's office consists of 15 federal, state, county, and local agencies and entities. The Eastern Sierra Weed Management Area is dedicated to the eradication and control of invasive plant species in Inyo and Mono Counties through the cooperation and coordination of participating entities. The Eastern Sierra Weed Management Area participates in public outreach and education activities to ensure that people understand the threat of non-native weeds on our environment and agriculture industry.

Weights and Measures

A gallon of gasoline, a cord of firewood, a loaf of bread, or a pound of fruits or vegetables...any item purchased is sold by weight, measure, or count. We protect the public from purchasing goods that are short weight or measure, and we protect businesses from giving their products and profits away when they use devices that could be inaccurate. We also verify that prices are scanned correctly at the counter, petroleum products meet quality standards, and weighmasters provide their customers accurate weighing devices. The eight programs in this category include:

- Weight Verification
- Measurement Verification
- Petroleum
- Transaction Verification
- Electronic Meters
- Compressed Gas Meters
- Weighmaster
- Device Repairmen Regulation

See page 15 for more information on this division.

Owens Valley Mosquito Abatement Program

The purpose of this program is to provide the public with a consistent level of mosquito control that reduces the threat of disease transmission and the spread of large nuisance populations of mosquitoes. See page 16 for more information on this division.







2016 Inyo County Crop and Livestock Statistics

Inyo County General Information

County Seat: County Population: Land Area: Population Density: Highest Elevation: Lowest Elevation:

Unincorporated Areas Big Pine Cartago Independence Lone Pine

Incorporated Cities Bishop Independence 18,546 (2010 census) 10,142 sq. miles 1,83 persons per sq. mile 14,505 ft. (Mount Whitney) -282 ft. (Badwater, D.V.N.P.)

Olancha Pearsonville Shoshone

Average Climate

High Bishop: 98° nile Death Valley: 115° tney)

Land Ownership

Federal: City of Los Angeles: State of California: Private: 92.0% 3.9% 2.4% 1.7%

Low

22°

INYO AND MONO COUNTES + 2016 CROP AND LIVESTOCK REPORT

Livestock & Livestock Products



	Year	Unit	Production	Value per Unit	Total****	CALIF
Cattle & Calves	2016	Head	7,670	\$1,045	\$8,013,000	▼16%
	2015	Tieau	7,680	\$1,243	\$9,550,000	▼ 1070
Sheep & Lambs**	2016	Head	3,815	\$164	\$625,700	▲26%
	2015	Head	3,670*	\$154	\$496,000*	A 20%
_	2016	Dener	4,350	\$4.75	\$20,600	A 1 1 0/
Eggs	2015	Dozen	4,020	\$4.50	\$18,100	▲ 14%
	2016	l ha	26,700	\$1.54	\$41,000	▲ 7%
Wool	2015	Lbs	23,900	\$1.59	\$38,000	▲ <i>1 %</i> 0
	2016				\$186,000	A 4470/
Miscellaneous***	2015				\$34,000	▲447%
djusted figure			Total Value	2016	\$8,886,000	± 1.20/
icludes feeder lamb gain. ncludes beef stocker gain, goats, h Total may not calculate due to rour			Total Value	2015	\$10,136,000*	▼12%

****Total may not calculate due to rounding

Field Crops

	Year	Unit	Production	Value per Unit	Total**	
	2016	Тал	15,100	\$180	\$2,718,000	1 00/
Alfalfa Hay	2015	Ton	15,100	\$200	\$3,100,000	▼12%
	2016	A are	14,000	\$70	\$980,000	- 00/
Pasture, Irrigated	2015	Acre	14,000	\$70	\$980,000	= 0%
Desture Desceland	2016	Aoro	1,150,000	\$1.12	\$1,288,000	- 0%
Pasture, Rangeland	2015	Acre	1,150,000	\$1.12	\$1,288,000	= 0%
Missellenseus*	2016		280	-	\$758,000	▼ 8%
Miscellaneous*	2015	-	655	-	\$824,000	▼ 0%
Includes garlic, grain hay, sudang		ay	Total Value	2016	\$5,744,000	70/
Total may not calculate due to rou	nding		Total Value	2015	\$6,192,000	▼ 7%

Nursery Products

1000	Year	Unit	Production	Value per Unit	Total	1
Nursony Stock*	2016	Acro	121	1000	\$1,032,000	▼36%
Nursery Stock*	2015	Acre	121		\$1,620,000	▼ 30%
* Includes cacti and succulents, palms,	and turf.	D-	Total Value	2016	\$1,032,000	▼36%
			Total Value	2015	\$1,620,000	▼ 30 70

Apiary Production

		Part 1	1	/alue per			
	Year	Unit	Production	Unit	Total		
Honey	2016	Lb	155,600	\$2.09	\$325,200		5%
Honey	2015	LD	154,000	\$2.01	\$310,000		570
Miscellaneous*	2016	1 12			\$5,600		4%
Wiscellaneous	2015		1	C GA	\$5,400		4 70
* Includes beeswax and pollen.		CAP-	Total Value	2016	\$330,800		E0/
11 28/			Total Value	2015	\$315,000	-	5%

Fruit & Nut Crops

90	Year	Unit	Production	/alue per Unit	Total	250
Misselleneous*	2016	Aaraa	35	N. 4.1 -	\$333,200	▲ 64%
Miscellaneous*	2015	Acres	32	12	\$203,000	▲04%
* Includes almonds, apples, apricots, b figs, grapes (table), grapes (wine), nec			Tatal	2016	\$333,200	A C 40/
pecans, persimmons, plums, pomegra berries, and walnuts.			Total Value	2015	\$ <mark>203</mark> ,000	▲64%

Vegetable Crops

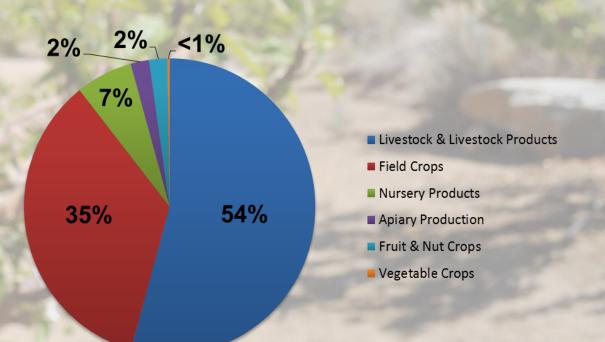
	Value per						
	Year	Unit	Production	Unit	Total		
N/incollegence*	2016	A	7	1000 -	\$42,000	70/	
Miscellaneous*	2015	Acres	9	-	\$45,000	1%	
 Includes Includes artichokes, beans, brassicas, carrots, cucum- bers, eggplant, garlic, herbs, leafy greens, melons, onions, pep- 			Total Value	2016	\$42,000	70/	
pers, pumpkins, radishes, squash, swe toes, and tubers.	eet corn, tomatillo	s, toma-	Total Value	2015	\$45,000	1 70	

Inyo County Totals



	Year	Total	
	2016	\$8,886,000	× 400/
Livestock & Livestock Products	2015	\$10,136,000	▼12%
Field Orang	2016	\$5,744,000	× 4 7 0/
Field Crops	2015	\$6,192,000	▼17%
Nurseau Dreducte	2016	\$1,032,000	X 260/
Nursery Products	2015	\$1,620,000	▼36%
Apiary Production	2016	\$330,800	▲ 5%
	2015	\$315,000	2 0 /0
Fruit & Nut Crops	2016	\$333,200	▲64%
	2015	\$203,000	
Vegetable Crops	2016	\$42,000	▼ 7%
vegetable orops	2015	\$45,000	• 7 70
Total Value	2016	\$16,368,000	▼12%
Total Value	2015	\$18,511,000	▼ 1270

Inyo County Agricultural Production



2016 Mono County Crop and Livestock Statistics

Mono County General Information

County Seat:	Bridgeport	Average Climate			
County Population:	14,202 (2010 census)		High	Low	
Land Area:	3,044 sq. miles	Bridgeport:	81°	8°	
Population Density:	4.67 persons per sq. mile	Hammil Valley:	98°	22°	
Highest Elevation:	14,252 ft. (White Mountain)				
Unincorporated Areas		Land Ownership			
Benton	June Lake	Federal:		84.7%	
				011170	
Bridgeport	Lee Vining	City of Los Angeles	s:	3.2%	
Bridgeport Chalfant Valley	Lee Vining Topaz				
		City of Los Angeles		3.2%	

Incorporated Cities Mammoth Lakes

INYO AND MONO COUNTES + 2016 CROP AND LIVESTOCK REPORT



Livestock & Livestock Products

				Value per		CALIFO
	Year	Unit	Production	Unit	Total***	
Cattle & Calves	2016	Head	8,230	\$1,045	\$8,603,000	▼16%
Calle & Calves	2015	neau	8,200	\$1,243	\$10,193,000	▼ 1070
Shoop 8 Lombo*	2016	Head	14,870	\$164	\$2,439,000	▲14%
Sheep & Lambs*	2015	Head	13,900	\$154	\$2,141,000	4 14 70
Wool	2016	l ha	119,300	\$1.54	\$183,700	▲ 7%
0000	2015	Lbs	107,800	\$1.59	\$171,000	I 70
Missellerssex*	2016				\$2,570,000	▲80%
Miscellaneous**	2015				\$1,425,000	▲ 80%
f Includes feeder lamb gain. ** includes beef stocker gain, goats, ho	ogs, and poultry.		Tetel Malue	2016	\$13,796,000	1 0/
***Total may not calculate due to round			Total Value	2015	\$13,930,000	▼ 1%

Field Crops

				Value per		
	Year	Unit	Production	Unit	Total**	
	2016	Ton	47,200	\$180	\$8,496,000	▼16%
Alfalfa Hay	2015	Ton	50,600	\$200	\$10,120,000	▼ 1070
Desture Irrigated	2016	Aara	26,000	\$70	\$1,820,000	▼40%
Pasture, Irrigated	2015	Acre	43,000	\$70	\$3,010,000	▼ 40%
Desture Dengeland	2016	Aoro	1,072,000	\$1.39	\$1,490,000	▲ 5%
Pasture, Rangeland	2015	Acre	1,055,000	\$1.35	\$1,424,000	3 70
Missellensevet	2016		1,473	-	\$2,063,000	▼23%
Miscellaneous*	2015	-	2,600	-	\$2,685,000	▼ 23%
Includes garlic, grain hay, sudangrass Total may not calculate due to roundi			Tatal Value	2016	\$13,869,000	2 00/
			Total Value	2015	\$17,239,000	▼20%

Fruit & Nut Crops

				Value per		
	Year	Unit	Production	Unit	Total	
Missellensous*	2016	Aaraa	18	-	\$43,300	A 100/
Miscellaneous*	2015	Acres	18	-	\$38,800	▲12%
* Includes grapes (wine), pome fruit, an	nd stone fruit.	and the second	Total Value	2016	\$43,300	A 100/
			Total Value	2015	\$38,800	▲12%

Forest Products

Year		Total		
Timber and Eirowood	2016	\$59,000	▲72%	
Timber and Firewood	2015	\$34,400		
Total Value	2016	\$59,000	▲72%	
rotai value	2015	\$34,400	▲ <i>1</i> ∠ 70	

Nursery Products

	Year	Unit	V Production	alue per Unit	Total	
Nursery Stock*	2016 2015	Acre	1		\$20,000 \$0	N/A
* Includes various ornamental plants	Niconie	and Color	Total Value	2016 2015	\$20,000 \$0	N/A

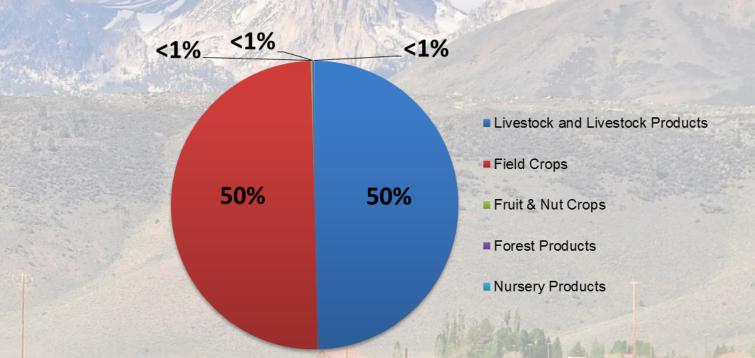
1.



Mono County Totals

ALIFO
- 40/
▼ 1%
2 000/
▼20%
▲12%
A 12 /0
▲72%
N1/A
N/A
▼11%

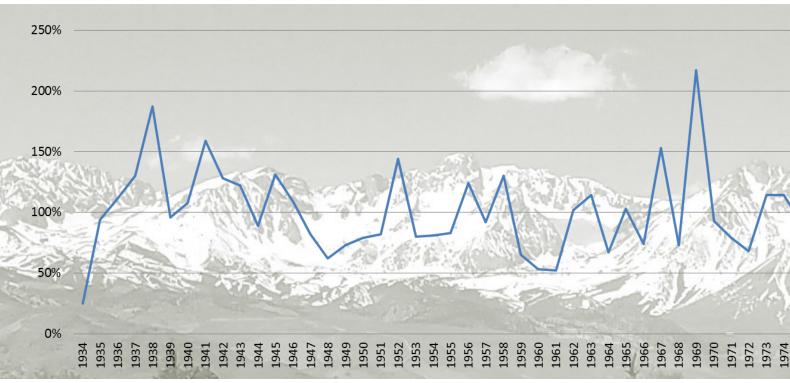
Mono County Agricultural Production



Five Year Comparison



Eastern Sierra Runoff Chart



Direct Marketing

Certified Farmer's Market

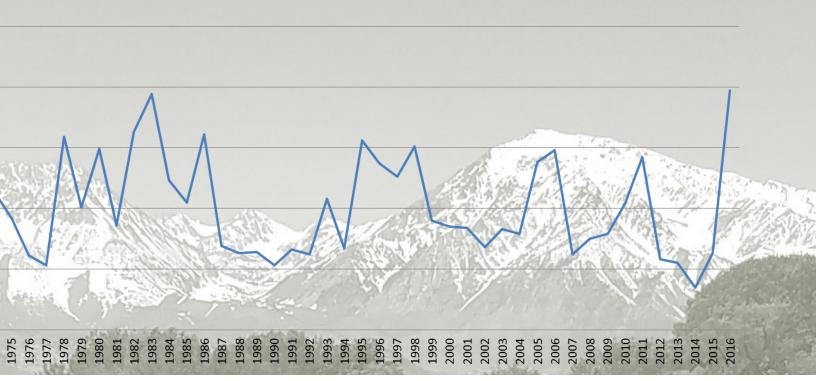
26 growers registered as Certified Producers in 2016.

Certified Farmer's Market locations included:

- Mammoth Lakes
- Bishop
- Independence

Commodities Grown by Certified Producers

Basil, chervil, chives, cilantro, dill, marjoram, parsley, rosemary, sage, tarragon, thyme, lavender, oregano, lemongrass, mint, mustard, paprika, spinach, sunflower, corn, eggplant, tomato, squash, cucumber, peppers, green onions, potatoes, pumpkins, okra, onions, beets, garlic, asparagus, artichoke, celery, carrots, radishes, rutabaga, leek, lettuce, broccoli, cauliflower, kale, arugula, sweet potatoes, Swiss chard, bok choy, cabbage, collard, Brussels sprouts, zucchini, shallots, tomatillos, turnip, grapes, apples, peaches, pears, nectarines, apricots, cherries, plums, persimmons, pomegranate, pluot, rhubarb, figs, watermelon, cantaloupe, honeydew, raspberries, blackberries, boysenberries, strawberries, peas, sweet peas, various bean varieties, almonds, walnuts, cut flowers, honey, and eggs.



Sustainable Agriculture and Outreach

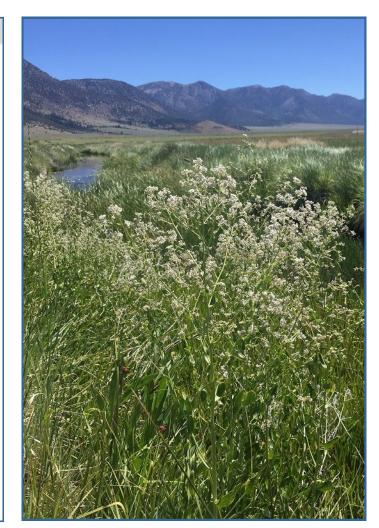
Invasive Plant Targets					
Pest	Agent/Mechanism	Number of Sites	Gross Acres		
Puncturevine	Biological Control	14 sites	~		
Dalmatian Toadflax	Mechanical	2 sites	220		
Yellow Starthistle	Mechanical/Herbicide	2 sites	10		
Russian Knapweed	Herbicide	3 sites	100		
Canada Thistle	Herbicide	8 sites	400		
Spotted Knapweed	Herbicide	3 sites	4		
Halogeton	Mechanical	5 sites	4,400		
Scotch Thistle	Herbicide	8 sites	1,311		
Camelthorn	Herbicide	1 site	40		
Saltcedar	Herbicide	1 site	80		
Perennial Pepperweed	Herbicide	53 sites	12,000		

Outreach Program

During 2016, the Inyo/Mono Counties' Agriculture Department conducted:

- 2 pesticide safety seminars with over 100 professional card holders and private applicators attending, to meet California state continuing education requirements;
- 2 educational workshops for local groups;
- Participation with the Owens Lake Committee and Integrated Regional Water Management Planning Group to resolve major water issues in the Owens Valley.

The Department's inspection surveillance area, which encompasses over 10,000 square miles, provided outreach from northern Mono County, including several California and Nevada field crop growers located in the Antelope Valley area, to the southern tip of Inyo County, including a large commercial turf grass farm in the Sandy Valley, near Las Vegas, Nevada. The Inyo/Mono Agricultural Commissioner's office is tasked with the surveillance of 50% of the California/Nevada border for pests that could endanger the agricultural industry of California.



Weights & Measures

Device Inspection Program

We are responsible for inspection, certification, or condemnation of all commercially used meters (retail motor fuel, propane/vapor, and electric), scales (aggregate and cement hoppers, vehicle, livestock, computing, platform and spring scales); and any other type of device that is used to weigh or measure to determine a value for the purpose of sales. Enforcement actions can include issuance of citations initiating prosecution of violations. Of the 1,200+ devices inspected, 20 Notice of Violations were issued. All consumer complaints received by the Inyo/Mono Counties' Weights and Measures Department resulted in further inspections throughout the year. Regular inspections protect consumers from misrepresentation and maintain fair competition between sellers.

Petroleum Program

We ensure the quality of petroleum products sold within the two Counties including; sampling of fuels, inspection and investigation of complaints. We also oversee all commercial advertisements of such products including price signs and labeling.

Package Inspections

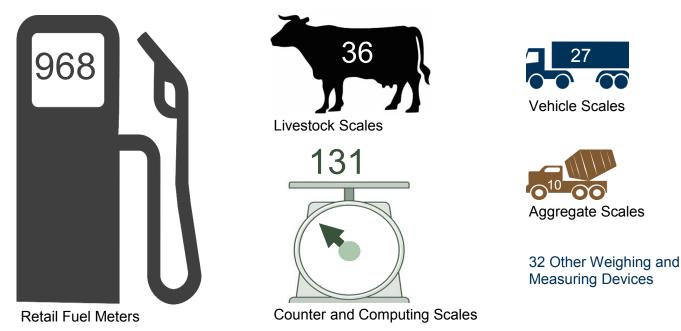
We inspect pre-packaged commodities in retail and wholesale facilities to determine proper weights, count or volume. We also verify proper sales equipment involving scanners, performing test purchases to insure accurate charges.

Weighmaster Enforcement

Weighmaster licenses are issued through our office to persons or entities that sell bulk commodities. Enforcement of weighmaster laws ensures that these transactions are accurate.

Device Repairman Regulation

Anyone who installs or repairs a weighing or measuring device in Inyo or Mono Counties must register with our office and inform our office when work takes place. This ensures that devices are not tampered with and transaction equity.



INYO AND MONO COUNTES + 2016 CROP AND LIVESTOCK REPORT

Owens Valley Mosquito Abatement

What is the mosquito control program?

The purpose of the program is to control mosquito populations throughout the Owens Valley from Olancha to Round Valley so that these pests and their associated diseases are abated adequately.

Monitoring

The Owens Valley Mosquito Abatement Program (OVMAP) conducts surveillance to determine mosquito populations using several methods. Mosquito traps are deployed in several locations throughout the Owens Valley, and are checked frequently to determine level of adult mosquito populations. Disease monitoring is component of this trapping effort, and insects caught in traps are sent to sample for the presence of certain diseases that mosquitos are known to spread. Complaints are logged and responded to, creating records that can also help with monitoring efforts. At times, staff will travel to areas where complaints are high and record landing rates of mosquitos to further gauge population density.

Biocontrol

Mosquito Fish - The mosquito fish have been one of the most effective non-insecticidal and non-chemical methods of controlling mosquitoes for over eighty years. They breed throughout the summer and new broods are produced at intervals of about six weeks, with 50 to 100 young in a single brood. They are ready to begin the work of destroying mosquito larvae at once. Mosquito fish can eat mosquito larvae as fast as the larvae hatch from eggs, as many as 100 per day. Mosquito fish live 2-3 years and can tolerate a wide range of temperatures.

Larvaciding - Routine larviciding of many hundreds of mosquito sources each week prevent immature mosquito larvae from reaching the flying and biting adult stage. This preferred first option for killing mosquitos is the cheapest and most effective method.

Adulticiding

When larvaciding does not control mosquito populations adequately, OVMAP conducts adulticiding measures to protect our local communities from irritating insect bites and the potential for spreading of disease.

Public Outreach and Cultural/Environmental Control

Outreach to residents about altering or removing conditions that best suit mosquito breeding is another effective tool in the OVMAP toolbox. These controls include proper irrigation practices, pool maintenance, and even making sure small containers or tires stored outside do not fill with stagnant water. Reducing the habitat conducive to mosquito breeding in the very areas where we live is a large step toward fewer itchy bites. Outreach efforts occur throughout the year through personal contact and social media, as well as at community events such as the Tri-County Fair.







The Evolution of California Agricultural Commissioners and Sealers

The California Agricultural Commissioners trace their origins back 136 years. The goal of the Agricultural Commissioners is to protect the State's crops from the ravages of pests both domestic and imported. Then, as now, one of the principle weapons employed was a legal device called a "*quarantine*", which is derived from the French word "quarante", meaning "forty". The quarantine came about as a detention device, its first use being in the year 1340 when passengers on ships bound for Venice, Italy, were detained on board ship for 40 days. This was considered a long enough period to determine whether or not those passengers carried with them the Black Plague, which was killing many people in Europe in the mid-14th century.

California's first statewide program, which was the beginning of the present Department of Food and Agriculture, began with "An Act For the Promotion of Viticultural Industries of the State" on April 5,1880. It provides for the appointment of a Board of State Viticultural Commissioners whose duties included the study of the grape root rot disease, *Phylloxera*. The Act specified that the University of California was responsible for instruction and experiments - a concept still existing today - giving the University the authority for research and the Department the regulatory functions. The Act provided for seven viticultural districts.

Until the year 1911, the duties of the State Board of Horticulture, the State Commissioner of Horticulture, county boards of horticulture commissioners and the county horticulture commissioners were limited to just a few obligations. These obligations consisted of preventing the introduction into the state of the pests from outside its boundaries, prevention of spread of insect pests and plant diseases through the media of nursery stock, fruit boxes, and other containers, and the inspection of nurseries. The years that followed would find the duties not only intensified in the same areas, but expanded into many other aspects of agriculture.

In the beginning the regulatory concern was to protect the California farmer from the depredations of exotic pests. After 1911, these duties were to be expanded to include concerns of the market place (standardization), and such cultural aids as assistance to the farmer in weed control and control of rodents and other damaging creatures. Later, they would enlarge to assure the farmer honest weights and measures, and protection from unscrupulous middlemen. Finally, the regulations would blossom into the full relationship of the farmer and the consumer.

Today, the California Department of Food and Agriculture and County Agricultural Commissioners are as busy helping the consumer as they are the farmer. They keep exotic pests away from the farmer's fields by fighting them in city gardens, where they nearly always are found first in the State. By so doing, they are affording city people as much protection as farmers, for these pests generally can wreak as much havoc in the city as in the country. They provide for, and oversee, standardization practices, thus insuring the farmers good markets for their products and insuring quality for consumers. They promote marketing of goods in a variety of ways, also assuring quality and quantity to consumers. They look after the health of livestock and plants, and the same benefits accrue to the consumer. They insist on measurement standards that also have dual blessings; and they assure the consumer and the farmer protection against the careless use of pesticides, thus affording protection to both people and the environment.



Agriculture in Inyo & Mono Counties: An Economic Profile



June 2017

Agricultural Impact Associates LLC

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Ten Research Questions 6						
 #1. What is the total direct economic value of agriculture? #2. How has the total direct value of agriculture changed over time? #3. What economic "multiplier effect" does agriculture create? #4. What is agriculture's total economic contribution, including multiplier effects? #5. How do agriculture's economic contributions vary by land ownership type? #6. What contributions does agriculture make through local employment and taxes? #7. What economic relationships exist within agriculture that straddle both counties? #8. What "ecosystem services" do agricultural lands provide to society? #9. How economically diverse is agriculture? #10. What options exist to add economic value to local agricultural production? 						
Conclusion						



Counties of Inyo & Mono

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I am pleased to share Agriculture in Inyo & Mono Counties: An Economic Profile. This report takes an important step beyond the annual *Crop and Livestock Report* we have published over the past several decades. Instead of stopping at production values and acreage, it quantifies agriculture's total economic contribution through food production, employment, and economic "multiplier effects." It also examines agriculture's economic diversity, ecosystem services, production across different land ownership types, inter-county relationships, and opportunities to expand through greater diversification.

Section 2279 of the California Food and Agriculture Code requires all county agricultural commissioners to report the annual "value" of agriculture. This typically occurs via our yearly *Crop and Livestock Report*. Using twenty-first century economic tools, we can now fulfill this mandate better than ever. We can also explore additional topics that clarify agriculture's role in sustaining a healthy local economy.

Agriculture has a long tradition in both Inyo and Mono Counties. For more than 150 years, it has been a pillar of our economy and culture. With this report, we renew our commitment to sustaining that tradition well into the future.

Sincerely,

Nathan D. Reade Agricultural Commissioner, Director of Weights & Measures

Agriculture in Inyo & Mono Counties: An Economic Profile

Executive Summary

For more than a century, agriculture has provided a vital link between Inyo and Mono Counties' cultural past and economic future. Although the counties' annual *Crop and Livestock Report* documents production values across various categories, it does not attempt to capture agriculture's larger economic profile. This report helps fill part of that knowledge gap. Drawing from multiple sources, it examines agriculture's broader economic implications.

The analysis supports ten main conclusions, in particular:

- #1. Direct production value. For 2015, agriculture produced a combine total of \$49.7 million across both counties, including \$18.5 million from Inyo and \$31.2 million from Mono. "Livestock & Livestock Products" was the largest category, contributing 48.3% of the counties' combined total.
- **#2**. **Steady, overall growth.** Despite recent dips and variations across counties and categories, total farm production values have shown steady, long-term growth. From 2000 to 2015, the combined total output for both counties rose \$14.1 million (39.6%). This growth outpaced inflation by 3.9%.
- **#3. Multiplier effects.** Agricultural production creates ripples in the local economy. For example, every dollar's worth of economic output from Inyo "Livestock & Livestock Products" creates an extra 64 cents in purchases from suppliers and spending by agricultural employees.
- **#4. Total economic output**. Agriculture's multiplier effects totaled \$9.0 million in Inyo and \$19.9 million in Mono, for a combined total of \$28.9 million. When added to the \$49.7 million in direct output mentioned above, agriculture's combined total economic output rises to \$78.6 million.
- #5. Ownership of agricultural lands. Across both counties combined, federal agencies own most of agricultural land (88.7%) and rangeland pasture is the most common use (97.2% of total area). Among field crops, private lands contributed the highest dollar output (63.8% of the total), mostly through alfalfa hay production (66.6% of all output).

- **#6. Employment and taxes.** Across both counties combined, agriculture provided 239 direct jobs plus an additional 210 from multiplier effects, for a total of 449 jobs. Total combined tax payments across local, state, and federal levels were \$6,287,128.
- **#7. Cross-county interdependencies**. Seasonal movement of cattle herds across county lines creates complex economic interdependencies. For example, an acre of Mono County irrigated pasture accounts for \$1,657 in production combined across both counties. Alfalfa contributes \$10,525.
- **#8. Significant non-market values.** Agricultural lands provide society with wildlife habitat, scenic beauty, carbon storage, and many other "ecosystem services." Established methodologies exist for quantifying the economic value of these contributions.
- #9. Economic diversity within agriculture. Combined across the two counties, the agricultural
 industry has an economic diversity index score of 1.75. While low, the number has remained stable
 over the past decade, unlike many California counties that have seen declines.
- **#10. Expansion through diversification.** Agriculture faces expansion opportunities through five diversification strategies. In terms of specific diversification focal areas, local meat processing remains an especially promising area, along with agritourism, cannabis and wineries.

Overall, the results provide an especially detailed look at agriculture's economic role, as well as key information gaps to fill in the future. The findings should be of use to a wide ranges of stakeholders. Individual producers, for example, can understand how their operations fit into larger context. Public agency and non-profit staff can better understand agriculture's current and potential future role in sustaining a healthy economy.

Acknowledgments

Agricultural Impact Associates LLC (<u>www.ag-impact.com</u>) produced this report under contract to the Inyo & Mono Counties Department of Agriculture, Weights & Measures. The Mono County Community Development Department provided additional funding. Lead authors were Dr. Jeff Langholz (jeff@agimpact.com) and Dr. Fernando DePaolis (fernando@ag-impact.com). Nathan Reade supervised the project on behalf of Inyo & Mono Counties. We thank several local agricultural experts for sharing their expertise during development of this report. The cover photo is courtesy of Inyo & Mono Counties Department of Agriculture, Weights & Measures.

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Introduction

Residents and visitors alike know and value the rural character of Inyo and Mono Counties. Cattle graze in vast pastures and alfalfa fields green the valley floors. Farmers markets overflow with fresh produce and community spirit. Clearly, agriculture plays a key role in sustaining a healthy local economy. What's not so clear, however, is the true size of that role. How much money does agriculture pump into the local economy? How many jobs does agriculture support? What other economic implications does agriculture have?

This report sheds light on these and related questions. Using multiple data sources and advanced economic modeling techniques, it analyzes economic aspects of Inyo and Mono Counties' agriculture. The report focuses on ten questions shown in the box below.

Ten Research Questions

- 1. What is the total direct economic value of agriculture?
- 2. How has the total direct value of agriculture changed over time?
- 3. What economic "multiplier effects" does agriculture create?
- 4. What is agriculture's total economic contribution considering direct and multiplier effects?
- 5. How do agriculture's economic contributions vary by land ownership type?
- 6. What contributions does agriculture make through local employment and taxes?
- **7.** What economic relationships exist within agriculture that straddle both counties?
- 8. What "ecosystem services" do agricultural lands provide to society?
- 9. How economically diverse is agriculture?
- 10. What options exist to add economic value to local agricultural production?

Although the report does not attempt to cover every aspect of agriculture's economics, it represents the most detailed analysis to date. The findings should be of interest to a wide range of stakeholders, including policy makers, growers, ranchers, and all others who value a vibrant local economy.

Methods

Primary data collection took place in late 2016 and early 2017. To maximize accuracy, we used a hybrid approach that combined multiple methods, researchers, and sources. Please consult the authors for additional details on the methods used.

We sourced quantitative data from local experts, annual *Crop and Livestock Reports*, and a widely used economic modeling program called IMPLAN. Using econometric modeling, IMPLAN converts data from more than a dozen federal government sources into local values for every U.S. county and zip code, as well as for each of 536 industry sectors. Except where otherwise noted, all figures are from the year 2015, the most recent IMPLAN dataset available. For additional details on IMPLAN, please see the sections below and www.IMPLAN.com.

Qualitative data collection consisted of three methods. First, we conducted personal interviews with local experts from public and private sector organizations. These experts provided highly informed perspectives into local agriculture. Second, we collected and reviewed a wide range of key documents. These documents included written policies, program evaluations, annual reports, financial statements, business plans, newspaper articles, scholarly studies, and others. Third, we drew from direct observations, having spent ample time in both counties over the course of many years.

Our analysis emphasizes agriculture's economic contributions. To understand agriculture's full economic impact, one would also need to assess agricultural-related costs to society, for example net impacts on water and other natural resources. While important, these impacts lie beyond the scope of this study.

1. What is the total direct value of agriculture?

This section focuses on the simplest measures of economic output: production. It describes total farm production across various production categories.

Table 1 shows the various categories that make up Inyo and Mono Counties' farm production value. "Livestock & Livestock Products" was the single largest production category by dollar value, comprising \$24.0 million and 48.3% of the counties' combined total. "Cattle & Calves" dominated this category, consisting of \$9.6 million for Inyo and \$10.2 million for Mono. The remaining \$4.3 million (17.9%) of the "Livestock and Livestock Products" category includes sheep, lambs, wool, eggs, and miscellaneous other livestock products.

At \$23.4 million, "Field Crops" was the second largest category (47.1%). "Field Crops" consisted mostly of three sub-categories: 1) "Alfalfa Hay" at \$13.2 million and 56.4%; 2) "Pasture (Irrigated)" at \$4.0 million and 17.0%; and 3) "Pasture (Rangeland)" at \$2.7 million and 11.6%. The remainder includes garlic, grain hay, sudangrass, and other miscellaneous field crops accounting for \$3.5 million and 15.0%.

Together, these two major categories contributed \$47.5 million (95.5%) of the counties' combined, direct farm production values. For 2015, that combined, total farm production value was \$49.7 million.

This gross value does not reflect net profit or loss experienced by individual growers or by the industry as a whole. Interested readers are encouraged to consult the annual *Crop and Livestock Report* for additional details.

	INYO County		MONO County		COMBINED		
Production Category	\$ Value	%		\$ Value	%	\$ Value	%
Livestock / Livestock							
Products	\$10,114,000	54.7%		\$13,930,000	44.6%	\$24,044,000	48.3%
Field Crops	\$6,192,000	33.5%		\$17,239,000	55.2%	\$23,431,000	47.1%
Nursery Products	\$1,620,000	8.8%		-	-	\$1,620,000	3.3%
Fruit & Nut Crops	\$203,000	1.1%		\$38,800	0.1%	\$241,800	0.5%
Apiary Production	\$315,000	1.7%		-	-	\$315,000	0.6%
Vegetable Crops	\$45,000	0.2%		-	-	\$45,000	0.1%
Forest Products	-	-		\$34,400	0.1%	\$34,400	0.1%
TOTALS:	\$18,489,000	100%		\$31,242,200	100%	\$49,731,200	100%

Table 1: Distribution of Inyo and Mono Counties' Agriculture by Production Value

Source: 2015 Crop and Livestock Report

2. How has the total direct value of agriculture changed over time?

How has agriculture's direct economic output changed over time? **Figure 1** shows long-term production trends. For Inyo County, total growth in agricultural production from 2000 to 2015 was \$4.0 million (+27.7%). Mono agriculture grew \$10.1 million (+47.7%). Combined, the two counties grew \$14.1 million (39.6%).

Inflation averaged 2.2% during this period and totaled 35.7%. **Figure 1** does not reflect this increase. Thus, in "real" (inflation adjusted) terms, Inyo lost 8.0% over the sixteen-year period while Mono gained 12.0%. Combined, the counties gained 3.9%.

Figure 1 highlights three additional patterns. First, the dominant trend has been one of slow, steady growth. Notwithstanding inflation-adjusted results and recent dips, total production value tends to climb over time. The "steady growth" pattern goes back at least thirty years, as a graphic in the 2014 *Crop and Livestock Report* showed.

Second, the two counties tend to move in tandem. This might indicate similar production patterns, vulnerabilities to external economic forces, and/or significant inter-county relationships such as those described in Section #7.

Third, recent fluctuations represent a variation from the usual pattern. The long-term trend has not only been one of growth, but also of little variation. The sharp rise starting in 2011, followed by the steep decline of 2014 and 2015, stand in stark contrast to the long-term growth trend.

Figure 1 includes a linear trend line. This dashed line shows what one would expect to happen in 2016, 2017, and 2018 based on sixteen previous data points. Note that the predicted trend continues upward, despite recent declines.

Only time will tell if production values return to their long-term trend. One working hypothesis is that the big drop during 2014 and 2015 was simply a "correction" to above-average growth during the preceding three years, i.e. from 2011 to 2013. A deep drought may have exacerbated the correction. An alternative hypothesis is that something has fundamentally changed and the decades-long growth story is ending. The next few years should shed light on which explanation seems most valid, especially considering the wet winter of 2016-2017.

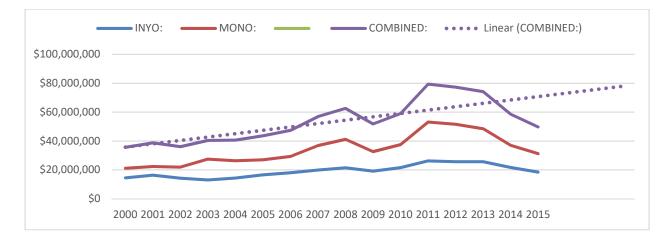


Figure 1: Long-term Trends in Production Value

3. What economic "multiplier effect" does agriculture create?

When it comes to economic analysis, it is important to examine the fullest possible range of economic contributions. This report does that by focusing not just on *direct* economic effect such as farm production and employment, but also on *multiplier effects*. *Multiplier effects* are ripples through the economy. These ripples include inter-industry "business to business" supplier purchases as well as "consumption spending" by employees.

It is appropriate to calculate *multiplier effects* when analyzing what economists call a *basic industry*. A *basic industry* is one that sells most of its products beyond the local area and thus brings outside money into local communities. Agriculture is a basic industry in Inyo and Mono Counties. For example, nearly all of the cattle go to other counties for processing into meat products. Thus, this report includes *multiplier effects* when describing agriculture's total economic contribution.

Economic ripples take two forms: *indirect effects* and *induced effects*. The first consist of "business to business" supplier purchases. For example, when a rancher buys vehicles, fuel, insurance, feed, medicine, banking services, veterinary services, and other inputs, this creates *indirect effects*.

The second ripple type, *induced effects*, consist of "consumption spending" by agriculture business owners and employees. They spend income on housing, groceries, utilities, healthcare, leisure activities, and other things for their households. All of this spending creates ripples in the economy.

Economists calculate *indirect* and *induced* effects by using multipliers. Multipliers are numbers that when applied to direct economic output values, quantify the ripple effect. **Table 2** shows economic multipliers for major production categories. We used IMPLAN multipliers as a starting point, then customized them to reflect local production and benchmark data from other California counties.

For example, Inyo County "Livestock & Livestock Products" has an *indirect effects* multiplier of 0.4940. This means that each dollar's worth of direct output generates an extra 49 cents in supplier purchases. The 0.1424 *induced effects* multiplier means that each dollar's worth of direct economic output also generates an extra 14 cents in consumption spending by agriculture owners and employees.

	INYO Output		INYO Output		MONO O	utput
	Indirect Induced Effects Effects		Indirect	Induced		
			Effects	Effects		
	Multiplier	Multiplier	Multiplier	Multiplier		
Livestock / Livestock Products	0.4940	0.1424	0.5112	0.3728		
Field Crops	0.1264	0.1725	0.1220	0.3139		
Nursery Products	0.0587	0.2392	n/a	n/a		
Fruit & Nut Crops	0.0757	0.2562	0.0609	0.6098		
Apiary Production	0.1639	0.2724	n/a	n/a		
Vegetable Crops	0.0830	0.2600	n/a	n/a		
Forest Products	n/a	n/a	0.0489	0.2689		

Table 2. Economic Output Multipliers

* Note: "n/a" indicates zero production value for a given category, thus no multiplier effect

Note that individual production sectors all have different multipliers for *induced* and *indirect* output. For example, the *indirect effect* multiplier for Mono County "Livestock & Livestock Products" is nearly seven times higher than for "Fruit & Nut Crops." The *induced effect* multiplier for Mono County "Livestock & Livestock Products," however, is lower than for all other production categories. Multipliers also vary across counties, reflecting where and how much agricultural companies and their employees can and do spend money.

4. What is agriculture's total economic contribution, including multiplier effects?

The previous sections have provided key pieces to an economic puzzle. This section combines those puzzle pieces into a fuller picture showing the larger economic output effect of Inyo and Mono Counties' agriculture.

Applying economic multipliers from the previous section, **Table 3** shows agriculture's direct, indirect, and induced economic effects for major production categories in Inyo County. The total economic contribution was \$27.5 million. This consisted of \$18.5 million in direct output from production, plus \$9.0 million in multiplier effects.

	Output for INYO County						
		Indirect Induced		Total Output			
	Direct	Effects	Effects	(Direct + Indirect			
	Output	Output	Output	+ Induced)			
Livestock & Livestock Products	\$10,114,000	\$4,996,588	\$1,440,010	\$16,550,598			
Field Crops	\$6,192,000	\$782,511	\$1,068,405	\$8,042,916			
Nursery Products	\$1,620,000	\$95,015	\$387,473	\$2,102,488			
Apiary Production	\$315,000	\$51 <i>,</i> 623	\$85,815	\$452,438			
Fruit & Nut Crops	\$203,000	\$15,371	\$52,013	\$270,384			
Vegetable Crops	\$45,000	\$3,736	\$11,698	\$60,435			
TOTALS:	\$18,489,000	\$5,944,845	\$3,045,414	\$27,479,259			

Table 3. Overall Economic Effect of Inyo County Agriculture

Table 4 shows agriculture's direct, indirect, and induced economic effects for major productioncategories in Mono County. The total economic contribution was \$51.1 million. This consisted of \$31.2million in direct output from production, plus \$19.9 million in multiplier effects.

	Output for MONO County						
		Total Output					
	Direct	Effects	Effects	(Direct + Indirect			
	Output	Output	Output	+ Induced)			
Livestock & Livestock Products	\$13,930,000	\$7,120,346	\$5,193,787	\$26,244,133			
Field Crops	\$17,239,000	\$2,102,914	\$5,411,529	\$24,753,444			
Fruit & Nut Crops	\$38,800	\$2,364	\$23,661	\$64,825			
Forest Products	\$34,400	\$1,681	\$9,250	\$45,331			
TOTALS:	\$31,242,200	\$9,227,306	\$10,638,228	\$51,107,733			

Table 4. Overall Economic Effect of Mono County Agriculture

Table 5 combines both counties into a single snapshot of agriculture's total economic effect. Including all seven major production categories, the total economic contribution was \$78.6 million. This consisted of \$49.7 million in direct output from production, plus \$28.9 million in multiplier effects. These totals capture economic contributions beyond what the annual *Crop and Livestock Report* is designed to reflect.

	Output for Inyo & Mono Counties Combined						
		Total Output					
	Direct Effects Effects		Effects	(Direct + Indirect			
	Output	Output	Output	+ Induced)			
Livestock & Livestock Products	\$24,044,000	\$12,116,934	\$6,633,797	\$42,794,731			
Field Crops	\$23,431,000	\$2,885,425	\$6,479,935	\$32,796,360			
Nursery Products	\$1,620,000	\$95,015	\$387,473	\$2,102,488			
Fruit & Nut Crops	\$241,800	\$17,735	\$75,674	\$335,209			
Apiary Production	\$315,000	\$51,623	\$85,815	\$452,438			
Vegetable Crops	\$45,000	\$3,736	\$11,698	\$60 <i>,</i> 435			
Forest Products	\$34,400	\$1,681	\$9,250	\$45,331			
TOTALS:	\$49,731,200	\$15,172,151	\$13,683,642	\$78,586,992			

Table 5. Overall Economic Effect of Both Counties Combined

5. How do agriculture's economic contributions vary by land ownership type?

So far, we have shown agriculture's economic contributions from direct production and multiplier effects across major production categories. This section adds a new variable: land ownership. As the *2015 Crop and Livestock Report* and other sources indicate, private land ownership is rare in Inyo and Mono Counties. Privately owned lands comprise only 1.7% of Inyo County and 6.5% of Mono. Thus, agricultural production depends to a large extent on leasing lands owned by other entities. This dependency, in turn, makes agriculture vulnerable to changes in leasing policies.

To better understand this phenomenon, this section examines the nexus of land ownership and agricultural production. The first part briefly describes major land ownership categories most relevant to agriculture. The second part estimates total economic contributions attributable to each land ownership type, including direct output and multiplier effects.

Four Main Land Ownership Types

Based on publicly available data and on consultations with local experts, we focused on four major land ownership types. Although other land ownership types exist, most agriculture occurs under these four categories:

- <u>Federal: U.S. Bureau of Land Management (BLM)</u>. Part of the U.S. Department of the Interior, the BLM manages 245 million acres of land in the United States, including 1.4 million Inyo County acres. The agency's multi-use mission combines energy development, livestock grazing, recreation, timber harvesting and other production types with protection of natural, cultural, and historical resources.
- <u>Federal: U.S. Forest Service (USFS)</u>. Part of the U.S. Department of Agriculture, the USFS manages 193 million acres million acres of land in the USA, including 776,000 in Inyo County. The agency works to sustain the health, diversity, and productivity of the nation's forests and grasslands for current and future generations. Like BLM, USFS leases many of its lands to private, for-profit businesses for grazing, logging, and other extractive purposes.
- <u>City of Los Angeles, Department of Water and Power (LADWP)</u>. As a result of a long, complex, and contentious history, the City of Los Angeles has extensive holdings in Inyo and Mono Counties. LADWP uses these lands to supply water to Los Angeles via aqueducts. Total acreage varies across information sources. Based on county government sources such as General Plans and *Crop and Livestock Reports*, LADWP owns around 253,000 Inyo County acres (3.9% of the county) and 64,000 acres of Mono County (3.2% of the county), for a total of 317,000 acres.

At the time of writing, LADWP noted owning roughly 320,000 acres in Inyo and Mono Counties, with 240,000 of these acres leased to ranchers for grazing. Leased lands include 18,000 irrigated acres, 2,000 of them allocated for alfalfa production. On its website, LADWP notes that, "Grazing and recreation are compatible with watershed protection, and are an important part of a land management program that provides viable business opportunities while satisfying the goal of water quality protection" (see <u>www.LADWP.com</u>).

 <u>Private Ownership</u>. As noted earlier, private land ownership is rare in Inyo and Mono Counties. At the time of writing, an estimated 121,200 Inyo County acres were in private ownership (1.9%), and 130,291 Mono County acres (6.5%). Private land occurs mostly in community areas. The low rates of private land ownership extend into agricultural production, making agriculture small and highly dependent on leasing lands from other owners.

Although most agriculture occurs within these four categories, two others warrant mention. First, the State of California owns land managed by its Department of Fish and Wildlife (DFW). Examples include the 991-acre Pickel Wildlife Area and the 1,400-acre East Walker River Wildlife Area, both in Mono County. DFW also owns the 181-acre Fish Slough Ecological Reserve near the Inyo-Mono border. Any occasional use of these lands by ranchers is for moving stock rather than grazing. The other exception is the County of Mono, which owns 770 acres.

Economic Effect Attributable to Each Land Ownership Type

Now that we understand the major land ownership types under which agriculture occurs, we can determine the amount of economic output attributable to each land ownership type. We can also allocate output across common production categories. The following three figures show results for Inyo and Mono Counties individually, then combined.

Table 6 shows Inyo County agriculture's direct, indirect, and induced effects based on land ownership and use. It focuses on three main land uses: alfalfa hay, irrigated pasture, and rangeland pasture. Key findings include:

- <u>Ownership</u>: With 777,401 acres under agricultural production, BLM by far owns the most agricultural land (65%). Private ownership accounts for the smallest portion, with just 388 acres (3%).
- <u>Uses</u>: Of the 1,204,077 acres used for production, 98.7% of them (1,187,859 acres) are used as rangeland pasture. Only tiny portions go toward alfalfa hay (2,018 acres) and irrigated pasture (14,200 acres). LADWP owns virtually all of the irrigated pasture acres, the only exceptions being a few privately owned pastures too small to include in this level of analysis.

<u>Output</u>. Including direct and multiplier effects, agricultural lands produced \$6.97 million across the three product categories. LADWP lands accounted for most of this output (68.6%), at \$4.8 million. Among the three land uses, alfalfa hay accounted for the most economic output (57.7% and \$4.0 million), even though less than one percent of the total acres were in alfalfa hay (0.17%).

	Federal	Federal	City	Private	
	(BLM)	(USFS)	(L.A.)	Owner	TOTALS:
		Alfalfa	Нау		
# of Acres:	-	-	1,630	388	2,018
% of Total:	0%	0%	81%	19%	100%
Direct Value:	\$0	\$0	\$2,503,964	\$596,036	\$3,100,000
Indirect Value:	\$0	\$0	\$316,437	\$75,324	\$391,761
Induced Value:	\$0	\$0	\$432,049	\$102,844	\$534,893
Total Value:	\$0	\$0	\$3,252,451	\$774,203	\$4,026,654
		Pasture (Irr	igated)		
# of Acres:	_	_	14,200	_	14,200
% of Total:	0%	0%	100%	0%	100%
Direct Value:	\$0	\$0	\$980,000	\$0	\$980,000
Indirect Value:	\$0 \$0	\$0 \$0	\$123,847	\$0 \$0	\$123,847
Induced Value:	\$0 \$0	\$0 \$0	\$169,095	\$0 \$0	\$169,095
Total Value:	\$0	\$0 \$0	\$1,272,942	\$0 \$0	\$1,272,942
Pasture (Rangeland)					
		Pasture (Rai	igeiand)		
# of Acres:	777,401	225,057	185,401	-	1,187,859
% of Total:	65%	19%	16%	0%	100%
Direct Value:	\$842,939	\$244,030	\$201,031	\$0	\$1,288,000
Indirect Value:	\$106,526	\$30,839	\$25,405	\$0	\$162,770
Induced Value:	\$145,446	\$42,106	\$34,687	\$0	\$222,239
Total Value:	\$1,094,911	\$316,976	\$261,123	\$0	\$1,673,010
	Total	Values Acros	s All 3 Uses		
# of Acres:	777,401	225,057	201,231	388	1,204,077
% of Total:	65%	19%	17%	0.03%	100%
Direct Value:	\$842,939	\$244,030	\$3,684,995	\$596 <i>,</i> 036	\$5,368,000
Indirect Value:	\$106,526	\$30,839	\$465,689	\$75,324	\$678,378
Induced Value:	\$145,446	\$42,106	\$635,832	\$102,844	\$926,227
GRAND TOTAL:	\$1,094,911	\$316,976	\$4,786,516	\$774,203	\$6,972,606

Table 6. Inyo County Economic Effect By Land Ownership & Use

Table 7 shows Mono County agriculture's direct, indirect, and induced effects based on land ownership and use. Key findings include:

- <u>Ownership</u>: With 503,205 and 545,556 acres in production respectively, BLM and USFS are the biggest two agricultural land owners. Private landowners and LADWP own the remaining 6%, in nearly equal proportions.
- <u>Uses</u>: Similar to Inyo County (above), the overwhelming majority of agricultural land is rangeland pasture. Rangelands account for 1,059,838 acres (95.6%) of the total 1,109,091 acres under production. Relatively small areas go toward alfalfa hay (9,200 acres) and irrigated pasture (40,053 acres).
- <u>Output</u>. Including direct and multiplier effects, agricultural lands accounted for \$20.9 million across the three production categories. At \$17.0 million, private lands accounted for the overwhelming majority of this total (81.4%), despite having just 32,267 acres in production. Similar to Inyo County, alfalfa hay accounted for more economic output (\$14.5 million and 69.5%) than irrigated pasture or rangeland pasture despite covering less than one percent of total area used for agriculture (0.83%).

Table 8 combines the data for both counties. Key findings include:

- <u>Ownership</u>: With 1,280,606 and 770,613 acres in production respectively, BLM and USFS are the biggest two agricultural land owners by area (88.7%). LADWP is next with 9.9%, followed by private landowners at 1.4%.
- <u>Uses</u>: As was the case with each individual county, rangeland pasture accounts for the vast majority of agricultural acres. Rangelands cover 2,247,697 acres (97.2%) of the counties' combined 2,313,168 acres under production. Relatively small areas go to irrigated pasture (54,253 acres, 2.3%) and alfalfa hay (11,218 acres, 0.5%).
- <u>Output</u>. Combining direct and multiplier effects across both counties, agricultural lands accounted for \$27.9 million across the three production categories. Despite only 32,655 acres in production, private lands accounted for the overwhelming majority of this total (\$17,794,611, 63.8%). Similar for each county individually, alfalfa hay accounted for more economic output (\$18,557,940 and 66.6%) than irrigated pasture or rangeland pasture, even though less than one percent of total acres were in alfalfa hay (0.5%).

	Federal	Federal	City	Private	
	(BLM)	(USFS)	(L.A.)	Owner	TOTALS:
		Alfalfa H	lay		I
# of Across				0.200	0 200
# of Acres:	-	-	-	9,200	9,200
% of Total:	0%	0%	0%	100%	100%
Direct Value:	\$0 ¢0	\$0 ¢0	\$0 ¢0	\$10,120,000	\$10,120,000
Indirect Value: Induced Value:	\$0 \$0	\$0 \$0	\$0 \$0	\$1,234,497	\$1,234,497
	\$0	\$0	\$0	\$3,176,790	\$3,176,790
Total Value:	\$0	\$0	\$0 \$0	\$14,531,287	\$14,531,287
		Pasture (Irri	gated)		
# of Acres:	4,509	5,977	6,500	23,067	40,053
% of Total:	11%	15%	16%	58%	100%
Direct Value:	\$338,853	\$449,174	\$488,478	\$1,733,495	\$3,010,000
Indirect Value:	\$41,335	\$54,793	\$59,587	\$211,462	\$367,177
Induced Value:	\$106,370	\$141,001	\$153,339	\$544,165	\$944 <i>,</i> 875
Total Value:	\$486,559	\$644,968	\$701,404	\$2,489,122	\$4,322,053
Pasture (Rangeland)					
# of Acres:	498,696	539,579	21,563	-	1,059,838
% of Total:	47%	51%	2%	0%	100%
Direct Value:	\$670,049	\$724,979	\$28,972	\$0	\$1,424,000
Indirect Value:	\$81,736	\$88,437	\$3,534	\$0	\$173,708
Induced Value:	\$210,336	\$227,580	\$9 <i>,</i> 095	\$0	\$447,011
Total Value:	\$962,122	\$1,040,996	\$41,601	\$0	\$2,044,719
	Total	Values Acros	ss All 3 Uses		
	500.005		22.052	22.257	
# of Acres:	503,205	545,556	28,063	32,267	1,109,091
% of Total:	45%	49%	3%	3%	100%
Direct Value:	\$1,008,902	\$1,174,153	\$517,450	\$11,853,495	\$14,554,000
Indirect Value:	\$123,072	\$143,230	\$63,122	\$1,445,959	\$1,775,382
Induced Value:	\$316,706	\$368,581	\$162,434	\$3,720,955	\$4,568,676
GRAND TOTAL:	\$1,448,680	\$1,685,964	\$743,005	\$17,020,408	\$20,898,058

Table 7. Mono County Economic Effect By Land Ownership & Use

	Federal	Federal	City	Private	
	(BLM)	(USFS)	(L.A.)	Owner	TOTALS:
Alfalfa Hay					
# of Acres:	-	-	1,630	9,588	11,218
% of Total:	0%	0%	15%	85%	100%
Direct Value:	\$0	\$0	\$2,503,964	\$10,716,036	\$13,220,000
Indirect Value:	\$0	\$0	\$316,437	\$1,309,821	\$1,626,258
Induced Value:	\$0	\$0	\$432,049	\$3,279,633	\$3,711,682
Total Value:	\$0	\$0	\$3,252,451	\$15,305,490	\$18,557,940
		Pasture (Irri	gated)		
# of Acres:	4,509	5,977	20,700	23,067	54,253
% of Total:	8%	11%	38%	43%	100%
Direct Value:	\$338,853	\$449,174	\$1,468,478	\$1,733,495	\$3,990,000
Indirect Value:	\$41,335	\$54,793	\$183,434	\$211,462	\$491,024
Induced Value:	\$106,370	\$141,001	\$322,434	\$544,165	\$1,113,970
Total Value:	\$486,559	\$644,968	\$1,974,346	\$2,489,122	\$5,594,995
Pasture (Rangeland)					
# of Acres:	1,276,097	764,636	206,964		2,247,697
% of Total:	57%	34%	200,904 9%	- 0%	100%
Direct Value:	\$1,512,988	\$969,009	\$230,003	\$0	\$2,712,000
Indirect Value:	\$188,262	\$119,276	\$230,003	\$0 \$0	\$2,712,000 \$336,478
Induced Value:	\$188,282			\$0 \$0	
		\$269,686	\$43,782		\$669,250
Total Value:	\$2,057,032	\$1,357,972	\$302,724	\$0	\$3,717,728
	lotai	Values Acros	s All 3 Uses		
# of Acres:	1,280,606	770,613	229,294	32,655	2,313,168
% of Total:	55%	33%	10%	1%	100%
Direct Value:	\$1,851,841	\$1,418,183	\$4,202,445	\$12,449,531	\$19,922,000
Indirect Value:	\$229,598	\$174,069	\$528,811	\$1,521,283	\$2,453,761
Induced Value:	\$462,152	\$410,687	\$798,265	\$3,823,798	\$5,494,903
GRAND TOTAL:	\$2,543,591	\$2,002,940	\$5,529,521	\$17,794,611	\$27,870,664

 Table 8. Mono & Inyo Counties' Combined Economic Effect By Land Ownership & Use

This long section has explored the nexus of land ownership, production type, and economic output. At the risk of oversimplifying the rich story told by more than 360 numbers, we offer the following four key findings:

- 1. Alfalfa hay is the most economically significant production use, by far. Alfalfa accounts for less than half a percent of all acres in production but contributes 66.6% of the total economic output.
- The federal government owns the overwhelming majority of land used for agricultural production (88.7%), but these lands are nearly all low value rangeland that contribute just 16.3% of agriculture's overall economic output.
- 3. Private landowners do not own rangeland, but rather focus solely on higher value alfalfa and irrigated pasture. For this reason, private lands account for 63.5% of all economic output despite comprising just 1.4% of the agricultural land.
- 4. LADWP lands play a critical, disproportionate role in agricultural economic output. LADWP owns just 9.9% of agricultural acres but 19.8% of agriculture's direct and indirect economic output occurs there. Thus, any changes in LADWP leasing policies would have significant consequences for agricultural economic output.

6. What contributions does agriculture make through local employment and taxes?

In addition to economic output, agriculture also contributes to the local economy through employment and taxes. How many jobs does agriculture directly and indirectly support? What effect does agriculture have on tax revenues?

The tables below detail employment. They include induced and indirect jobs, calculated using IMPLAN's employment multipliers which differ across counties and production sectors. For Inyo County (**Table 9**), agriculture supported 140 direct jobs plus an additional 65 from multiplier effects, for a total of 205 jobs. These numbers encompasses a wide range of production-related jobs, including not just growing and harvesting, but also sales, marketing and many other roles.

	INYO Agricultural Employment			
	DIRECT	INDIRECT	INDUCED	TOTAL
	Effects	Effects	Effects	Employment
	Employment	Employment	Employment	Effect
Livestock & Livestock Products	46	29	13	88
Field Crops	55	8	9	72
Nursery Products	4	1	3	9
Apiary Production	8	0	1	9
Fruit & Nut Crops	12	0	0	12
Vegetable Crops	14	0	0	15
	140	38	27	205

Table 9. Employment Effect of Inyo County Agriculture

For Mono County (**Table 10**), agriculture supported 99 direct jobs and an additional 144 from multiplier effects, for a total of 244 jobs.

	MONO Agricultural Employment			
			INDUCED Effects	TOTAL Employment
	Employment	Employment	Employment	Effect
Livestock & Livestock Products	4.8	38	41	84
Field Crops	73.5	23	43	139
Fruit & Nut Crops	0.7	0	0	1
Forest Products	20.0	0	0	20
	99	60	84	244

Table 10. Employment Effect of Mono County Agriculture

For both counties combined (**Table 11**), agriculture supported 239 direct jobs and an additional 210 from multiplier effects, for a total of 449 jobs.

	COMBINED Agricultural Employment			
	DIRECT INDIRECT		INDUCED	TOTAL
	Effects	Effects	Effects	Employment
	Employment	Employment	Employment	Effect
Livestock & Livestock Products	51	67	54	172
Field Crops	128	31	52	211
Nursery Products	4	1	3	9
Fruit & Nut Crops	13	0	1	13
Apiary Production	8	0	1	9
Vegetable Crops	14	0	0	15
Forest Products	20	0	0	20
TOTALS:	239	99	111	449

Table 11. Employment Effect of Inyo & Mono Counties Combined

Taxes

Economic output has powerful implications for tax revenues. In general, the greater the economic output, the more money local, state, and federal governments have available to fund various public services. Using U.S. Bureau of Economic Analysis data as its foundation, IMPLAN calculates net taxes paid by individual sectors based on direct and multiplier output. **Table 12** shows estimated tax revenues attributable to Inyo County agriculture. With \$100,064 in State & Local taxes and \$1,586,167 in Federal taxes, Inyo agriculture accounted for a total of \$1,686,231 in tax payments.

Table 12. Tax Base Effect of Inyo County Agriculture

LOCAL & STATE TAXES PAID	by HOUSEHOLDS	by BUSINESSES	TOTAL
Social Security	\$7,296	\$14,741	\$22,037
Tax on Production and Imports		(\$399,181)	(\$399,181)
Personal Taxes	\$465,230		\$465,230
Corporate profits and dividends		\$11,978	\$11,978
Total Local & State	\$472,526	(\$372,462)	\$100,064
FEDERAL TAXES PAID	by HOUSEHOLDS	by BUSINESSES	TOTAL
Social Security	\$471,634	\$168,697	\$640,331
Tax on Production and Imports		(\$56,278)	(\$56,278)
Personal Taxes	\$928,039		\$928,039
Personal Taxes Corporate profits and dividends	\$928,039	\$74,075	\$928,039 \$74,075

Table 12 introduces several tax concepts that might be new to some readers. For example, "SocialSecurity" taxes are those that employees and employers make into the social insurance system. "Tax onProduction and Imports" refers to property taxes, fees, tariffs, and other business taxes. "PersonalTaxes" consist mostly of income tax. Please consult the authors for additional details.

Table 13 shows estimated tax revenues attributable to Mono County agriculture. With \$1,234,008 inState & Local taxes and \$3,617,601 in Federal taxes, Mono agriculture accounted for a total of\$4,851,609 in tax payments.

LOCAL & STATE TAXES PAID	by HOUSEHOLDS	by BUSINESSES	TOTAL
Social Security	\$5,293	\$10,694	\$15,987
Tax on Production and Imports		(\$101,661)	(\$101,661)
Personal Taxes	\$1,454,502		\$1,454,502
Corporate profits and dividends		(\$134,820)	(\$134,820)
Total Local & State	\$1,459,795	(\$225,787)	\$1,234,008
FEDERAL TAXES PAID	by HOUSEHOLDS	by BUSINESSES	TOTAL
Social Security	\$1,425,460	\$199,722	\$1,625,182
Tax on Production and Imports		(\$6,736)	(\$6,736)
Personal Taxes	\$2,834,931		\$2,834,931
Corporate profits and dividends		(\$835,776)	(\$835,776)
Total Federal	\$4,260,391	(\$642,790)	\$3,617,601

Table 13. Tax Base Effect of Mono County Agriculture

Table 14 shows estimated tax revenues attributable to Inyo and Mono agriculture combined. With \$1,147,816 in State & Local taxes and \$5,139,312 in Federal taxes, Inyo and Mono agriculture accounted for a total of \$6,287,128 in tax payments.

Table 14. Tax Base Effect of Inyo & Mono Counties Combined

LOCAL & STATE TAXES PAID	by HOUSEHOLDS	by BUSINESSES	TOTAL
Social Security	\$15,985	\$32,297	\$48,282
Tax on Production and Imports		(\$554,129)	(\$554,129)
Personal Taxes	\$1,704,976		\$1,704,976
Corporate profits and dividends		(\$51,313)	(\$51,313)
Total Local & State	\$1,720,961	(\$573,145)	\$1,147,816
		1	
FEDERAL TAXES PAID	by HOUSEHOLDS	by BUSINESSES	TOTAL
Social Security	\$1,699,506	\$445,265	\$2,144,771
Tax on Production and Imports		(\$55,762)	(\$55,762)
Personal Taxes	\$3,368,017		\$3,368,017
Corporate profits and dividends		(\$317,714)	(\$317,714)
Total Federal	\$5,067,523	\$71,789	\$5,139,312

7. What economic relationships exist within agriculture that straddle both counties?

Inyo and Mono Counties look separate on a map but their economies have invisible connections. Just as tourists, wildlife, and other things flow across the boundary, so too do economic goods and services. We are not aware of any rigorous attempts to document cross-county economic linkages involving agriculture. This section helps fill part of that knowledge gap and focuses on cattle grazing. We use two approaches: 1) a straightforward, linear analysis based on numbers of acres, level of inter-county livestock production, and their economic values; and 2) an integrated, input-output model of livestock-related connections between the two counties.

Why is this important? Cross-county interdependencies raise the stakes for any policy changes. What occurs in Mono can affect Inyo, and vice versa. Previous sections have shown the livestock industry's high dependency on leasing grazing lands from USFS and LADWP. If one of these entities pulls land out of production in one county, and that land was used by one of the region's 19 cross-border ranching operations, then it would create ripple effects in the other county. The operator might no longer move the herd to the other county, which in turn could create cascading effects of various kinds within and beyond the ranching industry. The rancher may incur greater costs for supplemental feed, straining already thin margins. Indeed, some ranchers have reduced herd size or even moved herds out of state due to limited availability of grazing lands. The key point is that pulling an acre of pasture out of production can affect operations in both counties and removes not just the value of not just the field crop, but also the livestock that depend on it.

Linear Approach

Quantifying the economic value of cross-county interdependencies is not an exact science. One way to do it is to assume a straight, linear effect. Calculating the economic impact in this manner entails creating a long formula that combines 36 separate variables.

- The direct \$ value of economic output attributable to an acre of each of three kinds of field crops (alfalfa hay, irrigated pasture, rangeland), in each county (6 variables).
- the \$ value of two multiplier effect types (induced and indirect) attributable to an acre of each of three field crops (alfalfa hay, irrigated pasture, rangeland), in each county (12 variables).
- The per acre direct production value for the cattle from each county that depend on each of the three field crop types (alfalfa hay, irrigated pasture, rangeland) on that particular land, for at least part of the year, plus induced and indirect multiplier effects (18 variables).

The calculations are complicated and time-consuming, and performing them for every combination of crop and land ownership lies beyond our scope here. Nevertheless, they allow us to say things like the following:

- LADWP owns an estimated 1,630 acres of alfalfa in Inyo County. If LADWP were to remove part of that land from production, then it would create combined losses for the two counties totaling \$10,525 per acre removed from production. Inyo County agriculture would lose \$6,748 per acre in direct output plus \$3,776 in multiplier effects for a total of \$10,525 per acre. No losses would occur in Mono County, since cattle there do not normally use LADWP's alfalfa acres in Inyo County.
- LADWP owns an estimated 14,200 acres of irrigated pasture in Inyo County. If LADWP were to remove part of that land from production, then it would create combined losses for the two counties totaling \$1,657 per acre removed from production. Inyo County agriculture would lose \$767 per acre in direct output plus \$465 in multiplier effects for a total of \$1,232 per acre. Based on the extent to which Mono cattle depend on LADWP's irrigated pasture lands in Inyo, Mono County livestock production would lose \$226 per acre in direct output plus \$199 per acre in multiplier effects for a total loss of \$425 per acre of irrigated pasture removed from production.

Holistic Approach

The section explores production of field crops as if each comprises its own micro-economy consisting of just one product with isolated effects. This section takes a more integrated approach. It analyzes "livestock production" as a whole rather than by its individual components like alfalfa, irrigated pasture, and rangeland. This process entails sophisticated modeling that accounts for complex economic interactions and effects.

Economists use the term "negative shock" to describe events like the significant reduction in livestock production that we model here. Such shocks can and do occur in a wide range of industries. They take many forms in agriculture. Examples include weather-related events such as droughts and floods, foodborne illness outbreaks, game-changing technological advances, influxes of lower cost imports, or major policy changes. These and many other events can create rapid, dramatic changes in economic output. For our purposes here, we focus on a reduction in livestock production due to fewer acres of grazing land available for ranchers to lease.

When such events occur, consequences ripple beyond the industry in which they originated. For example, a negative shock to pasture and livestock could make farmers and ranchers less able to make payments to their employees, suppliers, contractors, and lenders, who in turn, might pass those ripples onto others. This, in turn, can strain those other industries. The nature and extent of these complex effects depends on economic interdependencies and spillover effects across sectors.

Fortunately, IMPLAN's powerful software makes such modelling possible. In order to simulate a negative shock to Inyo and Mono grazing and livestock, we built an input-output model to represent their combined economy. The model includes 536 economic sectors from IMPLAN. To "shock" the system, we impacted the model with a \$1.0 million reduction in the value of economic output from livestock in each county, for a total of \$2.0 million. We put this "shock" into IMPLAN's sector #11 ("Beef cattle ranching..") then let it ripple through the other 535 economic sectors.

According to the model, a combined \$2.0 million shock to livestock production (e.g., through nonrenewal of grazing leases) would cost \$3,381,060 (including direct, indirect and induced effects) in lost economic output and 17 jobs across various economic sectors within the two counties. It would also cost \$113,998 in lost tax revenues as affected industries such as retail, banking, insurance, and other sectors engage in slightly lower levels of taxable business activity.

The results scale in proportion to the shock. For example, if we simulate a \$10.0 million shock instead of just \$2.0 million, representing nearly 50% of the two counties' combined annual livestock production value, then the losses would rise to \$16,905,300 in output and 85 jobs, plus \$569,990 in foregone tax revenues.

Regardless which approach one uses, linear or holistic, economic connections between the two counties mean that what happens to agricultural lands in one will reverberate through the other as well.

8. What "ecosystem services" do agricultural lands provide to society?

So far, we have discussed "market" values of Inyo and Mono County agricultural lands, i.e. goods and services that people can easily buy or sell. Agricultural lands also produce "non-market" services, i.e. things that we do not normally buy or sell but nevertheless have significant value. This section explores a category of non-market values called ecosystem services. If does three things: 1) introduce the concept and its overall use; 2) describe types of ecosystem services likely to occur on Inyo and Mono agricultural lands; 3) provide a suggested methodology for quantifying the dollar value of ecosystem services provided by Inyo and Mono agricultural lands. On the whole, section takes an initial step toward greater recognition of the myriad non-market economic contributions that agriculture makes to society.

Introduction to Ecosystem Services

Several definitions exist but we focus here on the one used by the California Department of Food and Agriculture (CDFA), in particular its Environmental Farming Act Science Advisory Panel. CDFA defines ecosystem services as "the multiple benefits we gain from farming and ranching including crop and

livestock production." This definition acknowledges that management decisions and conservation practices by farmers and ranchers provide open space, wildlife habitat, recreational opportunities, and many other benefits to society that often go uncounted.

Recognizing the importance of ecosystem services in agriculture, the U.S. Department of Agriculture (USDA) has launched multiple initiatives to elevate our understanding of these functions. These include designing and testing new markets for greenhouse gases, water quality, biodiversity, and habitats. A key priority (and Farm Bill requirement) is to create a system for quantifying, registering, and verifying environmental benefits produced by land management activities. USDA believes such a system could lead to multiple benefits, including becoming a new economic driver for rural America.

California is on the forefront of supporting and valuing ecosystem services on agricultural lands. In August 2011, the California Department of Food and Agriculture (CDFA) created the Environmental Farming Act Science Advisory Panel (EFA-SAP). The panel exists to document, study, recognize and incentivize environmental stewardship efforts on farms and ranches. For example, the panel has developed a Qualitative Assessment Model (QAM) to identify ecosystem services provided by various farming practices. The QAM illustrates the net environmental benefits from management practices implemented by growers and ranchers to enhance the environment. This in turn, can help CDFA educate a wide audience about net social, economic and environment benefits (and tradeoffs) of on-farm management practices.

In 2013, CDFA announced what is believed to be the nation's first ecosystem services database for agriculture. The CDFA Ecosystem Services Database documents and communicates the many social and environmental benefits offered by growers and ranchers in California, including food production. One on hand, the new database helps CDFA discuss multiple benefits provided by California agriculture. On the other hand, it assists growers, ranchers and others who want to learn more about ecosystem services.

Information in the database comes from farm and ranch websites, growers who voluntarily enter their farm details via the website, and online case studies. Users can search the database by key word and categories as well as through the interactive map. The database then identifies different benefits from the farm management practices, such as, food, fiber, fuel, nutrient cycling and water quality for each farm. An interactive map allows users to view where the services are taking place throughout California.

At the time of writing, the database contained only one example from Inyo or Mono: the 6,350-acre Dressler Ranch (**Figure 2**). Located in Bridgeport Valley on the east slope of the Central Sierra Nevada, the historic Centennial/Dressler Ranch provides several ecosystem services, including wetland habitat and miles of riparian areas along waterways such as the East Walker River.

Figure 2. Sample Ranch in the CSFA Ecosystem Services Database



ECOSYSTEM SERVICES DATABASE

NOTE: At the time of writing, CDFA's Ecosystem Services database had 400 California farms but only one in Mono County and none in Inyo County. CDFA encourages growers and ranchers to visit the website, enter their farm details, and gain recognition for their ecosystem service SOURCE: <u>https://apps1.cdfa.ca.gov/EcosystemServices/</u>

Ecosystem Services in Inyo and Mono Counties Agriculture

The discussion so far has provided a general overview of ecosystem services and how federal and state agencies support them. This section drills down to the deeper level. Based on CDFA's categories, it describes specific types of ecosystem services that agricultural lands provide in Inyo and Mono Counties.

Figure 3. Ecosystem Services Provided by Inyo and Mono Counties' Agricultural Lands (figure continues on next page)



Wildlife Habitats

Provide habitats for resident and transient widlife populations, especially with riparian areas and perennial vegetation.



Nutrient Cycling Store, transform, and cycle important nutrients in the soil such as carbon, nitrogen and phosphorus.



Water Cycling

Unlike pavement, agricultural vegetation maintains soil moisture, enhances water storage, and reduces runoff.



Biodiversity Conservation Promoting a diversity of plants and animals

can provide beauty, stability, disease prevention, and other benefits.

Recreation & Cultural

Agricultural lands provide places for wildlife viewing, nature hikes, entertainment, education, and many other activities.



Food Production

Agricultural lands provide nutrients and energy to sustain a growing global population.



Fuel Production

Agricultural lands produce renewable energy, for example solar, wind, and biofuels.



Soil Health

Well managed soils can sequester carbon, reduce erosion, prevent landslides, purify water, and deliver many other benefits.



Atmosphere Regulation

Soils, crops and surrounding vegetation affect local temperatures and precipitation while also sequestering greenhouse gases.







Pest Control

Agricultural lands provide habitat for raptors, beneficial insects, and other wildlife that help control pest populations.

Pollination Services

Agricultural lands provide nesting habitat and floral resources for wild pollinators such as bees, bats, and birds.



Water Quality

Well-managed agricultural lands can reduce salinity and organic/inorganic constituents in surface and ground water.

Each category contains many sub-elements. In a specific example, Inyo and Mono agricultural lands help with air quality by abating dust. Also, many of the categories above consist of multiple, smaller categories. The box below, for example, describes nine different kinds of "Recreation & Cultural" services that Inyo and Mono Counties agricultural lands provide.

BOX: Specific Examples of "Recreation & Cultural" Ecosystem Services

- Cultural Diversity. Local agricultural diversity supports rich cultural diversity rooted in • ranching, farming, and other cultures.
- Spiritual and Religious Values. Many residents have a profound relationship with the • land that includes a powerful spiritual or religious component.
- Educational Value. Schools and local communities explore and study the county's • agricultural landscapes, using them as living laboratories.
- Local Historical Value. Generations of growers and ranchers working the land have • provided valuable local knowledge that is not written in books, but rather passed down.
- Inspiration. The county's striking agricultural landscapes provide a rich source of inspiration for art, folklore, architecture, music & advertising.
- Recreation and Ecotourism. Agricultural lands help support ranch stays, horseback riding, bike rides, and other leisure activities.
- Aesthetic Values. Beautiful agricultural landscapes provide critical "open space" for the • community, even to the point of affecting where people decide to live.
- **Sense of Place.** Many residents value the "sense of place" associated with the county's striking landscape, including its beautiful agricultural lands.

Assigning Dollar Values to Ecosystem Services

Economists have attempted with varying success to assign monetary values to benefits from ecosystem services. Studies have quantified the value of recreation, impact on property values, natural water filtration, aesthetic values and other many other benefits. The total value of all ecosystem services worldwide is estimated to surpass \$33 trillion per year.

This raises an important question: what is the annual dollar value of ecosystem services provided by agricultural lands in Inyo and Mono Counties? No one has yet attempted to answer this question. Collecting primary data on every ecosystem service type would require considerable time and effort. Fortunately, economists have developed a cost-effective approach that takes full advantage of existing research. Called the Benefit Transfer Methodology, the approach estimates economic values by transferring existing benefit estimates from studies already completed for another location or issue.

For example, if several studies have already quantified the per acre value of ecosystem services on cattle ranches in Nevada, Wyoming, Arizona, or elsewhere in California, then perhaps some findings may transfer to Inyo and Mono cattle ranches, given reasonable changes in the weightings based on differences among the cattle ranches.

Applying the Benefit Transfer Methodology in Inyo and Mono Counties would entail three steps. First, researchers would document types and amounts of ecosystem services provided by the county's agricultural lands. How much carbon sequestration takes place? How many tourists visit local farms and ranches? What's the dollar value of helping keep dust on the ground instead of blowing through the air? How many people attend farmers markets and related cultural events? This step entails counting acres, species, people, events, and other things. Some of this information may already exist in the offices of local non-profit organizations, university researchers, and government agencies.

The second step would entail reviewing existing literature to determine dollar amounts typically attributed to each ecosystem service. This requires locating and reviewing a large number of studies, perhaps as many as several hundred scholarly publications. It also involves screening each study for its relevance and quality, and determining how applicable they are to Inyo and Mono Counties. Several databases and software programs can help inform and validate estimates. Examples include InVEST (www.naturalcapitalproject.org) and ARIES (www.ariesonline.org).

The final step is to "localize" these values. This entails assigning dollar values to ecosystem services provided by the county's agricultural lands. Transferring the results of other studies to Inyo and Mono Counties requires making careful, systematic judgments regarding the relevance and credibility of

specific measures from other sites and studies. It's a rigorous approach using a decision-tree that considers the quality of the study site data and the correspondence between the study site and Inyo and Mono Counties. One must check each study for data issues, site correspondence issues, temporal issues, and spatial issues.

The bottom line is that the methodology combines complexity and rigor with feasibility and costeffectiveness. In summary, to determine what the annual dollar value is of each of the ecosystem services provided by the county's agriculture would require a significant amount of resources. The cost may range from \$35,000 to \$50,000 for a desk study that utilizes existing methodology and literature (Benefit Transfer Methodology), or more than \$250,000 for a comprehensive study that generates primary data.

A Final Word on Ecosystem Services

This section has described several aspects of ecosystem services on agricultural lands. The five main points are:

- USDA, CDFA, and other key agencies are providing tools, momentum, and high level support for valuation of ecosystem services.
- Agricultural lands in Inyo and Mono Counties provide several types of ecosystem services to society, all of which directly support human well-being. Many residents and visitors may take these benefits for granted and have never before seen them listed as they are here.
- All these ecosystem services make an extremely large economic contribution to Inyo and Mono Counties every year, but no one has yet attempted to quantify the total dollar value of this contribution.
- We have described a rigorous, cost-effective methodology for calculating the annual dollar value of ecosystem services provided by agricultural lands.

9. How economically diverse is agriculture?

Economists disagree on things but there's one thing they all can agree on: a diverse economy is a resilient economy. Any region that depends on a large number of economic sectors reduces risk of catastrophic shocks. This important economic principle applies to agricultural diversity, too. For example, a county with just one or two main crops faces higher vulnerability to shocks in the form of price drops, disease outbreaks, new regulations, new competitors, spikes in the cost of key inputs, and other unpleasant surprises. Meanwhile, a county with a diverse agricultural industry can withstand shocks to certain crops without unraveling the entire agricultural economy. Bottom line: having "all your eggs in a single basket" is never a good idea, especially when it comes to something as economically important as agriculture.

Unfortunately, robust measures of Inyo and Mono Counties' agricultural diversity do not exist, let alone the total economic value of such diversity. People see assorted crops growing in well-tended fields. They see cattle grazing and farmers markets overflowing with different kinds of food. But no one has attempted to quantify that diversity or its economic value. Part of the reason is that measuring diversity is a complex job. It requires more than just counting the different things for sale at the farmers market or listed in the annual *Crop and Livestock Report*. Measuring diversity includes the number of different crops grown as well as the assessing their economic *abundance* or *evenness*.

For example, imagine two California counties where the annual farm production value is \$100 million each. Both counties grow ten different kinds of crops. In County "A," a single crop contributes 91% of the revenue and the nine other crops make up 1% each (see **Figure 4** below). In County "B" the ten crop types all contribute equally, at 10% each. *Both counties have the same number of crops and total revenues, but County "B" has much higher economic diversity*. Thus, we could expect County "B" to be much more resilient to economic shocks than County "A".

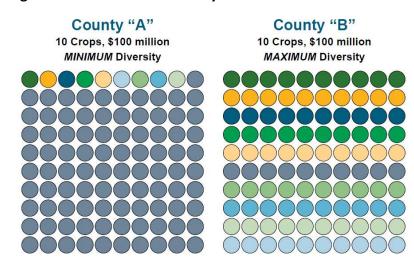


Figure 4. Agricultural Economic Diversity is More Than Just the Number of Crops

Because economic diversity is so important, economists have developed sophisticated tools for measuring it. The most popular one is a summary statistic called the Shannon-Weaver Index. The index stems from the Shannon-Weaver entropy function, which was created in 1949 and is widely used in both ecology and economics. Economists and ecologists alike use the formula to calculate the Shannon-Weaver Index, which we share here and can explain further to interested readers:

$$SW_t^k = -\sum_{n=1}^k p_n * \ln (p_n)$$

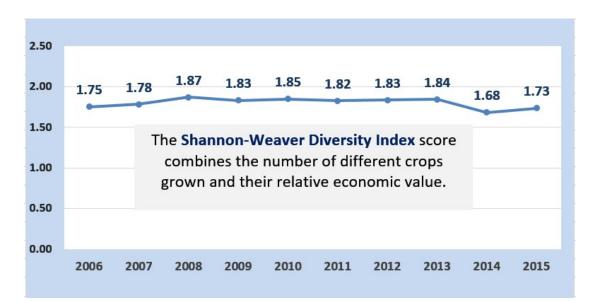
The lowest possible index score is 0.00. Zero represents an extreme case where all economic output occurs in only one sector. In ecology, this would be a forest with only one species. In agriculture, it would be a county with just one commercial crop. The other extreme – an open system where potential diversity is unlimited – would have a much higher score. The higher the score, the greater the diversity.

To measure agricultural diversity in Inyo and Mono Counties, we started by creating a list of specific products mentioned in the annual *Crop and Livestock Report*. We only used products for which production values were provided for the past decade, even though the total number of commercial products is certainly much larger. For example, we tracked alfalfa hay from its 2015 total (\$13.2 million) all the way back to 2006 (\$10.3 million), for each county individually as well as combined. Careful lumping and splitting resulted in 15 different categories consistently reported over the past decade. Next, we applied the list of products and their production values to the formula above. This resulted in a 2015 Shannon-Weaver Diversity Index score of **1.73**.

By itself, the index score says little. Where it comes in handy is making external and internal comparisons. Internally, the agricultural community can track the score over time to ensure that overall diversity is at the level stakeholders want. Maintaining high economic diversity in agriculture will minimize the risk of significant economic shocks. It's an insurance policy against economic earthquakes.

Speaking of earthquakes, note that formula above includes a logarithmic function ("In"), similar to the Richter Scale for measuring earthquakes. Many Californians understand that a 7.4 earthquake releases twice the energy of a 7.2 earthquake even though the numbers are not far apart. The same principle applies to Shannon-Weaver Diversity Index scores: a tiny numeric difference represents a big change.

Figure 5 shows how the Shannon-Weaver Diversity Index score has fluctuated over time. It has remained essentially flat over the ten-year period, starting and ending near the same general level (1.75 to 1.73). This suggests a generally stable level of economic diversity within agriculture. Note that the diversity index climbed slightly from 2008 to 2013 before returning to normal levels. This does not mean that more product types were being grown at that time, but rather that existing products balanced their respective pieces of the economic pie. We have calculated scores for several California counties and rarely see such a steady overall trend. Scores for many counties have dropped over time as a small number of crops gained economic prominence, for example strawberries in several coastal counties.





A discussion of the Shannon-Weaver Diversity Index should include caveats and limitations. Although this index provides a useful measure of the county's agricultural diversity over time, comparisons to other counties are problematic due to different methods of reporting. Counties vary in the level of detail with which they report their agricultural products. The more economically important an agricultural product is, the greater detail with which counties tend to report it. For example, Inyo and Mono Counties lump wine grapes with other products in a single "Miscellaneous" Fruit & Nut Crops category. Major wine-producing counties such as Napa and Sonoma, however, specify production values across several different wine grape types, which raises their diversity score.

Caveats aside, the key points combine good news with not so good news. The 1.73 score is low compared to others we have seen. This means that compared to other California counties, Inyo and Mono agriculture faces high vulnerability to economic "shocks" such as those discussed earlier. On the upside, the score has remained stable over the past decade, with no sign of decline.

10. What options exist to add economic value to local agricultural production?

As Section #9 detailed, Inyo and Mono agriculture has low economic diversity, which puts the agricultural economy at risk. Droughts, recessions, and other "shocks" may inflict even worse damage than they otherwise would. Any efforts to strengthen agriculture though economic diversification could help address this challenge.

Local policy makers, agricultural producers, and other stakeholders have long expressed interest in economic diversification. Even the Mono County General Plan lists a strong and diverse economy as a top strategic direction. Mono's latest economic development strategy also calls for diversifying the economy and creating a regional food system (see www.monocounty.ca.gov). These mandates underscore the region's commitment to addressing this vulnerability.

Despite longstanding interest and high-level mandates, little agricultural diversification has occurred. Stakeholders understand the need to diversify and the exciting opportunities it presents, but conditions on the ground have not changed. Reasons vary but a lack of knowledge could be part of the problem. Few stakeholders probably know the range of diversification options already discussed and attempted in Inyo and Mono. Even fewer stakeholders might grasp the rich diversity of proven options that ranchers and farmers in other locations have developed. In short, the current state of knowledge about diversification opportunities is anecdotal and scattered.

This section takes a step toward filling that knowledge gap and consists of three components. First, we provide background on agricultural diversification, including a typology of five main strategies. Second, we describe 21 tactics within the five broad diversification strategies – specific approaches that farmers and ranchers have successfully used. Third, where relevant we include discussion of how various tactics apply in the Inyo and Mono context. We hope the content provides a common framework and jumping off point for future discussions by local farmers, ranchers, non-profit staff, agency staff, and others interested in economic strength through diversification.

Background and Conceptual Framework

Methods: Developing this section consisted of three main methods. First, we consulted local experts from a range of public and private sector organizations. The experts represent decades of experience and deep knowledge of agriculture's past, present, and potential future. Second, we reviewed the relevant academic and gray literature. Gray literature included annual reports, evaluations, business plans, white papers, websites, government policies, and a local beef feasibility study. Within the vast academic literature, we focused mostly on agricultural diversification studies. Hundreds of publications have documented challenges faced by farms and ranches in the U.S. West and beyond, and have explored economic diversification as a potential solution. We found more than thirty articles just on **Tactic #1** below, diversification of **grazing systems**. If we could pick just one article for stakeholders to read, it would be a 2012 piece by Sayre *et al.* titled, "The Role of Rangelands in Diversified Farming Systems: Innovations, Obstacles, and Opportunities in the USA." We consider this review article to be the definitive piece on agricultural diversification. It emphasizes ranching but applies to farms, too. Our typology of strategies and tactics stems mostly from this article, as do many of the examples. We adjusted their typology in various places but kept it mostly intact. Finally, we drew from our extensive professional experience with this topic. This includes, for example, economic studies we have completed for several California counties. The studies all included a section on "locally sourced, value-added food processing." For each study, we calculated the direct economic output from a county's food processing activities, as well as employment and multiplier effects. These analyses covered diverse production types, from boutique wineries in San Diego County, to sheep and lamb processing in Solano County, to triple-washed leafy greens in Monterey County.

Our experience extends far beyond California. One co-author (Jeff) has visited ranches across the U.S. West and in over a dozen countries to document economic diversification strategies. From Kansas to Kenya, California to Costa Rica, Nebraska to Namibia, he has identified over 24 alternative revenue streams that ranchers have developed. Many of these do not appear in any published literature.

Three caveats are in order. First, this does not pretend to be an exhaustive discussion. We mention current diversification examples from Inyo and Mono but the list is not complete. The same applies to examples in the U.S. and beyond. Farmers and ranchers try new things all the time and we cannot possibly know about every project. We welcome additions to the list. Second, a rigorous analysis of local diversification opportunities lies well beyond our scope here. By design, we do not rate or rank the options, perform feasibility tests, or even make detailed recommendations. Instead, we provide the menu of diversification options for local stakeholders to consider, with a few general recommendations at the end.

Figure 6 shows the five main agricultural diversification strategies based on the Sayre *et al.* 2012 article mentioned above. These major categories provide a useful framework. We liken them to the annual *Crop and Livestock Reports* that California counties produce each year. Those reports tend to lump dozens of agricultural products into the same five or six major categories such as Fruit & Nut Crops, Vegetable Crops, Animal Products, Nursery Products, Field Crops, and so on. Doing so provides a valuable structure, common language, and shared understanding. The same principle applies here. The following five sections go through each strategy in turn.

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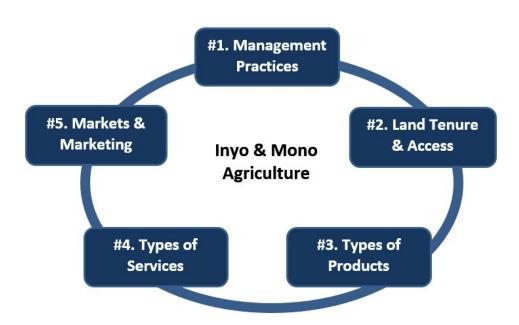


Figure 6. Five Major Strategies for Agricultural Diversification

Source: adapted from Sayre et al. 2012. "The Role of Rangelands in Diversified Farming Systems: Innovations, Obstacles, and Opportunities in the USA." Ecology and Society 17(4): 43.

STRATEGY #1. Diversification through innovative management practices.

Focused on ranching, this strategy entails adjusting the timing, frequency, and intensity with which livestock eat, as well as the grazing location. It takes many forms in the U.S. but the various approaches tend to have a few things in common. For example, the new management approach may emphasize reducing operating costs for purchased inputs, human labor and other factors. A second common theme entails improving rangeland productivity by restoring riparian and other damaged areas. Finally, many ranchers innovate around environmental sustainability practices that generate additional income, for example ones that increase ecosystem services (Section #8) in ways that augment direct income.

 Tactic #1 – Grazing systems. Ranchers move livestock around on a regular basis depending on myriad factors. Recent innovations, however, have taken movement patterns to a new level of sophistication and effectiveness. Thousands of ranchers in the U.S. and far beyond now use an approach called Holistic Management (see <u>www.holisticmanagement.org</u>). Also known by various other names such as regenerative agriculture and planned grazing, the concept entails grazing cattle in ways that mimic natural processes. In particular, this type of grazing mimics herds of bison, elk, wildebeest, and other wildlife that created and maintained the world's grasslands for millennia. The idea is to have dense livestock herds that move quickly from one area to the next. Animals bunch close together, mimicking protection from predators, for example bison defending themselves from wolves or wildebeest surrounded by lions. Stocking rates run four times denser than what California ranchers typically use, with significant financial implications.

According to chief proponent Alan Savory and many scientific studies, the short duration, intensive grazing approach can increase ground cover, improve water retention, enhance soil organic matter, replenish streams, and protect biodiversity, all while increasing ranch revenues. Savory's 2013 TED talk "How to Fight Desertification and Reverse Climate Change" lays out his approach and has 3.9 million views. It is well worth the 22 minutes.

Not surprisingly, several skeptics have called Savory's bold claims into question. Only time and additional empirical studies will determine which way the scientific consensus leans. Meanwhile, our direct experience stems from time spent at three California ranches that practice holistic management: the 4,000-acre Dorrance Ranch, the 10,000-acre Paicines Ranch (<u>www.paicinesranch.org</u>), and the 20,000-acre Santa Lucia Preserve (<u>www.slconservany.org</u>). To a lesser extent, we have also observed it at the 50,000-acre Segera Ranch in Kenya (<u>www.segera.com</u>).

On the upside, we witnessed this grazing approach restore heavily degraded lands back to productivity. It was especially striking to see ranches with clumps of deep rooted, perennial grasses that stayed lush and green throughout California's recent drought while nearby annual grasses turned brown. Results like this have significant cost saving implications for Inyo and Mono ranchers who cut hay and supplemental feed part of the year. On the downside, the frequent movement of herds and their electric fencing requires extra labor and planning. It also takes time, effort, and patience to train the cattle when and where to move.

 Tactic #2 – Multispecies grazing. Many ranchers have diversified the types of species they stock. Instead of just cattle, they add goats, sheep, and other livestock. Mixing browsers with grazers diversifies herbivory impacts and tends to mimic natural, ecological processes. Joel Salatin's "Polyface" system offers a prominent example of this mix-species approach (see www.polyfacefarms.com).

Sheep sound fine in theory but can cause serious concerns locally. Mono sheep and lambs accounted for \$2.1 million in value for 2015 but face new restrictions on grazing opportunities that could limit production after 2017. After careful deliberation, the Mono County Board of Supervisors voted in March 2017 to terminate domestic sheep grazing on the county's Conway Ranch property. The decision came based on ample scientific evidence that the domesticated sheep could transmit pneumonia to endangered Sierra Nevada bighorn sheep located in and around nearby Lundy Canyon.

Tactic #3 – Matching livestock numbers and needs to variable forage conditions. Although
ranchers constantly adjust herd sizes and movements, this tactic entails more rigorous matching of
herd size and the timing of grazing with forage quantity and quality. Forage quality varies widely
across locations and years. With this approach, ranchers track the nutritional quality of rangeland
then adjust stocking accordingly. The goal is to ramp grazing demand to match peak nutritional
availability then dial it back down as the peak ebbs. In short, this tactic is a more concerted
approach to the forage balancing act that ranchers already do. Many ranchers are subscribe to
"Herd Quitter," a popular newsletter on the topic by rancher Kit Pharo (see www.pharocattle.com).

STRATEGY #2. Diversification of land access and tenure arrangements.

This strategy entails diversifying beyond simple fee ownership of land, embracing a wide range of land rights that create flexibility and stability. Ranchers in the western U.S. rarely own enough land to support their herds throughout the year and that is especially the case in Inyo and Mono. As Section #5 noted, private ownership accounts for just 1.9% of all Inyo County acres 6.5% of Mono. By necessity, local ranchers rely on multiple tenure arrangements that combine public and private lands, ownership and leases. These allow them to use different elevations and vegetation types according to seasons and weather patterns. Although ranchers already use tenure diversity to a certain extent, others options exist.

- Tactic #4 Conservation easements. A conservation easement is a voluntary agreement between a landowner and a qualified land trust, conservation group or government agency regarding the future uses of private property. A rancher or farmer who grants a conservation easement gives up development rights but keeps full ownership of the property as well as rights to live there, produce crops and livestock, and other activities. Among other things, locking up the development rights lowers the appraised value of the property, creating significant property tax benefits for the landowner. Thousands of farmers and ranchers in California and elsewhere have secured conservation easements through the Rangeland Trust (www.rangelandtrust.org) and many other organizations, including ones specializing in Agricultural Conservation Easements (ACE) for farmlands. In Mono County, the 6,350-acre Centennial / Dressler Ranch featured in Section 9 (Figure 2) provides an example of a local ranch under a conservation easement.
- Tactic #5 Shared or common property regimes. Popular overseas, common property regimes have existed for centuries but U.S. ranchers have not used them much. That is changing somewhat as more ranchers band together for the common good. Sayre *et al*. describe an association of 40 ranchers that jointly leases grazing allotments on federal lands. They run their stock together, using less labor than what they would need to do so individually. When the grazing season ends, they sort the cattle move them home or to other pastures.

For more than a century, a group of Wyoming ranchers has jointly moved its cattle 58 miles from spring pasture on the desert to summer pasture in the forest. The collaborative approach by the Upper Green River Cattle Association ranchers allows them to move cattle across lands under a range of jurisdictions, including lands owned by BLM, National Forest Service, State of Wyoming, and private landowners (see www.greenriverdrift.org).

- Tactic #6 Grassbanks. A grassbank is an area of rangeland set aside by a public agency or conservation organization that ranchers can use under certain conditions. Just as a bank might lend money, a grassbank "lends" forage to ranchers. They do so at below market rates in exchange for ranchers agreeing to support certain conservation practices on their own properties. The Nature Conservancy pioneered the concept in 2002 on its 60,000-acre Matador Ranch in Montana. Local ranchers pay discounted fees to graze cattle on the Matador. In return, they implement wildlife-friendly practices on their own operations. As ranchers implement more conservation practices at home, their cost to lease the Matador grazing lands drops proportionally.
- Tactic #7 Ownership partnership. This tactic entails a farmer or rancher engaging an organizational partner in ownership of the property. Common partners include government agencies at the federal, state, or local level, tribal authorities, and colleges or universities. The key advantage is that an ownership partner can bring significant financial, intellectual, and other resources that help reduce the rancher's costs and strengthen revenues. Ranchers and farmers continue to live on the land, producing livestock and crops as they always have. But they incur fewer costs for upkeep, taxes, and other common expenses. They also enjoy greater opportunities through research, education, and other compatible activities that the partner organization implements onsite.

STRATEGY #3. Diversification of products.

This strategy consists of farmers and ranchers resisting long-term trends and market pressures that favor sale of a single commodity of uniform size, shape, color. Instead, they produce a diverse range of plant and animal products.

Tactic #8 – Mixed or minor breed cattle and crops. Rather than produce genetically similar calves destined for feedlots, as most U.S. rangeland ranching does, this tactic uses mixed or minor breed cattle such as Murray Gray, Belted Galloway, and Laola. Ranchers in the American Criollo Beef Association, for example, produce the hardy, desert-adapted Criollo breed of cattle, which is originally from Andalusia, Spain and first brought New World by Christopher Columbus (see www.leanandtenderbeef.com). Ranchers also create locally adapted herds of conventional breeds,

for example by culling for smaller animals that fare better with limited forage or during droughts. Overseas, we have seen this with Nguni cattle in Swaziland and other southern Africa countries, a local breed resistant to drought and disease.

In crop production, many farmers have shifted to heirloom and other traditional varieties that appeal to consumers who prefer a more traditional, often tastier, product. In Inyo County, the Bishop Paiute Tribe has been encouraging members to save traditional plant seeds that help preserve culture and could fill future niche markets.

Tactic #9 – Multiple livestock species. This tactic moves beyond traditional livestock such as cattle, goats, and sheep (Tactic #2) to include many exotic ones. Ranchers and farmers add hogs, bison, chickens, and others, in some cases herds of bison and elk. Under certain circumstances, these unusual products can increase incomes, sustain ecological resources, and reduce risk.

For example, a report we recently completed on the economics of Solano County agriculture noted a boutique goat farm that produces a wide range of cosmetics made from goat milk. The product line started with goat milk soap. Over the years, it has grown to include other goat milk products such as bath powders, body butters, salves, and lotions. Two other ranches produce and sell their own alpaca fiber, yarn, roving, and related products from alpacas. We have seen ostrich farms in California and southern Africa, and even a 400-acre Costa Rica ranch that produces large, treeclimbing iguanas for local restaurants and direct consumer sales.

- Tactic #10 Breeding stock. This tactic entails ranchers entering the market earlier in the animal lifecycle by selling breeding stock to other producers. Pharo Cattle Company, for example, has North America's largest selection of grass-based genetics. Semen from these animals can help ranchers reduce frame size, increase thickness, and improve calving ease, which in turn lower costs and increase profits (see <u>www.pharocattle.com</u>). An emphasis on breeding creates interesting hybridization opportunities. For example, the owners of Matheson Farms have crossed a bull from their Himalayan yak herd with a beef cow and now sell individually wrapped cuts of Yak Beef and ground Yak Beef (see <u>www.mathesonfarms.com</u>).
- Tactic #11 Value-added animal products. Few ranchers finish their own animals, but those who do can diversify into value-added animal products such as meat, pet food, bacon, and sausage. For example, the Sun Ranch north of San Francisco cuts, wraps, and sells a vast array of beef, poultry, pork, products, including specialty items such as pepperoni, jerky, and uncured hot dogs (see www.marinsunfarms.com). In Inyo and Mono, a few small, local markets will process meat for 4-H and FFA animals but no significant, commercial processing occurs. The Environmental Health Department confirmed that no meat processors are currently registered and permitted.

Local meat processing is an especially promising area for Inyo and Mono. Ranchers currently send cattle to Harris Ranch in the Central Valley or to the Walker River Meat Processing plant in Yerrington, Nevada. Many sales, if not most, now occur via video auction. As one local expert told us, "Our livestock go everywhere but here..."

In 2009, Inyo County commissioned a study to explore the feasibility of local meat processing. The resulting "Natural Livestock Feasibility Study" by Jeff Schahczenski is available online in PDF (see: https://attra.ncat.org/attra-pub/summaries/summary.php?pub=202). Despite the small sample size of just ten ranchers, the study offers interesting insights into capturing greater value through new products and markets, especially through sale of grass-fed, natural, and organic beef. For example, ranchers surveyed for the study preferred slaughtering services over marketing assistance. They also preferred a stationary processing facility over a mobile one. The 21 merchants that completed a survey indicated a preference for local meat products. A large ski resort in Mammoth, for example, expressed desire to purchase all local beef. It was unclear, however, if the price local merchants were willing to pay would justify the costs of a processing facility. A mobile facility could cost \$250,000, a stationary one \$300,000 to \$1.5 million. Overall, the study concluded that an initiative focusing on local, sustainable meat processing was not feasible at that time, but future research and educational efforts could change that.

 Tactic #12 – Value-added plant products. Farmers in many parts of California and elsewhere have ample experience adding value to their raw plant products. Our economic analysis of agriculture in other California counties has documented a wide range of value-added products. Popular examples include baked goods, jams, jellies, trail mix blends, fruit and nut gift baskets, walnut oil, olive oil, popsicles, dog treats, salsas, "craft" beers brewed with local hops, and many others. A few growers even sell stevia and cactus products.

Similar to meat processing, hardly any processing of local fruits, vegetables, and other plant products occurs in Inyo and Mono. We located only minor, small-scale operations. For example, a producer near Death Valley packages and sells dates through retail outlets. The area's honey producer does his own packaging and sells retail, but on a small scale. One grower produces hops, some of which supply the region's micro-breweries. Regarding beer, the annual June Lake Autumn Beer Festival hosts breweries and visitors from across California, reinforcing the economic role that local, craft brewing can play.

Despite the dearth of local food processing, significant potential certainly exists. In fact, nearly every crop listed in the Inyo and Mono annual *Crop and Livestock Report* has value-added potential. In other California counties, we have seen examples of local producers adding value to crops listed for

Inyo and Mono, in particular: almonds, apples, apricots, blackberries, cherries, figs, grapes, nectarines, peaches, pears, pecans, persimmons, plums, pomegranates, raspberries, strawberries, walnuts, garlic, herbs, leafy greens, pumpkins, sweet corn, tomatillos, and tomatoes.

We have even seen value-added to field crops. For example, many Central Valley growers compress hay into pellets for export to lucrative international markets, mostly Asia. Despite the potential profits, we do not recommend this for Inyo and Mono because of the already constrained hay supply. Shipping it overseas could create serious consequences for ranchers whose livestock depend on local hay.

Two crops likely present the biggest opportunity: wine grapes and cannabis. To our knowledge, the region has just one significant wine grape producer and several smaller, hobby-scale vineyards. The larger producer sells wine at a local bakery, whereas the hobbyists consume or share what they produce. Thanks to new varietals and other factors, wine grapes and wineries have expanded rapidly across California and the U.S., often into areas where no one thought wine production possible. Thus, the fact that local winemaking now occurs in Inyo and Mono bodes well, despite its current small size.

Economic studies we have done for other counties indicate that when it comes to locally sourced, value-added food processing, wineries offer an especially common and fruitful path. They create significant, direct economic output with high employment and multiplier effects. San Diego County wineries, for example, converted just \$4.3 million worth of wine grapes into \$70.4 million in direct winery output plus another \$49.5 million in multiplier effects. In Contra Costa County, wineries converted \$10.3 in grape production into \$34.5 million in direct winery output, or \$50.2 million including multiplier effects. Dramatic results like these occur in county after county. Part of wineries' economic value includes hosting wine tastings, weddings, and other events. Even a small wine industry in the Eastern Sierras could create large, lasting impacts.

Cannabis cultivation is poised to explode in California as new policies take effect. Now that Californian voted to legalize recreational marijuana use, growers across the state are considering entering this market due high potential profitability. No one can predict how this will play out. We are concerned that euphoria and optimism are running so high, and production ramping so fast, that it could overshoot demand, adversely affecting smaller producers. We also have concern about a "substitution effect" whereby a large-scale shift into cannabis cultivation results in farmers growing less food due to the lower profit margins of typical food crops. This, in turn, could tighten supply and raise food prices. On the upside, a local expert in Inyo County expressed hope that profitable cannabis cultivation might motivate Inyo and Mono's aging farmers to defer retirement a while longer. It could also provide enough revenue to younger, small-sized producers that they can more comfortably afford to grow lower margin, higher nutrition food crops. Despite these concerns, the sheer magnitude of the economic opportunity makes it hard to resist. The market for concentrates, edibles, drinkables, and other cannabis-infused products certainly creates an interesting opportunity for Inyo and Mono. Both counties voted strongly in favor of legalization, so overall receptivity is high. Only time will tell if cannabis creates net positive effects for Inyo and Mono. In the meantime, a detailed feasibility study, combined with relevant analysis of policy alternatives, could help steer the cannabis juggernaut in a positive direction.

Tactic #13 – Nonagricultural products. A growing number of ranchers have diversified into energy production, mining, photos, and other non-agricultural products that provide significant, supplemental revenue. We have seen oil and gas wells, wind turbines, and other infrastructure situated in ways that seem compatible with livestock ranching and crop farming. One of the ranches mentioned in *Tactic #1* generates supplemental revenue from a telecommunications tower located high atop the ranch. Farms and ranches with agritourism enterprises (see *Tactic #14* below) also sell photos and other merchandise. A few of Inyo and Mono's iconic ranches have appeared in film productions, and Mono County even has a film commission to facilitate such efforts.

STRATEGY #4. Diversification of services.

Tactic #14 – Agricultural tourism and recreation. Farmers and ranchers can diversify revenue streams through hosting visitors who come for a wide range of experiences such as hiking, birdwatching, and other recreational activities. Western ranches, for example, offer 'dude ranch' experiences where visitors pay to ride horses and experience the traditional ranching lifestyle. A prominent Mono County example is Humewill Ranch. Guests at this sixth-generation Bridgeport property can ride horses for pleasure or assist with cattle work such as moving cows and calves to fresh grass, sorting cattle from a herd, or loading calves into a trailer as a timed event. Other ranches offer guided fishing, birdwatching, and natural history tours.

Many farms host weddings, picnics, and various catered events, while also offering U-pick and other farm activities. We heard interest in moving beyond the traditional "pumpkin patch and apple cider" experience into "working farms" that act more like dude ranches. Overall, agritourism on ranches and farms represents a natural and promising growth area for Inyo and Mono Counties. It can help preserve local ranches and ranching culture, create economic synergies with the region's already strong tourism industry, and help diversify both the agriculture and tourism industries.

• **Tactic #15 – Hunting and fishing**. Whether informal or formal, commercial or subsistence, ranchers and farmers can generate supplemental revenue from aquatic and terrestrial wildlife. Hunting tends to be compatible with livestock ranching and provides an incentive to manage for wildlife habitat.

Many ranchers and farmers hunt wildlife for their own table but a growing number charge hunters fees based on time (i.e., daily, seasonal, annual access) or receive payments from an outfitter or broker for access. State laws and game agencies regulate hunting of wild game. Most laws treat exotic game species as if they are livestock (e.g., oryx, wildebeest, bongo, impala, eland, kudu), which gives owners greater control over the timing and extent of harvest.

In early 2017, we analyzed the economics of bird hunting (mostly pheasant and chukar) in part of the Sacramento - San Joaquin River Delta and determined that hunting had a 0.74 multiplier on economic output. In other words, every dollar that hunting brought into the local economy also added an extra 74 cents to the local economy through supplier purchases and consumer spending. Similar effects could occur in Inyo and Mono.

- Tactic #16 Ecosystem services. The non-market economic contributions that ranchers and farmers make through ecosystem services, as detailed in Section #8, sometimes result in revenue. Several examples exist of operators receiving payments for providing habitat for wildlife, pollinators and plants. Others receive payments for carbon storage and sequestration. Still others earn payments for ecological restoration work. Finally, some generate revenue from cultural preservation activities. The U.S. Department of Agriculture implements many of these incentive and financial assistance programs, especially through its Natural Resources Conservation Service. Instead of cash payments, some programs offer technical assistance and cost sharing for conservation projects.
- Tactic #17 Miscellaneous Other Services. The Sayre et al. 2012 article lists several other tactics, which we combine here into a miscellaneous section. Examples include "horse boarding," "Education and research," and "Control of fire risk and invasive weeds." "Services for other ranchers" includes consulting, monitoring, video production and training facilities for horses and cows. We encourage interested readers to consult the article for further details.

STRATEGY #5. Diversification of markets and marketing

Whereas the previous strategy focused on creating new value, this one focuses on capturing value. It does this through new, alternative markets and conservation-friendly production practices. When a customer spends a dollar on food, the overwhelming majority of that dollar goes to processing, distribution, and marketing. This strategy helps producers increase their share of that food dollar.

Tactic #18 – Third party certification and marketing. Many third-party certification and marketing systems now exist to help ranchers and farmers capture price premiums from niche markets. Prominent examples include American Grassfed (www.americangrassfed.org), and Certified Humane (www.certifiedhumane.org), as well as wildlife-friendly and predator-friendly certifications. The U.S. Department of Agriculture has certified over 2 million acres of rangeland and pasturelands as

certified organic, as well as over 15 million poultry and half a million head of cows, hogs, and sheep. Inyo and Mono seem to have negligible organic production, if any at all. Annual *Crop and Livestock Reports* do not specify certified organic crop types or acreages.

- Tactic #19 Cooperatives and producer marketing boards. Alternative marketing arrangements can benefit small-scale producers, for example through capturing more down-stream value, maintaining ownership of new technologies, and having more marketing power than they could generate individually. This can include accessing niche markets. The Oregon-based Country Natural Beef cooperative, for example, enables 120 ranches in 12 states to sell on national and international markets under a brand that adheres to a common set of sustainability and animal welfare standards. The ranches treat cattle humanely, steward the environment, avoid using hormones and antibiotics, and are all family-owned (see www.countrynaturalbeef.org). Ranchers tend to be independent-minded and self-reliant but several examples across the U.S. West confirm their willingness to collaborate for their greater economic good.
- Tactic #20 Direct to consumer food marketing. This tactic skips one or more middlemen in the supply chain so producers can capture more value. Recent years have seen proliferation of direct marketing approaches across California and nationwide. Common examples include farmers' markets, community supported agriculture (CSA), retail operations (including farm stands and roadside markets), mail order, U-pick or pick your-own, and direct sales to restaurants and various other institutions. Producers also make greater use of local produce aggregation and delivery services such as Door to Door Organics (www.doortodoororganics.com) and Blue Apron (www.blueapron.com). One of our former graduate students, Alan Lovewell even created a marine CSA. Customers receive a weekly cooler of fresh fish caught by in the Monterey Bay by local fishermen (www.realgoodfish.com).

In Inyo and Mono, the Eastern Sierra Food System Network (ESFSN) has explored ways to strengthen ties between local producers and consumers. A collaborative of public and private sector organizations, ESFSN strives to build community gardens, food co-ops, CSAs, and farmers markets, with an emphasis on increasing low-income residents' access to affordable, nutritious food.

Tactic #21 – Local and regional brands. With tailwinds from the local food movement, a growing
number of farming and ranching communities have developed their own brands. For both crops and
livestock, the brand usually specifies a geographical feature. For example, 'Lava Lake' lamb products
come from Lava Lake, 'Solano Grown' products come from Solano County, and so on. The
'Southwest Grass-fed Livestock Alliance' (SWGLA) offers an especially strong example. SWGLA is a
non-profit alliance of ranchers, farmers, consumers, land managers, conservationists, researchers,

and local food system providers working together to support local, grass-fed livestock products (see <u>www.grassfedlivestock.org</u>).

The 2009 Inyo and Mono "Natural Livestock Feasibility Study" described earlier also examined regional marketing opportunities. Local ranchers preferred 'Eastern Sierra Beef' as a potential brand name. That said, the Eastern Sierras seem to lack a large enough human population to drive sufficient demand for local meat. It might make sense to market local products as part of the greater 'Tahoe Basin' foodshed as well, with its larger population base.

This section has explored options for strengthening Inyo and Mono agriculture through economic diversification. It summarizes five main diversification strategies: diversification through new management practices, tenure arrangements, types of products, types of services, and markets & marketing. We ground the five strategies with 21 specific tactics developed and tested by farmers and ranchers in various locations. The discussion can serve as a jumping off point for local stakeholders interested in advancing this topic.

Rigorous feasibility testing and specific recommendations both lie beyond our purpose here. Nevertheless, we offer four final thoughts. First, evidence suggests that significant need and opportunity exist in Inyo and Mono to diversify into more value-added products. We encourage stakeholders to make it a priority. Second, although considerable value-added processing can occur with small-scale products, we think wine and cannabis hold particular promise for larger scale impact. Third, eight years and a major drought have passed since that last assessment of the local meat processing idea. Local meat remains a highly promising option and warrants another look. Finally, agritourism on working ranches and farms hold considerable promise, especially given its light touch on the land, cultural connection, and clear synergies with the larger tourism sector.

Conclusion

This report has focused on ten questions about Inyo and Mono agriculture. The final section summarizes key takeaways from the study and poses priority research gaps to fill in the future. Ten major results, one for each section, are:

 #1. Direct production value. For 2015, agriculture produced a combine total of \$49.7 million across both counties, including \$18.5 million from Inyo and \$31.2 million from Mono. "Livestock & Livestock Products" was the largest category, contributing 48.3% of the counties' combined total.

- **#2**. **Steady, overall growth.** Despite recent dips and variations across counties and categories, total farm production values have shown steady, long-term growth. From 2000 to 2015, the combined total output for both counties rose \$14.1 million (39.6%). This growth outpaced inflation by 3.9%.
- **#3. Multiplier effects.** Agricultural production creates ripples in the local economy. For example, every dollar's worth of economic output from Inyo Livestock and Livestock Products creates an extra 64 cents in purchases from suppliers and spending by agricultural employees, and 88 cents in Mono.
- **#4. Total economic output**. Agriculture's multiplier effects totaled \$9.0 million in Inyo and \$19.9 million in Mono, for a combined total of \$28.9 million. When added to the \$49.7 million in direct output mentioned above, agriculture's combined total economic output rises to \$78.6 million.
- #5. Ownership of agricultural lands. Across both counties combined, federal agencies own most of agricultural land (88.7%) and rangeland pasture is the most common use (97.2% of total area). Among field crops, private lands contributed the highest dollar output (63.8% of the total), mostly through alfalfa hay production (66.6% of all output).
- **#6. Employment and taxes.** Across both counties combined, agriculture provided 239 direct jobs plus an additional 210 from multiplier effects, for a total of 449 jobs. Total combined tax payments across local, state, and federal levels were \$6,287,128.
- **#7. Cross-county interdependencies**. Seasonal movement of cattle herds across county lines creates complex economic interdependencies. For example, an acre of Mono County irrigated pasture accounts for a combined \$1,657 in production across both counties. Alfalfa contributes for \$10,525.
- #8. Significant non-market values. Agricultural lands provide society with wildlife habitat, scenic beauty, carbon storage, and many other "ecosystem services." Established methodologies exist for quantifying the economic value of these contributions. We recommend the Benefit Transfer Methodology for its combination of rigor and cost effectiveness.
- **#9. Economic diversity within agriculture.** Combined across the two counties, the agricultural industry has an economic diversity index score of 1.75. While low, the number has remained stable over the past decade, unlike many California counties that have seen declines.
- **#10. Expansion through diversification.** Agriculture faces expansion opportunities through five diversification strategies. In terms of specific diversification focal areas, local meat processing remains an especially promising area, along with agritourism, cannabis and wineries.

Priority Information Gaps to Fill. Although this report has presented many facts and figures, it has barely begun to fill key information gaps about agriculture's economic role. The process of developing this report has raised several additional questions that lie beyond the scope of this report but may warrant future analysis. Priority research questions include:

- A fuller understanding of inter-county linkages. Due to its limited scope, this study has relied on limited data regarding livestock operations that straddle both counties. What is the full extent of this phenomenon? The unique economic opportunities and risks?
- Analysis of inter-industry relationships. The recent drought cost the agriculture industry an estimated \$35 million in lost production. What ripple effect did this create across other Inyo and Mono industries. For example, how many jobs and millions of dollars did real estate, restaurants, trucking, and other local industries experience as a result of agricultural companies and their employees having less money to spend?
- **Changes in land access.** This report has highlighted the serious economic implications of reducing the amount of land available for lease by ranchers. Exactly how much reduction has occurred in the recent past? What might the future hold, for example designations of new critical habitat for endangered species?
- **Regional integration.** What needs to happen in order for Inyo and Mono Counties to function as a more integrated, economically aligned, regional food system that supports sustainability and synergies?
- **Cannabis.** Experts predict an explosion of cannabis cultivation in response to California's legalization of recreational marijuana use. What economic opportunities and risks does this create for local agriculture? Will it decrease the amount of food that local growers produce?
- **Ecosystem services.** What is the annual dollar value of wildlife habitat, open space, scenic beauty, carbon sequestration, cultural preservation, pollination, and other "ecosystem services" that the county's agricultural lands provide to society?
- **Diversity.** How diverse are Inyo and Mono Counties' agriculture not just in terms of economic production categories, but also across farm sizes, geographical markets, organic/conventional, and operator demographics?

- **Diversification.** What new policies, programs, and other initiatives hold the most promise for strengthening agriculture through diversification into new products, services, and other means? What's required to advance this topic in a significant way?
- **Economic shocks.** The recent drought highlighted agriculture's vulnerability to large, outside forces. What other "shocks" could dramatically affect agriculture's economic results? How big a hit to economic output would they cause? What's the best way to anticipate and mitigate against them?

In conclusion, for more than a century agriculture has provided a vital link between Inyo and Mono Counties' cultural past and economic future. This report has provided an especially detailed snapshot of agriculture's current economic role. Although it is by no means a complete analysis, the study provides local stakeholders with important information for understanding local agriculture's current economic role and strengthening it for the future.

July 18, 2017 Regular Meeting Item #9b Public Health

2017-2022 Public Health Emergency Preparedness Contract Agreement



State of California—Health and Human Services Agency California Department of Public Health



EDMUND G. BROWN JR. Governor

Director and State Health Officer

July 5, 2017

Dr. Richard Johnson Health Officer Mono County PO Box 3329 Mammoth Lakes, CA 93546

Sandra Pearce Health Executive Mono County PO Box 3329 Mammoth Lakes, CA 93546

Dear Dr. Johnson & Ms. Pearce

The California Department of Public Health (CDPH) has approved your 2017-18 Local Grant Application, which includes funding for the following:

- Centers for Disease Control and Prevention (CDC) Public Health Emergency Preparedness Program (PHEP)
- State General Fund (GF) Pandemic Influenza Planning
- Hospital Preparedness Program (HPP) •

If you have any questions, please do not hesitate to call your Emergency Preparedness Office Contract Manager.

Thank you,

Tiamo & Maddox mes

Frances Viramontes-Maddox Assistant Deputy Director California Department of Public Health **Emergency Preparedness Office**

Enclosure

Mono County, Department of Public Health Page 2 July 5, 2017

CC:

Deb Diaz Public Health Emergency Preparedness Coordinator/ Hospital Preparedness Coordinator Mono County PO Box 3329 Mammoth Lakes, CA 93517

Dr. Richard Johnson Pandemic Influenza Coordinator Mono County PO Box 3329 Mammoth Lakes, CA 93517

Edmund Kwong Contract Manager CDPH-EPO MS 7002-PO Box 997377 Sacramento, CA 95899-7377

Attachment 02



CALIFORNIA DEPARTMENT OF PUBLIC HEALTH

Mono County

Local HPP Work Plan

FY 17-18

5/1/2017 v2 Hospital Preparedness Program (HPP)

EMERGENCY PREPAREDNESS OFFICE

BE PREPARED CALIFORNIA

Mono 17-18 HPP Work Plan Approved 6.21.17.xlsx

Capability 1: Foundation for Health Care and Medical Readiness

Goal:

Local HPP Entities/Health Care Coalitions will coordinate planning, training, and exercises to prepare for disasters to improve healthcare system preparedness, including newly required Centers for Medicare & Medicaid Services (CMS) participants.

HPP Entity Support Statement:

Our Healthcare Coalition consists of 3 overlaping entities: Emergency Medical Care Committee (EMCC), Unified Command (UC), and Mammoth Hospital Disaster Committee. The EMCC has By-laws and Officers, and has representatives from public health (which includes environmental health), EMS (including the LEMSA - Inland Counties Emergency Medical Agency - ICEMA, the Mono County Paramedic Program, and a representative of the volunteer fire chiefs association. We meet bi-monthly, with agenda and minutes. The Mammoth Hospital Disaster Committee meets monthly, and consists of key members of the hospital response and planning group, and a representative from public health. The Unified Command meets quarterly, with agenda and attendees documented. Representatives are present from a variey of local, regional, state, and federal partners, including schools, utilities, private business, transportation, ARC, behavioral health, law, fire, EMS, military, public health, environmental health, social services, administration (town and county), tribal, and agencies serving at-risk populations.

Known Gaps:

Behavioral Health has had limited participation with us in planning and exercises. Redundancy in training for many ICS positions (DOC, EOC, MHOAC) is lacking, having been hampered by staff turnover and limited surge capacity. We recognize that due to our frontier remote location, mutual aid may be delayed, or in some cases (e.g., pandemic influenza), non-existent. Staff will be our biggest asset, but the lack thereof will be our biggest liability, as we have enough space and stuff for most anticipated events based on our risk assessments, but not a large staff to surge to meet the needs of a large event.

Objective 1 (Domain 1, Activity 1)	Est.		Mid	Year Report	Year	· End Report
Define/identify Health Care Coalition boundaries to ensure HCC core member requirements are met.	Finish	Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
(HPP Guide: Obj. 1 Activity 1)	-	^	(Dbjective		
If Applicable: If HCC meets core member requirements: Provide activities to reflect what steps will be taken to include any new HCC members into the Coalition. If HCC does not meet core member requirements: Provide activities to reflect what steps will be taken to incorporate current HCC members into a new Coalition to ensure core member	Q4	Deb Diaz				
requirements are met.						
Activities			l	Activities		
1 We (the HPP entity - Mono County Public Health) will sustain the Mono County Operational Area Healthcare Coalition at the Stage 3 level. (Notes 1 and 2)	Q1	Richard Johnson				
2 Since we do not meet the core member requirements of having 2 acute care hospitals, we will identify potential partners which will allow the formation of a new coaliton meeting the membership requirements. (Note 1)	Q1	Richard Johnson				
3 We will explore and pursue relationships with potential partners in forming a new HCC in order to ensure core membership requirements are met. (Note 1)	Q1	Richard Johnson				
4 We will continue to attend, participate, and provide training content - curriculum and exercises - to members of the Mono County Emergency Medical Care Committee which meets bi-monthly. (Notes 1 and 2)	Q4	Richard Johnson				
5 We will continue to attend, participate, and provide training content - curriculum and exercises - to members of the Mammoth Hospital Disaster Committee which meets monthly. (Notes 1 and 2)	Q4	Richard Johnson				
6 We will continue to attend, participate, and provide training content - curriculum and exercises - to members of the Unified Command which meets quarterly. (Notes 1 and 2)	Q4	Richard Johnson				
7 Staff named in the grant will attend regional and state meetings to ensure that the local healthcare coalition is linked to regional and state entities for the purpose of situational reporting and resource requesting. These meetings are to include quarterly Region VI RDMHS meetings in Riverside, and quarterly CA-NV Border Counties Coalition meetings in Truckee. (Notes 1 and 2)	Q4	Richard Johnson				
8 Staff named in the grant will attend trainings in order to upgrade their skills, and to bring resources and tools back to the local jurisdiction for application in local planning, response, and recovery involving all members of the Healthcare Coalition. This will include the annual EPO Preparedness Workshop in Sacramento in June, 2018, and the annual NACCHO Preparedness Summit in Spring, 2018. (Notes 1 and 2)	Q4	Deb Diaz				

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Required	Required Deliverable(s) Deliverable 1) Documentation 1									
Deliverable	1) Documentation									
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Objective 2	2 (Domain 1, Activity 1)			Mid-	Year Report	Year	End Report
(HPP Guid	implement HCC Governance Structure. e: Obj. 1 Activity 3)	-	Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
See 5 Year	HCC Activities Checklist or FOA for elements required in the Governance Structure.	Q2	Richard Johnson				
Activities				A	Activities		
1	The new HCC Governance documents will include identification of members. (Note 1)	Q2	Richard Johnson				
2	The new HCC Governance documents will include an organizational structure to support HCC activities. (Note 1) 6/9/17: Mono County Public Health will meet with potential members of a new HCC in order to create and review and approve a governance structure for a new coalition.	Q2	Richard Johnson				
3	The new HCC Governance documents will include member guidelines for participation and engagement. (Note 1)	Q2	Richard Johnson				
4	The new HCC Governance documents will include policies and procedures. (Note 1)	Q2	Richard Johnson				
5	The new HCC Governance documents will include integration with existing state, local, and member-specific incident mamagement structures and specific roles. (Note 1)	Q2	Richard Johnson				
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Required					Deliver	able(s)	
Deliverable	1) Health Care Coalition Governance documents						
Notes:							

Objective 3	(Domain 1, Activity 4)			Mid-	Year Report	Year	End Report
Engage me (HPP Guide	mbers in health care system preparedness activities. e: Obj. 1)		Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
				0	bjective		
		Q4	Richard Johnson				
Activities		-		A	ctivities	-	
1	We (Public Health) will attend, participate, and provide training content - curriculum and exercises - to members of the Emergency Medical Care Committee which meets bi- monthly. (Notes 1 and 2)	Q4	Richard Johnson				
2	We will attend, participate, and provide training content - curriculum and exercises - to members of the Mammoth Hospital Disaster Committee which meets monthly. (Notes 1 and 2)	Q4	Richard Johnson				
3	We will attend, participate, and provide training content - curriculum and exercises - to members of the Unified Command which meets quarterly. (Notes 1 and 2)	Q4	Richard Johnson				
4	We will attend, participate, and provide training content - curriculum and exercises - to members of a new HCC, in whatever meeting format and location is selected by a new HCC. (Notes 1 and 2)	Q4	Richard Johnson				
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Required Deliverable	1) Decumentation				Deliver	able(s)	
Deliverable	1) Documentation						
Notes:							

Objective 4	4 (Domain 1, Activity 2)			Mid-	Year Report	Year	End Report
provider or	omplete a Hazard Vulnerability Analysis (HVA) with the engagement of each healthcare provider type. e: Obj. 2 Activity 1)		Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
		Q3	Richard Johnson				
Activities				ļ	Activities		
1	Public Health will review and update the OA Health Hazard Risk Assessment. (Note 7)	Q3	Deb Diaz				
2	Public Health will educate the Mammoth Hospital Disaster Committee on the top three hazards, identify whether or not the top three hazards are included in their facility plans, and identify their roles and responsibilities in response, including prioritized mitigation activities based on resource availability. (Notes 2 and 7)	Q3	Deb Diaz				
	Public Health will educate the Emergency Medical Care Committee on the top three hazards, identify whether or not the top three hazards are included in their facility plans, and identify their roles and responsibilities in response, including prioritized mitigation activities based on resource availability. (Notes 2 and 7)	Q3	Richard Johnson				
4	Public Health will educate the Unified Command on the top three hazards, identify whether or not the top three hazards are included in their facility plans, and identify their roles and responsibilities in response, including prioritized mitigation activities based on resource availability. (Notes 2 and 7)		Richard Johnson				
Ę	Public Health will perform the same functions within the structure of a new HCC once it is formed. (Notes 2 and 7)	Q3	Richard Johnson				
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Required		•			Deliver	able(s)	
Deliverable	1) Documentation of completed HVA						
Notes:							

Objective 5	(Domain 1, Activity 2)			Mid-	Year Report	Year	End Report
Provide upo	Ith care resources and include those resources in the Emergency Resource Directory. lates to the MHOAC program. b: Obj. 2 Activity 2)		Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
		-		0	Dbjective		
		Q4	Deb Diaz				
Activities				ŀ	Activities		
	Public Health will maintain the ERD on an annual basis, and make the current ERD available to the MHOAC Program. (Note 5)	Q4	Deb Diaz				
	Public Health and the MHOAC Program will coordinate with the RDMHS Program in Region VI to provide requested jurisdictional information on an annual basis, with documentation of such exchange of information provided in the local ERD. (Note 5)	Q4	Deb Diaz				
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Required					Deliver	able(s)	
	1) Update ERD 2) Update Regional ERD						
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Objective 6 (Domain 1, Activity 3)			Mid	Year Report	Yea	r End Report
Identify organizations that serve individuals with access and functional needs (ex: pregnant women, disabled, veterans, etc.), including identifying their resource capabilities and contact information. (HPP Guide: Obj. 2 Activity 4)		Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
	Q4	Deb Diaz				
Activities			_	Activities		
1 Public Health will continue to develop its Access and Functional Needs (AFN) Registry Plan with local OES. (Notes 8 and 9)	Q1	Deb Diaz				
2 Public Health will continue to conduct outreach to the public regarding the registry. (Notes 2 and 9)	Q4	Deb Diaz				
3 Public Health will keep the registry updated and current. (Notes 2 and 9)	Q4	Deb Diaz				
4 Public Health and OES will continue to develop plans to roll out the registry data to the end user (first responders) according to approved policy and procedure. (Notes 8 and 9)	Q3	Deb Diaz				
5 Public Health will educate the Healthcare Coalition on the registry plan, including how to activate the plan in order to reach the targeted population. (Notes 8 and 9)	Q3	Deb Diaz				
6 Public Health will work with a new HCC in adjusting above plans to fit the new boundaries, membership, and organizational structure of a new HCC. (Notes 1 and 9	Q4	Deb Diaz				
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Required				Deliver	able(s)	1
Deliverable 1) Documentation						
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Objective 7	(Domain 1, Activity 1)			Mid-	Year Report	Year	End Report
Update and (HPP Guide	submit HCC Preparedness Plan to EPO by the end of FY 17/18. e: Obj. 3)		Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
include ele	is most likely the county MHOAC Guide. One option is to create an appendix to ments required for the HCC Preparedness Plan on page 17 of the 2017-2022 e Preparedness and Response Capabilities Guide.	Q2	Richard Johnson	0	bjective		
Activities				A	Activities		
1	The Health Department will review the Mono County MHOAC Program Manual, and revise to include any missing elements required in an HCC Preparedness Plan. (Note 8)	Q1	Richard Johnson				
2	The Health Department will work with the new HCC in developing documents that meet the requirements of an HCC Preparedness Plan for the new HCC once it is formed. (Note 9)	Q2	Richard Johnson				
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Required					Deliver	able(s)	
Deliverable	1) Documentation						
Notes:							

Objective 8	B (Domain 1, Activity 1)			Mid-Year Report		Year End Report	
	tion with the Local Health Department (LHD), review the State MHOAC Guide when able by CDPH. Implement any changes necessary into the Local MHOAC Guide.		Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes) Dejective	Status	Primary Barrier (Describe in Notes)
		Q4	Richard Johnson				
Activities					Activities		
1	The MHOAC is a co-author on the MHOAC Guide, and will continue to work with EMSAAC on revisions as necessary. (Note 9)	Q4	Richard Johnson				
	The MHOAC has produced a Mono County MHOAC Program Manual in draft form, which will be revised as recommendations are received from partners in the HCC. (Note 9)	Q1	Richard Johnson				
3	The MHOAC will work with a new HCC to produce a MHOAC Program Manual(s) that will serve the entire boundary of a new HCC. (Note 9)	Q2	Richard Johnson				
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Required		I	1		Deliver	able(s)	
Deliverable	1) Documentation						
Notes:							

		Mid-	-Year Report	Year End Report	
Date	(first and last name)	Status	Primary Barrier (Describe in Notes) Objective	Status	Primary Barrier (Describe in Notes)
			Activities		
Q1	Deb Diaz				
Q2	Deb Diaz				
Q2					
Q3	Ruchard Johnson				
Q4	Ruchard Johnson				
Q4	Ruchard Johnson				
Q4	Ruchard Johnson				
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	Finish Date Q4 Q1 Q2 Q2 Q3 Q4	Finish DateStaff Lead (first and last name)Q4Deb DiazQ4Deb DiazQ1Deb DiazQ2Deb DiazQ3Ruchard JohnsonQ4Ruchard JohnsonQ4Ruchard Johnson	Est. Finish DateStaff Lead (first and last name)StatusQ4Deb Diaz(Control of the second s	Finish DateStaff Lead (first and last name)Primary Barrier (Describe in Notes)Q4Deb DiazUQ4Deb DiazIQ1Deb DiazIQ2Deb DiazIQ2Deb DiazIQ3Ruchard JohnsonIQ4Ruchard JohnsonIQ5IIQ6IIQ7IIQ8IIQ9IIQ9IIQ9IIQ9IIQ9IIQ9IIQ9IIQ9IIQ9IIQ9IIQ9IIQ9IIQ9IIQ9IIQ9IIQ9IIQ9IIQ9II<	Est. Finish DateStaff Lead (first and last name)Primary Barrier (Describe in Notes)StatusQ4Deb DiazObjectiveQ4Deb DiazActivitiesQ1Deb DiazImage: Comparison of the compar

Objective 1	0 (Domain 1, Activity 4)			Mid-	Year Report	Year	End Report
	treach activities to engage Tribal entities in healthcare planning efforts to prepare, id recover from incidents that have public health and medical impact as applicable to the		Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes) Objective	Status	Primary Barrier (Describe in Notes)
		Q4	Deb Diaz				
Activities			•		Activities		
1	Public Health will continue to provide information, training, and exercises to Toiyabe Indian Health Project (TIHP) personnel at the Unified Command meetings. (Note 2)	Q4	Deb Diaz				
	Key staff members designated by the TIHP to participate in healthcare planning to prepare, respond, and recover from incidents that have public health and medical impact receive Mono-Grams, which contain emergency preparedness, response, and recovery content. (Note 2)	Q4	Richard Johnson				
	Key staff members designated by the TIHP to participate in healthcare planning to prepare, respond, and recover from incidents that have public health and medical impact are inluded in the Field to OA Sit Rep and Resouce Requesting form to ensure bidirectional sharing of information between TIHP and the MHOAC Program. (Note 2)	Q1	Deb Diaz				
4	TIHP staff will be invited to participate in the planning meeting for the SWMHE in 2017. (Note 3)	Q1	Deb Diaz				
5	TIHP staff will be invited to participate in the SWMHE in Fall, 2017. (Note 3)	Q2	Deb Diaz				
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10 Required					Deliver	able(a)	
	1) Documentation				Deliver	able(S)	
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Objective 11 Optional			Mid-	Year Report	Year End Report	
		Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
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Activities			ŀ	Activities		
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Deliverable 1)						
Notes:						

Objective	12 Optional			Mid-Year Report		Year End Report	
		Est. Finish Date	Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
		r		L	bjective		
Activities				^	Activities		
Activities		1		<i></i>			
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10 De suvise d					Dullar		
Required Deliverable					Deliver	able(s)	
Deliverable	2)						
	3)						
Notes:					•		

Mono County

Capability 2: Health Care and Medical Response Coordination Goal:

Health Care Coalition (HCC) and its members will plan and collaborate to share and analyze information, manage and share resources, and coordinate strategies to deliver medical care to all populations during emergencies and planned events.

Known Gaps:

Communication drills have not occurred on a regularly scheduled basis. Our acute care hospital does not have an efficient way to notify staff of a medical surge or call-in. Our jurisdiction wide JIS has not been operational due to staff changes.

Objective 1	(Domain 2, Activity 4)	Est.		Mid-	Year Report	Year	End Report			
In coordination	ion with the LHD, begin the development of the HCC Response Plan.	Finish	Staff Lead		Primary Barrier		Primary Barrier			
	e: Obj. 1 Activities 1 & 2)	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)			
Note: See	page 27 of the 2017-2022 Health Care Preparedness and Response Capabilities	Objective								
	Il required elements of the HCC Response Plan due by FY 18/19. During the last									
Five Year Grant Cycle, several of these elements were required objectives and may already be in existing documents/plans.		Q4	Richard Johnbson							
Activities				Activities						
1	Once a new HCC has been formed, we will examine documents for the existence of required elements in a new HCC Response Plan, and produce a list of missing items. (Notes 2 and 9)	Q2	Richard Johnbson							
2	From this list, the new HCC will begin work on producing a new HCC Response Plan with all the required elements. (Notes 2 and 9)	Q4	Richard Johnbson							
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8		1 1								
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Required					Deliver	able(s)				
Deliverable	1) Draft HCC Repsonse Plan									
Notes:					·		1			

Objective 2 (Domain 3, Activity 2)			Mid-Year Report		Year End Report	
HCC train and test redundant communication systems and existing information sharing procedures. (HPP Guide: Obj. 2 Activity 1 & 3)	Est. Finish Date	Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
			(Objective		
	Q4	Deb Diaz				
Activities			1	Activities		
1 Public Health will review and revise existing documents (MHOAC Program Manual, Information Sharing, Field-to-OA Sit Rep), for current content and procedures with a new HCC. (Notes 2 and 8)	Q2	Deb Diaz				
2 Public Health will conduct a jurisdiction wide communications drill with Healthcare Coalition members during the 1st quarter. (Note 3)	Q1	Deb Diaz				
3 Public Health will conduct a jurisdiction wide communications drill with Healthcare Coalition members during the 2nd quarter. (Note 3)	Q2	Deb Diaz				
4 Public Health will conduct a jurisdiction wide communications drill with Healthcare Coalition members during the 3rd quarter. (Note 3)	Q3	Deb Diaz				
5 ublic Health will conduct a jurisdiction wide communications drill with Healthcare Coalition members during the 4th quarter. (Note 3)	Q4	Deb Diaz				
6 Public Health will include a communication objective in the 2017 Statewide Medical and Health Exercise. (Note 3	Q2	Deb Diaz				
8						
9 10						
Required				Deliver	able(s)	
Deliverable 1) Documentation						
Notes:			-			

Objective 3 (Domain 1, Activity 2)			Mid-	Year Report	Yea	r End Report		
Update Emergency Resource Directory to include resources and vendor list. (HPP Guide: Obj. 3 Activities 1 & 2)	Est. Finish Date	Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)		
	Objective							
	Q4	Deb Diaz						
Activities			ŀ	Activities				
1 Public Health will maintain a current ERD for medical and health resources. (Note 2)	Q4	Deb Diaz						
2 Public Health will ensure that a vendor list is included in the ERD. (Note 2)	Q1	Deb Diaz						
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Required				Deliver	able(s)	• •		
Deliverable 1) Documentation								
Notes:								

Objective 4	(Domain 3, Activity 3)			Mid	-Year Report	Year	r End Report
(JIC) to prov	nunications plan, identify the method for HCC to be linked to the Joint Information Center vide message coordination (MHOAC, HCC Representative, PH, etc.) e: Obj. 3 Activity 3)	Est. Finish Date	Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes) Dejective	Status	Primary Barrier (Describe in Notes)
		Q1	Richard Johnson				
Activities				-	Activities		
	The MHOAC will ensure that the method for HCC partners to be linked to the JIC is included in the MHOAC Program Manual. (Note 9)	Q1	Richard Johnson				
	6/9/17: Due to staff turnover in the local OES, the MHOAC will first clarify who is functioning as the Operational Area PIO and facilitating the opening of a JIC and functioning of a county-wide JIS. (Note 2)	Q1	Richard Johnson				
	6/9/17: The MHOAC will clarify redundant methods of communication for members of the HCC to be linked to the JIS and a JIC, and will outline these methods in the MHOAC Program Manual, and provide appropriate education to members of the HCC. (Note 2)	Q1	Richard Johnson				
Required				-	Deliver	able(s)	
Deliverable	1) Documentation						
Notes:							

	(Domain 3, Activity 3)			Mid	-Year Report	Year	End Report
address pat	C members with templates or assistance to develop facility communications plan to ients, staff, visitors and public. C Obj. 3 Activity 4)	Est. Finish Date	Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
				(Objective		
		Q1	Deb Diaz				
Activities					Activities		
	Public Health will research the availability of templates and tools for facility communications plans to address patients, staff, visitors, and public. (Note 2)	Q1	Deb Diaz				
	Public Health will provide available resources to HCC members. (Note 2)	Q1	Deb Diaz				
Required					Deliver	able(s)	
Deliverable	1) Documentation						
Notes:							

Objective (Optional			Mid-	Year Report	Year End Report	
		Est. Finish Date	Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
				С	bjective		
Activities				A	Activities		
Required				Γ	Deliver	able(s)	
Deliverable	1)						
	2) 3)						
Notes:					I		

FY 17-18 HPP Work Plan

Objective 7	Optional			Mid-	Year Report	Year	End Report
		Est. Finish Date	Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
				C	Dbjective	-	
Activities				ŀ	Activities		
Required					Deliver	rable(s)	
Deliverable							
	2) 3)						
Notes:					l.		

Capability 3: Continuity of Health Care Service Delivery

Goal:

The Health Care Coalition (HCC) and its members will plan and collaborate to build and improve continuity of health care service delivery during emergencies or planned events.

Known Gaps:

Due to changes in leadership, training for EMS, and incorporation of behavioral health aspects cof first responder health and safety have not been addressed. Although partners are familiar with field-to-OA resource requesting procedures, they have not been drilled adequately, and the aspects of closed PODs have not been addressed.

Objective 1	(Domain 2, Activity 4)			Mid-	Year Report	Year	End Report
The HCC ne (COOP):	eds to identify the following components for the HCC Continuity of Operations Plan		Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
-essential fur	nctions	_		0	bjective		
-orders of su	ccession/delegation of authority						
-administrativ	ve and finance functions						
(HPP Guide	: Obj. 2, Activity 2)	Q2	Richard Johnson				
See page 31	l of FOA for additional requirements of the COOP.						
Activities				A	Activities		
1	The new HCC will identify essential functions for each member in a document. (Note 8)	Q2	Richard Johnson				
	The new HCC will identify orders of succession/delegation of authority for leadership continuity in a document (Note 8)	Q2	Richard Johnson				
	The new HCC will identify administrative and finance functions and responsibilities of members in the HCC in a document. (Note 8)	Q1	Richard Johnson				
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Required					Deliver	able(s)	
Deliverable	1) Documentation						
Notes:							

Objective 2	(Domain 3, Activity 1)			Mid-	Year Report	Year	End Report
facilities' CO	information sharing platforms/processes with HCC members that can be used in their DOP. : Obj. 2 Activity 1)		Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
				C	bjective		
		Q2	Richard Johnson				
Activities				A	Activities		
	The new HCC will define communication methods, frequency of information sharing, and redundant/interoperable communication systems and platforms to share information during an emergency response. (Note 2)		Richard Johnson				
	The new HCC will identify triggers for activation and notification. (Note 8)	Q2	Richard Johnson				
3	The new HCC will define essential elements of information that HCC members should report to the MHOAC. (Note 8)	Q2	Richard Johnson				
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Required					Deliver	able(s)	
Deliverable	1) Documentation						
Notes:							

HPP Capability 3 Continuity of Health Care Service Delivery

Objective 3	Objective 3 (Domain 4, Activity 1)			Mid-	Year Report	Year	Year End Report	
Receive training from LHDs on their MCM distribution and dispensing plans focusing on how HCC members can request pharmaceuticals and medical supplies by June 30, 2018. (HPP Guide: Obj. 3)			Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)	
See pages	38 & 39 of FOA.	Q3	Deb Diaz					
Activities				A	ctivities			
	Public Health will provide training on the MCM Plan, including situation reporting and resource requesting of pharmaceuticals and/or medical supplies, including closed PODs, to the Mammoth Hospital Disaster Committee. (Note 2)	Q3	Deb Diaz					
	Public Health will provide training on the MCM Plan, including situation reporting and resource requesting of pharmaceuticals and/or medical supplies, including closed PODs, to the Emergency Medical Care Committee. (Note 2)	Q3	Deb Diaz					
	Public Health will provide training on the MCM Plan, including situation reporting and resource requesting of pharmaceuticals and/or medical supplies, including closed PODs, to the Unified Command. (Note 2)	Q3	Deb Diaz					
	Public Health will provide training on the MCM Plan, including situation reporting and resource requesting of pharmaceuticals and/or medical supplies, including closed PODs, to any other members of a new HCC. (Note 2)	Q3	Deb Diaz					
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7								
9 10								
Required					Deliver	able(s)		
Deliverable	1) Documentation							
Notes:								

Objective 4	(Domain 4, Activity 2)			Mid-	Year Report	Year End Report	
Identify pote (HPP Guide	ential behavioral health impact(s) to health care responders based off top three hazards. e: Obj. 5)		Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
				C	bjective		
		Q3	Richard Johnson				
Activities				A	ctivities		
	Public Health will meet with the Mammoth Hospital Disaster Committee to create a list of potential behavioral health impacts on health care responders involving the top 3 hazards. (Note 2)	Q3	Richard Johnson				
	Public Health will meet with the Emergency Medical Care Committee to create a list of potential behavioral health impacts on health care responders involving the top 3 hazards. (Note 2)	Q3	Richard Johnson				
	Public Health will meet with Mono County Behavioral Health to create a list of potential behavioral health impacts on health care responders involving the top 3 hazards. (Note 2)	Q3	Richard Johnson				
4	Public Health will meet with members of a new HCC to consolidate and reach concensus on a list of potential behavioral health impacts on health care responders involving the top 3 hazards. (Note 2)	Q3	Richard Johnson				
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Required					Deliver	able(s)	
Deliverable	1) List of impacts						
Notes:					-		

Objective 5 (Domain 4, Activity 2)					Mid-Year Report		Year End Report	
Identify training requirements to help protect Responders' Safety and Health. (HPP Guide: Obj. 5)			Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)	
Examples of trainings: FRA/FRO/DECON training, Fit testing, ATD training, psychological first aid,		1		С	bjective	[
etc.)		Q4	Deb Diaz					
Activities				A	Activities			
	Public Health will maintain a current Exposure Control Plan for health care workers and first responders which deals with bloodborne and respiratory pathogens. (Note 8)	Q1	Richard Johnson					
	Public Health will provide a Respiratory Protection Program including fit testing, for public health and other agencies requesting support in protecting their staff. (Note 8)	Q3	Deb Diaz					
	Public Health will communicate with CDC, CDPH, EMSA, CalOSHA, etc., to ensure that recommendation for PPE are available to all first responders in any incidents that occur (e.g., Ebola). (Note 2)	Q4	Richard Johnson					
	Public Health will maintain an inventory of all PPE available within the boundary of the HCC. (Note 2)	Q1	Deb Diaz					
	The MHOAC will continue to work with partners in Region VI and the RDMHS Program to develop a Region VI Medical and Health Mutual Aid Program which will include PPE. (Note 8)	Q3	Richard Johnson					
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o 9								
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Required					Deliver	able(s)		
	1) Documentation							
Notes:								

			Mid	Mid-Year Report		Year End Report		
		Staff Lead		Primary Barrier		Primary Barrier		
	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes,		
	1		(Dbjective	(1		
	Q4	Richard Johnson						
Activities	Activities							
1 Public Health will plan, conduct, and evaluate the Coalition Surge Test Exercise with partners in a new HCC. (Note 3)	Q3	Richard Johnson						
2 Public Health will lead a new HCC in the development of a HCC Preparedness Plan (Performance Measure 13). (Notes 2 and 8)	Q3	Richard Johnson						
3 Public Health will lead a new HCC in the development of a HCC Response Plan (Performance Measure 14). (Notes 2 and 8)	Q4	Richard Johnson						
4 A new HCC will obtain de-identified data from emPOWER once per quarter (Performance Measure 15). (Note 9)	Q4	Ded Diaz						
5 The new HCC will document which acute care hospitals within the boundaries of the HCC have an ED recognized by statewide, or regional standardized system that is able to stabilize and/or manage pediatric medical emergencies (Performance Measure 17). Note 2)	Q2	Richard Johnson						
6 The new HCC will document that it is incorporated into the ESF-8 response plans within its jurisdictions (Performance Measure 19). (Note 2)	Q2	Richard Johnson						
7 The new HCC will document its involvement in the jurisdictional risk assessment (Performance Measure 20). (Note 2)	Q2	Richard Johnson						
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Required				Deliver	able(s)			
Deliverable 1) Documentation 2) Report of HPP Performance Measures								
Notes:								

HPP Capability 3 Continuity of Health Care Service Delivery

FY 17-18 HPP Work Plan

Objective 7				Mid-Year Report		Year End Report	
Optional		Est. Finish Date	Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
				C	Dbjective		[
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Deliverable	4)				Deliver	rable(s)	
Denverable	2)						
	2) 3)						
Notes:							

HPP Capability 3 Continuity of Health Care Service Delivery

FY 17-18 HPP Work Plan

Objective 8				Mid-Year Report		Year End Report		
Optional		Est. Finish Date	Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes) bjective	Status	Primary Barrier (Describe in Notes)	
Activities	ctivities							
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Required	Deliverable(s)							
Deliverable	1) 2) 3)							
Notes:								

Capability 4: Medical Surge

Goal:

Health Care Coalitions (HCC), in collaboration with the Emergency Support Function-8 (ESF-8/ EF-8) lead agency, coordinates information and available resources for its members to maintain conventional surge response. When an emergency overwhelms the HCC's collective resources, the HCC supports the health care delivery system's transition to contingency and crisis surge response and promotes a timely return to conventional standards of care as soon as possible utilizing the Emergency Operations Manual.

Known Gaps:

There is no coordfinated Family Reunification Plan. Efforts to create a patient tracking plan have been awaiting the release of the CA Patient Movement Plan, so do not exist yet.

Objective 1	(Domain 5, Activity 2)				Mid-Year Report		Year End Report	
Plan (EOP)	Medical Surge Planning into the Health Care Organization's Emergency Operations e: Obj. 1 Activity 1)		Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)	
		r			Dbjective	-	[
		Q4	Richard Johnson					
Activities					Activities	•	•	
	The HCC will confirm that each acute care hospital has all of the critical elements (See page 26 of the HPP Guide) included in its EOP. (Note 2)	Q2	Richard Johnson					
	The HCC will document all Performance measures completed by each acute care hospital. (Note 2)	Q2	Richard Johnson					
3	Public Health will lead the Coalition Surge Test Exercise, and document achievement of each of the applicable Performance Measures. (Note 3)	Q3	Richard Johnson					
4	Public Health will provide trainings at monthly meetings of the Mammoth Hospital Disaster Committee to include surge topics. (Note 2)	Q4	Richard Johnson					
5	A member of the Mammoth Hospital Disaster Committee will attend the CHA conference in Sacramento in Sep, 2017. (Note 2)	Q2	Deb Diaz					
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Required					Deliver	rable(s)	1	
	 Documentation Completed Performance Measures IF jurisdiction has a COMPLETED Plan, (Performance Measures) Documentation of training Optional: Documentation of exercise/drill 							
Notes:						-		

Objective 2 (Domain 2, Activity 4 or Domain 5, Activity 2)			Mid-	Mid-Year Report		Year End Report	
Incorporate Medical Surge into the Health Care Coalition Response Plan. (Refer to Capability 2, Objective 1). (HPP Guide: Obj. 1 Activity 3)		Staff Lead (first and last name)	Status O	Primary Barrier (Describe in Notes) bjective	Status	Primary Barrier (Describe in Notes)	
	Q4	Richard Johnson		,			
Activities			A	ctivities			
1 Public Health will lead the new HCC in beginning to develop a HCC Response Plan, which will include medical surge. (Note 2 and 8)	Q4	Richard Johnson					
2 6/9/17: Public Health will review the required elements for a HCC Response Plan in guideance documents, and prepare a summary and presentation for an HCC meeting. (Notes 2 and 4)	Q4	Richard Johnson					
3 6/9/17: Public Health will present the requirements to the HCC, and invite discussion and input into a new HCC Response Plan. (Notes 2 and 4)	Q4	Richard Johnson					
4 6/9/17: Public Health, based on the requirements, the discussion and input received, will create a new draft HCC Response Plan. (Notes 2 and 4)	Q4	Richard Johnson					
5 6/9/17: Public Health will meet with the HCC, facilitate the development of consensus, and finally approval of a new HCC Response Plan. (Note 8)	Q4	Richard Johnson					
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Required				Deliver	able(s)		
Deliverable 1) Draft HCC Response Plan IF jurisdiction has a COMPLETED Plan 2) Documentation of training Optional: 3) Documentation of exercise/drill							
Notes:							

Objective 3	(Domain 5, Activity 2)			Mid	Mid-Year Report		Year End Report	
-	rocess for Family Reunification Plans.		Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)	
			1	(Objective		1	
		Q3	Richard Johnson					
Activities					Activities			
	Review existing plans for policies and procedures regarding family reunification (e.g., EOP, DOP, etc.) (Note 4)	Q1	Richard Johnson					
2	Create a Family Reunification Plan based on existing documents and other resources (Note 4)	Q2	Richard Johnson					
3	Provide training on this plan to the EMCC. (Note 9)	Q3	Richard Johnson					
4	Provide training on this plan to the Mammoth Hospital Disaster Committee. (Note 9)	Q3	Richard Johnson					
5	Provide training on this plan to the Unified Command. (Note 9)	Q3	Richard Johnson					
6	Provcide training on this plan to other members of the new HCC. (Note 9)	Q3	Richard Johnson					
8								
9								
10								
Required					Deliver	able(s)		
Deliverable	 Draft HCC Response Plan IF jurisdiction has a COMPLETED Plan Documentation of training Optional: Documentation of exercise/drill 							
Notes:								

Objective 4	(Domain 2, Activity 1 or Domain 5, Activity 1)			Mid-	Year Report	Year	End Report
Review Sta	te Patient Movement Plan when made available by CDPH.		Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
		ſ		C	bjective		
		Q2	Richard Johnson				
Activities				A	Activities		
1	Public Health will review the State Patient Movement Plan with the Mammoth Hospital Disaster Committee. (Note 2)	Q2	Richard Johnson				
2	Public Health will review the State Patient Movement Plan with the Emergency Medical Services Committee. (Note 2)	Q2	Richard Johnson				
3	Public Health will review the State Patient Movement Plan with the Unified Command. (Note 2)	Q2	Richard Johnson				
4	Public Health will review the State Patient Movement Plan with other members of a new HCC. (Note 2)	Q2	Richard Johnson				
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6							
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10							
Required Deliverable	1) Documentation				Deliver	able(s)	
Denverable	T) Documentation						
Notes:							

-Chemical or Radiation Burn Care Flaving Care Sebasional Health Infections Disease Mass Fatalities (HPP Guide: Obj. 2) See Appendix 1 for HPP Performance Measures 'Over the 5 Year Grant Cycle all eight components MUST BE tested at least once. Ativities	Objective 5 (Domain 5, Activity 4)			Mid-	Year Report	Year	End Report
Include : Date (first and last name) Status (Describe in Notes) Pediatric Care -Chemical or Radiation Burn Care -Trauma Care Behavioral Health -Infections Disease -Madea Countermeasures -Mass Fatalities 01 Deb Diaz Image: Care - Ca			01-11		Duinton - Douriou		Duineau Demieu
Pediatric Care Chemical or Radiation Burn Care Behavioral Health Infectious Disease Medical Countermeasures Medical Countermeasures Tover the 5 Vear Grant Cycle all eight components MUST BE tested at least once. Prover the 5 Vear Grant Cycle all eight components MUST BE tested at least once. Prover the 5 Vear Grant Cycle all eight components MUST BE tested at least once. Prover the 5 Vear Grant Cycle all eight components MUST BE tested at least once. Prover the 5 Vear Grant Cycle all eight components MUST BE tested at least once. Prover the 5 Vear Grant Cycle all eight components MUST BE tested at least once. Prover the 5 Vear Grant Cycle all eight components MUST BE tested at least once. Prover the 5 Vear Grant Cycle all eight components MUST BE tested at least once. Prover the 5 Vear Grant Cycle all eight components MUST BE tested at least once. Prover the 5 Vear Grant Cycle all eight components of Medical Surger will discuss and decide on which of the above components will be tested in the 2017 SWMHE, and teoported in the AAR/IP during this first year. (Notes 2 and 3) Prover Components will be tested and evaluated and reported in the AAR/IP during this first year. (Notes 2 and 3) Prover Components Prove				Status		Status	
Pediatric Care Obmical relation Or I Dab Daz Image: Care care statistics Image: Care care statistics Image: Care care care statistics Image: Care care care care care statistics Image: Care care care care care care care care c		Dale				Status	(Describe in Noles)
Burn Care - Trauma Care - Dehavioral Heath - Infectious Disease - Mass Fatalities Point Disease - Di	-Pediatric Care						
Trauma Care -behavioral Health -infectious Disease -Medical Countermeasures' -Mass Fatailies Image fatailies	-Chemical or Radiation						
Behavioral Health -Infectious Disease Mass Fatalities Q1 Deb Diaz Image: Second							
Infection Disease Medical Countermeasures Mass Failabilities Q1 Deb Diaz Image: Section of the sectin of the section of the section of the section of the s							
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See Appendra 1 for HPP Performance Measures Image: See Appendra 2 (Single Single S	-Mass Fatalities	Q1	Deb Diaz				
See Appendra 1 for HPP Performance Measures Image: See Appendra 2 (Single Single S							
*Over the 5 Year Grant Cycle all eight components MUST BE tested at least once. Activities Activities 1 Public Health will lead the HCC in a planning meeting for the 2017 Statewide Medical and Health Exercise, at which time multiple components of Medical Surge will be selected for testing and evaluation during the following tabletop and functional wavercises. (Note 3) 6/9/17: At the SWMHE Planning meeting, attendees will discuss and decide on which of the above components will be tested in the 2017 SWMHE, and decide on level of functionality and specific objectives to be tested and evaluated and reported in the AAR/IP during this first year. (Notes 2 and 3) Q1 Deb Diaz Q2 Image: Components will be tested in the 2017 SWMHE, and decide on which of the above components will be tested and evaluated and reported in the AAR/IP during this first year. (Notes 2 and 3) Image: Components will be tested in the 2017 SWMHE, and decide on level of functionality and specific objectives to be tested and evaluated and reported in the AAR/IP during this first year. (Notes 2 and 3) Image: Components will be tested in the 2017 SWMHE, and decide on level of functionality and specific objectives to be tested and evaluated and reported in the AAR/IP during this first year. (Notes 2 and 3) Image: Components will be tested in the 2017 SWMHE, and decide on level of functionality and specific objectives to and evaluation Image: Components will be tested in the 2017 SWMHE, and decide on tested in the 2017 SWMHE, and decide on tested in the 2017 SWMHE, and decide on tested in the 2017 SWMHE and deci	(HPP Guide: Obj. 2)						
*Over the 5 Year Grant Cycle all eight components MUST BE tested at least once. Activities Activities 1 Public Health will lead the HCC in a planning meeting for the 2017 Statewide Medical and Health Exercise, at which time multiple components of Medical Surge will be selected for testing and evaluation during the following tabletop and functional wavercises. (Note 3) 6/9/17: At the SWMHE Planning meeting, attendees will discuss and decide on which of the above components will be tested in the 2017 SWMHE, and decide on level of functionality and specific objectives to be tested and evaluated and reported in the AAR/IP during this first year. (Notes 2 and 3) Q1 Deb Diaz Q2 Image: Components will be tested in the 2017 SWMHE, and decide on which of the above components will be tested and evaluated and reported in the AAR/IP during this first year. (Notes 2 and 3) Image: Components will be tested in the 2017 SWMHE, and decide on level of functionality and specific objectives to be tested and evaluated and reported in the AAR/IP during this first year. (Notes 2 and 3) Image: Components will be tested in the 2017 SWMHE, and decide on level of functionality and specific objectives to be tested and evaluated and reported in the AAR/IP during this first year. (Notes 2 and 3) Image: Components will be tested in the 2017 SWMHE, and decide on level of functionality and specific objectives to and evaluation Image: Components will be tested in the 2017 SWMHE, and decide on tested in the 2017 SWMHE, and decide on tested in the 2017 SWMHE, and decide on tested in the 2017 SWMHE and deci							
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reported in the AAR/IP during this first year. (Notes 2 and 3) I <td< td=""><td>decide on level of functionality and specific objectives to be tested and evaluated and</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	decide on level of functionality and specific objectives to be tested and evaluated and						
Required Deliverable Deliverable 1) Documentation Image: Comparison of the second sec							
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Deliverable 1) Documentation							
					Deliver	able(s)	
Notes:	Deliverable 1) Documentation						
	Notes:						

Objective 6 (Domain 5, Activity 3)			Mid-	Year Report	Year End Report	
	diction's Alternate Care System. This includes, but not limited to, Alternate Care Sites Shelters. Select two of the following to review if sustainable for jurisdiction:	Est. Finish Date	Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
- Telemedicin	e/Virtual Medicine			C	Dbjective		
	riage/Early Treatment						
	e at Shelters						
	ernate Care Facilities Selection and Operation	Q3	Deb Diaz				
(HPP Guide:	Obj. 2 Activity 3)						
Activities				A	Activities		
	Public Health will review/revise plans for screening/triage/early treatment in the Iternate care system within the jurisdiction. (Note 5)	Q3	Richard Johnson				
	Public Health will review/revise plans for public health and medical involvement in eneral and medical shelters. (Note 5)	Q1	Richard Johnson				
	Public Health will review/revise the GAACS Plan to ensure it contains all the required elements. (Note 5)	Q1	Deb Diaz				
	Public Health will review plans for each acute care hospital for alternate sites for an ED e.g., both on-campus and off-campus). (Note 2)	Q1	Deb Diaz				
5							
6							
7							
8							
9							
10							
Required					Delive	rable(s)	T
Deliverable 1) Documentation of reviewing two of the identified methods for Alternate Care System						
Notes:					·		·

HPP Capability 4	
Medical Surge	

Objective 7				Mid-Year Report		Year End Report	
Optional		Est. Finish Date	Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
				0	bjective		
Activities				A	ctivities		
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
Required					Deliver	able(s)	
Deliverable	1) 2) 3)						
	3)						
Notes:							

HPP Capability 4	
Medical Surge	

Objective 8			Year End Report				
Optional		Est. Finish Date	Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
		.		0	bjective		
Activities				A	ctivities		
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
Required					Deliver	able(s)	-
Deliverable	1)						
	2) 3)						
Notes:						•	

Capability 4: Medical Surge - LEMSA

Goal:

Strengthen and further integrate the EMS response to public health and medical emergencies.

Known Gaps:

MCLEMSA ICEMA

Objective 1 (Domain 5, Mgmt of Medical Surge Activity 2)	Est.		Mid-Year Report		Year End Report	
LEMSA:		Staff Lead		Primary Barrier		Primary Barrier
Provide training for first responders and Health Care Coalition members on plans,	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
policies, and procedures for the transition from a single multi-casualty incident into a	_		C	Dbjective		
disaster response.						
Activities) otiviti oo		
	1		ŕ	Activities	r	
1						
2						
3						
4						
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7						
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9						
10						
Required	1			Delive	rable(s)	
Deliverable 1) Documentation						
Notes:					<u>.</u>	•

Objective 2 (Domain 5, Mgmt of Med Surge, Activity 4)	Est.		Mid-Year Report		Year End Report					
LEMSA:		Staff Lead		Primary Barrier		Primary Barrier				
Participate in the development, training, and testing of regional emergency	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)				
transportation plans for transport of suspect/confirmed patients with Ebola or other	Objective									
highly pathogenic diseases between frontline hospitals, Assessment Hospitals, and										
Treatment Centers.										
Activities			ļ	Activities						
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
Required				Delive	rable(s)	•				
Deliverable 1) Documentation of regional planning with the Healthcare Coalition and Op	peration	al Area partners.								
2) Patient tracking procedures for EMS										
Notes:										

Objective 3 (Domain 5, Mgmt of Med Surge, Activity 2)	Est.		Mid	Year Report	Year	End Report
LEMSA:	Finish	Staff Lead		Primary Barrier		Primary Barrier
Participate in information sharing for immediate Bed Availability and CAHAN systems	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
as appropriate for the LEMSA role and according to local policy.	-		(Dbjective		
Activities				Activities		•
1 Participate in quarterly Bed Availability drills.						
2 Coordinate with the LHD and HPP Entity to register, update, and maintain						
EMS contacts in CAHAN.						
3 Participate in quarterly CAHAN drills.						
4						
5						
6						
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8						
9						
10						
Required				Delive	rable(s)	
Deliverable 1) Updated EMS contacts in CAHAN.						
Notes:						

Objective 4 (Domain 2, Activity 4)	Est.		Mid-	Year Report	Year	End Report
LEMSA:		Staff Lead		Primary Barrier		Primary Barrier
Work collaboratively with the Local Health Department (LHD) to identify a local initiative	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
or project to meet local needs and delineate the LEMSA role from the public			C	bjective		
health/county role. Please list deliverables below as appropriate for the identified						
project.						
Activities			ŀ	Activities		
1						
2						
3						
4						
5						
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8						
9						
10						
Required		•		Delive	rable(s)	
Deliverable 1)						
2)						
Notes:						

Objective 5	Est.		Mid	Year Report	Year	· End Report
Optional	Finish Date	Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
		(Dbjective		, , , , , , , , , , , , , , , , , , ,
Activities				Activities	P	
1						
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8						
9						
10						
Required				Deliver	rable(s)	
Deliverable 1)						
2) 3)						
Notes:						

Objective 6	Est.		Mid-	Year Report	Year	End Report
Optional		Staff Lead (first and last name)	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
		(Dijective		, , , , , , , , , , , , , , , , , , ,
Activities			ļ	Activities		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10 Beruined				Duling		
Required Deliverable 1)			-	Deliver	able(s)	
2)						
2) 3)						
Notes:						

General Notes

	All Objective Activities and Deliverable	All Objective Activities and Deliverables should be S.M.A.R.T (Specific, Measurable, Assignable, Realistic, and Time-related).						
•	Small, Medium, Large Counties	Small County: Population < 200,000						
	(CHEAC)	Medium County: Population 200,000 - 699,999						
		Large County: Population 700,000 or more						

Specific Notes

#	Subject	Note				
1	HCC Members/Partners	ASPR defines an HCC member as an entitiv within the HCC's defined boudaries that contributes to HCC strategic planning, identification of gaps and mitigation strategies, operational planning and response, information sharing, and resource coordination and management.				
		See HPP 2017-2022 Capability Guide, Capability 1, Objective 1, Activity 2 for a list of HCC partners/members (not limited to the list)				
l		https://www.phe.gov/Preparedness/planning/hpp/reports/Documents/2017-2022- healthcare-pr-capablities.pdf				
2	Documentation	Meeting Agenda				
	Depending on the objective/acitivity this	Key outcomes/discussion and action items				
	includes but not limited to:	List of all invitees (distinguish between actuals and no-shows)				
		AAR/IP				
		Training materials				
		Exercise materials				
		List of participants				
		Meeting Minutes				
3	Evaluate in drill, exercise, or real	HSEEP compliant exercise				
	event	AAR/IP				
	This includes:	List of Participants				
		Copy of exercise materials				
4	Developing a plan activities	Meet with stakeholders				
	examples	Research				
		Draft				

FY 17-18 HPP Work Plan

		Share draft with stakeholders
		Revise to include stakeholder input
		Approval of plan
5	Sustainment activities	Meet with stakeholders
	examples	Training
		Test, drill, exercise
		Updating procedures, processes, checklists, Job Action Sheets, contact lists etc.
		Review/Revise plan(s)
6	Access to Care	Access to care includes physical access to public health or healthcare services during
		a disaster. (e.g., transportation, accessible medical care sites such as medical shelters
		or field treatment sites, PODs, etc.).
7	Top prioritized hazard(s):	The top hazard(s), as prioritized by the county. This does not require that you use the
		top hazards from the 2012 Public Health Risk Assessment.
8	Completed plana, presedures	Completed plans, policies, and preteople includes approved assording to least policy
0	Completed plans, procedures,	Completed plans, policies, and protocols includes approved according to local policy.
	protocols, etc	Working drafts may be considered completed if they are reviewed and updated as
		needed every two years.
9	At-Risk Populations	As defined at the local level, i.e. what populations are at-risk within your operational
		area. Additional resource:
		http://www.phe.gov/Preparedness/clearinghouse/casualty/Documents/atrisk.pdf

10	Required Planning Elements	1. Triggers for activation of the plan						
	Exercise must include at least 3							
		2. Decompression of hospitals, preload diversion to other delivery sites including						
		government authorized alternate care sites and triage protocols and routing of patients						
		 Evacuation/shelter in place pans and Operational Area support of facility plans Process for engaging behavioral/mental health 						
		5. Patient movement, distribution, and tracking						
		6. Volunteer management						
		7. Policies and procedures for information sharing and resource requesting for						
		healthcare coalition members consistent with standard EOM requirements.						
11	Pediatric or Neo-Natal Surge Tool	1. Contra Costa County Neonatal and Pediatric Disaster Toolkit (as an example to						
	Kits or useful information	show how this can be done)						
		2. Children's LA Disaster Pediatric Emergency Decision Support System (PEDSS)						
	Information provided by Pat Frost,	Logistics Tool for the actual surge calculators and tools to do the projections						
	Director of Emergency Medical	http://www.chladisastercenter.org/site/c.ntJYJ6MLIsE/b.3569369/k.BB83/PEDSS.htm						
	Services, Contra Costa Health Services	the actual tool is at http://pedss.isi.edu/pedss/.						
		3. Kidsdata.org for the easy accessible data to get started http://kidsdata.org/						
		4. https://sites.google.com/site/pedineonetwork/						
		5. OSHPD Hospital Bed capacity information (which always has to be validated locally to understand the real capability of the hospitals)						
		6. Bed capacity analysis done in 2011 by the Coalition which needs to have some						
		corrections and updating prior to making available, but this is what helped us figure this						
		out. 7. Marianne Gausche data from her pediatric readiness study would also help						
		http://www.pediatricreadiness.org/						
		8. EMSA has a Regional Trauma Care Commission Data form that has useful						
		information including pediatrics information but again would need to get the most						
		recent version from the EMS Authority.						

12	Healthcare Coalition Tier 1	Tier 1: Management of Individual Healthcare Assets
		http://www.phe.gov/Preparedness/planning/mscc/handbook/chapter2/Pages/default.as
		рх
	Healthcare Coalition Tier 2	Tier 2: Management of Healthcare Coalition
		http://www.phe.gov/Preparedness/planning/mscc/handbook/chapter3/Pages/default.as
		рх
	Healthcare Coalition Tier 3	Tier 3: Jurisdiction Incident Management
		http://www.phe.gov/Preparedness/planning/mscc/handbook/chapter4/Pages/default.as
		рх

FY 17/18 HPP Budget

Date: 5/12/2017

Entity Name: Mono County				
Allocation:	\$113,605			
Indirect Cost based on:	Personnel	S		
Personnel Costs Rate	25.0%			
Direct Costs Rate				

See Indirect Cost Rate tab

	BUDGET	
Budget Category	Total	% Allocation
Personnel	\$52,246.32	46%
Fringe	\$34,583.00	30%
Operating Expenses	\$3,390.35	3%
Equipment	\$0.00	0%
In State Travel	\$983.00	1%
Out of State Travel	\$0.00	0%
Subcontracts	\$0.00	0%
Other Costs	\$695.00	1%
Total Direct	\$91,897.67	81%
Indirect Cost (\$)	\$21,707.33	
Total Expenditures	\$113,605.00	
Payment Balance	\$0.00	
Balance	\$0.00	

	2017 - 2018 PROJECT BUDGET		ASPR HPP F	unds	Capability	Obj.	Facility	Budget Justidication
	Personnel						-	
	Position Title and Name of personnel in that position	FTE	Salary	Cost		ĩ		
HP101	Public Health Officer - Richard Johnson, M.D. Emergency Preparedness Manager - Debra Diaz	12%	\$ 165,911	\$19,909	Foundation for Healthcare and Medical Readiness Healthcare and	1	A	Coalition Coordinator - The Health Officer facilitates, develops, and directs all Pan Flu and HPP activities. Dr. Johnson is employed as a part-time Health Officer. Additional hours are funded by the grants, and subject to the availability of funds. Continuous time studies are used to track time in the different programs and grants. Fractional positions exist solely to support program operations. No other funding exists to support program activities related to this budget. HPP Coordinator - The Emergency Preparedness Coordinator oversees all staff education and training, and asists
	Emergency Preparedness Manager - Debra Diaz				Medical Response			the Health Officer in managing all grant activities, focusing on at-risk populations, CAHAN, and DHV.
HP102		50%	\$ 64,674	\$32,337	Coordination	1	А	the meaning officer in managing an grant activities, rocusing on acrisk populations, CAMAN, and DHV.
HP103		0070	\$ -	\$0				
HP104			\$ -	\$0				
HP105			\$ -	\$0				
HP106			\$ -	\$0				
HP107			\$-	\$0				
HP108			\$ -	\$0				
HP109			\$-	\$0				
HP110			\$ -	\$0				
HP111			\$ -	\$0				
HP112			\$-	\$0				
HP113			\$-	\$0				
HP114			\$-	\$0				
HP115			\$-	\$0				
HP116			\$-	\$0				
HP117			\$-	\$0				
HP118			\$-	\$0				
HP119			\$-	\$0				
HP120			\$-	\$0				
HP121			\$-	\$0				
HP122			\$-	\$0				
HP123			\$ -	\$0				
HP124			\$ -	\$0				
HP125			\$ -	\$0				
				\$52,246				
	Fringe Benefits	%						
	Subtotal Personnel and Fringe	66.19%		\$34,583 \$86,829				

UID	Operating Expenses	Cost	Capability	Obj.	Facility	Budget Justification
	Communication Services		Healthcare and			Monthly subscription charges for satellite phone and ATT Go Phone service. Satellite phone and ATT Go Phone
			Medical Response			service provides Mammoth Hospital with the capability to communicate, internally and externally with the MHOAC,
HOE101		\$3,390	Coordination	2	В	when other forms of communication are compromised.
HOE102		\$0				
HOE103		\$0				
HOE104		\$0				
HOE105		\$0				
HOE106		\$0				
HOE107		\$0				
HOE108		\$0				
HOE109		\$0				
HOE110		\$0				
HOE111		\$0				
HOE112		\$0				
HOE113		\$0				
HOE114		\$0				
HOE115		\$0				
HOE116		\$0				
HOE117		\$0				
HOE118		\$0				
HOE119		\$0				
HOE120		\$0				
	Operating Expenses Subtotal	\$3,390				

UID	Equipment (Minor/Major)	Quantity	Unit Price	Total	Capability	Obj.	Facility	Budget Justification
HE101								
HE102				\$0				
HE103				\$0				
HE104				\$0				
HE105				\$0				
HE106				\$0				
HE107				\$0				
HE108				\$0				
HE109				\$0				
HE110				\$0				
HE111				\$0				
HE112				\$0				
HE113				\$0				
HE114				\$0				
HE115				\$0				
HE116				\$0				
	Equipment Subtotal			\$0		_		

UID	In State Travel/Per Diem	Total	Capability	Obj.	Facility	Budget Justification
	2017 CHA Annual Conference		Foundation for			Per diem, mileage and lodging expenses for a key member of the Mammoth Hospital Disaster Preparedness
			Healthcare and			Committee (also essential member of the Mono County Healthcare Coalition) to attend the annual CHA
HT101		\$983	Medical Readiness	1	В	Conference in Sacramento in Sep 2017.
HT102		\$0				
HT103		\$0				
HT104		\$0				
	In State Travel/Per Diem Subtotal	\$983				
UID	Out of State Travel/Per Diem	Total	Capability	Obj.	Facility	Budget Justification
HT105		\$0				
HT106		\$0				
HT107		\$0				
	Out of State Travel/Per Diem Subtotal	\$0				

UID	Subcontracts	Total	Capability	Obj.	Facility	Budget Justification
HC101		\$0				
HC102		\$0				
HC103		\$0				
HC104		\$0				
HC105		\$0				
HC106		\$0				
HC107		\$0				
HC108		\$0				
HC109		\$0				
HC110		\$0				
HC111		\$0				
	Subcontract Subtotal	\$0				

UID	Other Costs	Total		Capability	Obj.	Facility	Budget Justification
	Software and Licenses		\$0				
HO101			\$0				
HO102			\$0				
HO103			\$0				
HO104			\$0				
HO105			\$0				
HO106			\$0				
	Training	\$	595				
	2017 CHA Annual Conference			Foundation for			Registration expense for a key member of the Mammoth Hospital Disaster Preparedness Committee (also
				Healthcare and			essential member of the Mono County Healthcare Coalition) to attend the annual CHA conference in Sacramento
HO107		\$	695	Medical Readiness	1	В	in Sep 2017.
HO108			\$0				
HO109			\$0				
HO110			\$0				
HO111			\$0				
HO112			\$0				
HO113			\$0				
HO114			\$0				
	Exercise Materials		\$0				
HO115			\$0				
HO116			\$0				
HO117			\$0				
HO118			\$0				
HO119			\$0				
	Maintenance Agreements		\$0				
HO120			\$0				
HO121			\$0				
HO122			\$0				
HO123			\$0				
HO124			\$0				
	Other Costs Subtotal	\$	695				
			- 1				
	Total Direct Costs	\$91,8	398				
	Total Indirect Costs	\$21,7					
			- 1				
	Total Costs	\$113,0	505				
		\$113,0					

		Cost Rate			
Local Entity	Personnel Cost	Direct Cost			
Alameda		11.18%			
Alpine		15.00%			
Amador	25.00%				
Berkeley (City of)		14.43%			
Butte	25.00%				
Calaveras	25.00%				
Colusa	25.00%				
Contra Costa	11.10%				
Del Norte	25.00%				
El Dorado	25.00%				
Fresno	25.00%				
Glenn	24.71%				
Humboldt	25.00%				
Imperial	25.00%				
Inyo	25.00%				
Kern	25.00%				
Kings	25.00%				
Lake	25.00%				
Lassen	25.00%				
Long Beach (City of)	20.47%				
Los Angeles	19.91%				
Madera	25.00%				
Marin	25.00%				
Mariposa	10.00%				
Mendocino	25.00%				
Merced	25.00%				
Modoc	22.79%				
Mono	25.00%				
Monterey	25.00%				
Napa	25.00%				
Nevada	25.00%				
Orange	19.85%				
Pasadena (City of)	19.45%				
Placer	25.00%				
Plumas	25.00%				
Riverside	25.00%				
Sacramento	14.48%				
San Benito	25.00%				
San Bernardino	15.62%				
San Diego	25.00%				
San Francisco	25.00%				
San Joaquin	25.00%				
San Luis Obispo	20.08%				
San Mateo	20.35%				
Santa Barbara	23.52%				
Santa Clara	25.00%				
Santa Cruz	20.04%				

Shasta	25.00%	
Sierra	25.00%	
Siskiyou	11.05%	
Solano		15.00%
Sonoma	23.39%	
Stanislaus	25.00%	
Sutter	25.00%	
Tehama	25.00%	
Trinity	25.00%	
Tulare	15.31%	
Tuolumne	25.00%	
Ventura	14.31%	
Yolo	25.00%	
Yuba	25.00%	

	Facilities										
UID	Facility Name	UID	Facility Name								
А	Mono County Public Health Department	AA									
В	Mammoth Hospital	BB									
С		CC									
D		DD									
E		EE									
F		FF									
G		GG									
Н		HH									
I		II									
J		JJ									
K		KK									
L		LL									
М		MM									
Ν		NN									
0		00									
Р		PP									
Q		QQ									
R		RR									
S		SS									
Т		TT									
U		UU									
V		VV									
W		WW									
Х		XX									
Y		YY									
Z		ZZ									

Mono County Capability 1 - Community Preparedness

Goal:

Local Health Departments will engage partners to review and update the jurisdiction's public health and medical risk assessment to prioritize or validate the top three hazards with the highest impact on public health, medical, behavioral health systems and environmental health with an emphasis on at-risk populations.

Known Gaps:

Further development of evacuation plans for at-risk populations needs to occur. We continue to have minimal participation from Behavioral Health in preparedness activities.

Please indicate what year you will complete a **Jurisdictional Risk Assessment** in the yellow highlighted cell using the dropdown menu.

FY2018-19

Objective 1 (Domain 1, Activity 2/Function 1)	Est.		Mid	-Year Report	Yea	r End Report
n coordination with the HPP program, update jurisdictional top three		Staff Lead		Primary Barrier		Primary Barrier
nazards/risks and identify gaps in readiness to respond for hazards/risks most	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
ikely to occur in the jurisdiction with the highest impact on public health, medical,	1			Objective		
behavioral health, environmental health and tribal entities in coordination with the						
Healthcare Coalition and other stakeholders.	Q4	Richard Johnson				
Activities				Activities		
1 Public Health will conduct its annual review and update of the Mono	Q3	Richard Johnson				
County Public Health 2011 Hazard Risk Assessment (HRA) with						
HPP partners in the Unified Command. (Notes 2, 4, and 6)						
2 Public Health will conduct its annual review and update of the Mono	Q3	Richard Johnson				
County Public Health 2011 Hazard Risk Assessment (HRA) with						
HPP partners in the Emergency Medical Care Committee. (Notes 2,						
4, and 6)						
3 Public Health will conduct its annual review and update of the Mono	Q2	Richard Johnson				
County Public Health 2011 Hazard Risk Assessment (HRA) with						
HPP partners in the Mammoth Hospital Disaster Committee. (Notes						
2, 4, and 6)						
4 Public Health will continue to enhance its "Mono Healthcare Coaliton	Q4	Richard Johnson				
Matrix: Member Roles And Responsibilities" document, which						
reflects the top three hazards and identified gaps in readiness for						
each of 13 organizational types, including public health, medical,						
behavioral health, environmental health, and tribal entities. (Note 2)						
	0.1		_			
5 Public Health will enhance its "Mono Healthcare Coalition Matrix",	Q4	Richard Johnson				
the Mono County MHOAC Program Manual, and the Public Health						
Department Operations Plan (DOP) to include behavioral health						
impact and preparedness for the public and responders. (Note 2)						
6						
7						
8						
9						
10						
Required				Deliver	able(s)	

PHEP Capability	1
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Community Preparedness

Mono Coun			_	
	1) Updated jurisdictional public health risk assessment which includes behavioral health impact and			
	preparedness for the public and responders.			
	2) Documentation of participation in jurisdictional public health risk assessment by Healthcare			
	Coalition and other stakeholders.			
Notes:				

Objective 2 (Domain 2, Activity 3/Function 2)	Est.		Mid	Year Report	Yea	r End Report
Continue to participate in local evacuation planning with local OES to:	Finish	Staff Lead		Primary Barrier		Primary Barrier
-Include public health and medical issues related to at-risk populations	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
-Develop plans	r	ī	(Dbjective		
-Sustain coordination with Healthcare Coalition Partners, stakeholders and local						
emergency management partners						
-Work with other stakeholders and agencies to address the needs of at-risk	Q3	Deb Diaz				
population (including such as Home Health Agencies, Social Services, CCS,	QU					
Behavior Health and HHS emPOWER mapping) -Plans should include messaging, evacuation, and transportation						
Activities				Activities		
1 The Health Officer will participate in the completion of a final Patient Movement Plan with CDPH and EMSA. (Note 2)	Q1	Richard Johnson				
2 The Health Officer will ensure that the Mono MHOAC Program Manual includes necessary information regarding messaging, evacuation, and transportation of at-risk populations. (Note 2)	Q1	Richard Johnson				
3 The Health Officer will review the Mono County Emergency Operations Plan (EOP) and the Public Health DOP for consistency with the above newly developed plans, and make recommendations for any revisions or additions regarding local evacuation of at-risk populations. (Note 2)	Q1	Richard Johnson				
4 Public Health will meet with local OES and agencies serving at-risk populations to ensure coordination of messaging, evacuation, and transportation of at-risk populations in any event. (Note 4)	Q3	Deb Diaz				
5						
6						
7						
8						
9						
10						
Required				Deliver	able(s)	
Deliverable 1) Documentation of local evacuation planning meetings with local er population agencies/organizations.	mergen	cy management at-risk				

Objective 3	3 (Domain 1, Activity 3/Function 2)	Est.		Mid-	Mid-Year Report		Year End Report	
			Staff Lead		Primary Barrier		Primary Barrier	
	en community partners (Note 7) where there are gaps and test based	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)	
on the juriso	dictional public health risk assessment.	1	T	C	bjective		r	
		Q3	Deb Diaz					
Activities				A	Activities		1	
1	Public Health will select and meet with 2 community sectors (Note 7) where there are gaps, and based on one of the top 3 identified hazards, plan an activity (Note 3) that will include the ID and/or prioritization of vulnerable populations (Note 10), demonstrating community resilience.	Q3	Deb Diaz					
2	Public Health will conduct the selected activity with one of the partners. (Note 3, 7, and 10)	Q3	Deb Diaz					
3	3 Public Health will conduct the selected activity with the other of the two selected partners (Note 3, 7, and 10)	Q3	Deb Diaz					
5								
7	/ /							
9								
10								
Required					Deliver	able(s)		
Deliverable	 Deliverable 1) An AAR from a real event, exercise, workshop or agendas/minutes from a community meeting which improved community resilience. 2) Documentation of community partnership meetings and identification and/or prioritization vulnerable populations demonstrating community resilience. 							
Notes:								

Objective 4	(Domain 1, Activity 4/Function 4)	Est.		Mid-	Year Report	Year	End Report
Contribute to	o community preparedness by providing or make available training	Finish	Staff Lead		Primary Barrier		Primary Barrier
on the EOM	, to public, private, and community partners.	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
				C	bjective		
		Q1	Richard Johnson				
Activities				ļ	Activities		
	Once the revised EOM is available, the Health Officer (MHOAC) will conduct a training at the Mono County Unified Command, which includes public, private, and community partners. (Note 9)	Q1	Richard Johnson				
2	Once the revised EOM is available, the Health Officer (MHOAC) will conduct a training at the Emergency Medical Care Committee, which includes public, private, and community partners. (Note 9)	Q1	Richard Johnson				
3	Once the revised EOM is available, the Health Officer (MHOAC) will conduct a training at the Mammoth Hospital Disaster Committee. (Note 9)	Q1	Richard Johnson				
4							
5							
6							
7							
8							
9							
10							
Required		-			Deliver	able(s)	
Deliverable	1) Documentation of EOM workshop(s), trainings, and/or table top w	ith com	munity partners.				
Notes:							

Objective 5 (Domain 1, Activity 4/Function 4)			Mid-Year Report		Year End Report	
Provide training or make available training on how the MHOAC Program		Staff Lead		Primary Barrier		Primary Barrier
coordinates with Behavioral Health in preparedness, response, and recovery to	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
public, private, and community partners.		T	C	Dbjective		T
	Q3	Richard Johnson				
Activities			/	Activities		
1 The MHOAC (Health Officer) will meet with Behavioral Health and	Q1	Richard Johnson	Ī			
create a Behavioral Health Concept of Operations (COOP) to						
include in the Public Health DOP and/or the MHOAC Program						
Manual. (Note 2)						
2 The MHOAC will provide training on said COOP to the Unified	Q3	Richard Johnson				
Command, which includes public, private, and community partners.						
(Note 9)						
3 The MHOAC will provide training on said COOP to the Emergency	Q3	Richard Johnson				
Medical Care Committee, which includes public, private, and						
community partners. (Note 9)						
4 The MHOAC will provide training on said COOP to the Mammoth	Q3	Richard Johnson				
Hospital Disaster Committee. (Note 9)						
6						
5						
6						
7						
8						
9						
10						
Required				Deliver	able(s)	
Deliverable 1) Documentation of MHOAC workshop(s), trainings, and/or table to	p with c	community partners.				
Notes:				1		1

Objective 6 (Domain 1, Activity 4/Function 4)	vity 4/Function 4) Est. Mid-1		-Year Report	Year End Report		
Engage tribal entities in public health preparedness activities and exercises and	-	Staff Lead		Primary Barrier		Primary Barrier
include their input into programmatic content and implementation of jurisdictional	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
public health emergency preparedness and response plans (for example:		T T	(Objective		1
advisory committees or similar organizational approaches).	Q4	Deb Diaz				
Activities		· ·	l	Activities		•
1 We will maintain updated and current contact lists for key persons in the Toiyabe Indian Health Project (TIHP), which represents all of the recognized tribes in Mono County. (Note 3)		Deb Diaz				
2 We will include TIHP personnel in all communications (e.g., Mono- Grams) on a day-to-day basis. (Note 3)	Q4	Richard Johnson				
3 We will include TIHP in the Statewide Medical and Health Exercise (SWMHE) Planning meeting. (Notes 1 and 4)	Q1	Deb Diaz				
4 We will include TIHP in the SWMHE (tabletop). (Note 1)	Q2	Deb Diaz				
5 We will include TIHP in the SWMHE (functional). (Note 1)	Q2	Deb Diaz				
6 We will continue to include TIHP in our trainings offered at the quarterly Unified Command meetings, which they attend. (Note 4)	Q4	Richard Johnson				
8						
10						
Required		<u> </u>		Deliver	able(s)	
Deliverable 1) List of outreach efforts and documented materials used for outreach in community preparedness.	h to Tr	ibal entities to participate				
Notes:						

Mono County Capability 2: Community Recovery

Goal:

Local Health Departments will have plans in place to rebuild public health, environmental, medical, and behavioral health systems to at least a level of functioning comparable to pre-incident levels.

Known Gaps:

Since this has been a low priority area, little work has been done to engage our partners and stakeholders in recovery activities.

Objective	Objective 1 (Domain 1, Activity 3/Function 1)			Mid-Year Report		Year End Report			
Review an	d update Public Health continuity plans based on real events, exercise	Finish	Staff Lead		Primary Barrier		Primary Barrier		
and improv	vement plans to address gaps identified. (Refer to PHEP Capability	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)		
Guide, pag	je 23)		_	Objective					
		Q4	Richard Johnson						
Activities				A	Activities				
	1 Public Health will review the continuity chapter in the Public Health DOP to identify any gaps based on real events, exercises, and improvement plans. (Note 2) (See bulleted list on p. 23 of the March 2011 PH Preparedness Capabilities document)	Q1	Richard Johnson						
	2 Public Health will revise/enhance the continuity chapter to address the identified gaps. (Note 2)	Q2	Richard Johnson						
	3 Public Health will train public health staff on the continuity plan. (Note 9)	Q3	Richard Johnson						
	4 The MHOAC will work with Region VI partners to produce a new Region VI Med/Health Mutaul Aid Agreement. (Note 2)	Q4	Richard Johnson						
	5 The MHOAC will work to obtain approval of the new Region VI Med/Health Mutaul Aid Agreement from the necessary authorities (TBD, e.g., Health Officer, MHOAC, Health Director, Board of Supervisors, etc.) (Note 2)	Q4	Richard Johnson						
	6								
	7								
	8								
	9								
1	0								
Required				-	Deliver	able(s)	•		
Deliverable	 Documentation of identified gaps in continuity planning. Improvement Plan(s) from real event(s) and/or exercise(s) which in plan(s), or updated continuity resource guide. Developed or updated Public Health Continuity of Operations Plan 	•	Public Health continuity						
Notes:				-					

	Est.		Mid-Year Report		Year End Report	
are recovery planning efforts with local Emergency Management in order to	Finish	Staff Lead		Primary Barrier		Primary Barrier
et public health's community recovery from physical, behavioral injury, illness	, Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes
exposure sustained during an incident.			(Dbjective		-
	Q4	Richard Johnson				
	Q,					
ivities			I	Activities		
1 Public Health will review the Mono County EOP for elements related to public health's community recovery from physical, behavioral, injury, illness, or exposure, espeically as it relates to the functional needs of at-risk populations. (Note 2)	d Q1	Richard Johnson				
2 Public Health will review the Mono County MHOAC Program Manua for elements related to public health's community recovery from physical, behavioral, injury, illness, or exposure, espeically as it relates to the functional needs of at-risk populations. (Notes 2 and 10)	al Q1	Richard Johnson				
3 Public Health will review the Public Health DOP for elements relate to public health's community recovery from physical, behavioral, injury, illness, or exposure, espeically as it relates to the functional needs of at-risk populations. (Notes 2 and 10)	d Q1	Richard Johnson				
4 Public Health will review the Region VI Med/Health Mutual Aid Agreement for elements related to public health's community recovery from physical, behavioral, injury, illness, or exposure, espeically as it relates to the functional needs of at-risk populations (Notes 2 and 10)	Q3	Richard Johnson				
5 Public Health will meet with local OES to review said documents for consistency and to identify gaps in plans to meet community needs (Notes 2 and 4)	· Q3	Richard Johnson				
6 Public Health and OES will make recommendations for revisions to above plans in order to fill identified gaps. (Note 2)	Q3	Richard Johnson				
7 Public Health will revise the DOP and MHOAC Program Manual based on above recommendations. (Note 2)	Q3	Richard Johnson				
8 Public Health will work with partners to create a draft resource guid on community recovery needs. (Note 2)	e Q4	Richard Johnson				
9						

Community Recovery

Mono Count	ty			
Required		Delive	rable(s)	
	 Documentation of recovery planning efforts with local emergency management (i.e. meeting minutes, workshops, trainings, etc.) Update resource guide on community recovery needs. 			
Notes:				

	(Domain 1, Activity 4/Function 2)	Est.		Mid-`	Year Report	Year End Report	
	with community partners (Note 7) to identify public and private		Staff Lead		Primary Barrier		Primary Barrier
	avioral health organizations, environmental health and medical	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
	t would be available within the community during and after an	-		0	bjective		
incident in c	rder to meet the communities recovery needs.	Q4	Deb Diaz				
Activities				A	ctivities		
1	Public Health will work with partners in each sector to generate a list of public and private organizations potentially available to meet the recovery needs of Mono County. (Note 7)	Q2	Deb Diaz				
2	Public Health will present a training at Unified Command addressing community recovery. (Note 4)	Q3	Deb Diaz				
3	Public Health will work with partners to identify gaps in community recovery. (Note 2)	Q4	Deb Diaz				
4							
5							
0 7							
7							
9							
10							
Required					Deliver	able(s)	
	 Documentation of community meetings, workshop(s), training(s), c community recovery. Identified gaps in community recovery in your jurisdiction. 	or impro	vement plans address				
Notes:							

Objective 4 ([Domain 2, Activity 1/Function 2)	Est.		Mid	-Year Report	Yea	r End Report
Maintain All H	azards Emergency Preparedness and Response Plans for public	Finish	Staff Lead		Primary Barrier		Primary Barrier
health and me	dical and receive continuous input from local emergency	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
	stakeholders, tribal entities, health care delivery system,		··· · · · · · · · · · · · · · · · · ·	(Objective		<u> </u>
	and behavioral health and the public including members of at-risk						
populations.	, č	Q3	Richard Johnson				
Activities					Activities		•
1 P	ublic Health will maintain a Mono County MHOAC Program	Q1	Richard Johnson				
M	anual, which is or references other plans which together comprise						
	e Mono County "All Hazards Emergency Preparedness and						
	esponse Plan [®] . (Note 2)						
2 P	ublic Health will provide training to the Unified Command on said	Q3	Richard Johnson				
pl	ans, and solicit continuous input from entities, including EM, EMS,						
fir	e, Toiyabe Indian Health Project (tribal), Mammoth Hospital, EH,						
B	H, and agencies serving at-risk populations. (Notes 4, 7, 9, nd 10)						
2							
		_ _ '					
4							
5							
6							
7							
8							
9							
10							
Required		I	1	1	Deliver	able(s)	
· ·	Updated All Hazards Emergency Preparedness and Response Pla	ans for r	oublic health and				
	edical.						
	Documentation of participation from local emergency management						
	s: tribal entities, health care delivery system, the public including me						
u			or at non populations.				
Notes:							I

Mono County Capability 3: Emergency Operations Coordination

Goal:

Local Health Departments will strengthen the public health and medical response system by updating plans, policies, and procedures to address public, environmental, behavioral health functions of the Medical and Health Operational area coordinator (MHOAC) program.

Known Gaps:

Due to staff turnover, we have trained alternate MHOACs at the moment.

Objective 1	(Domain 2, Activity 1/Function 1)	Est.		Mid-	Year Report	Year	End Report
	ufficient number of public health response personnel trained to the	Finish	Staff Lead		Primary Barrier		Primary Barrier
	on of Responder Training levels Tier 1-4 to meet the needs of the	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
jurisdiction of	during an unusual event and emergency system activation.			C	Dbjective		
		Q4	Deb Diaz				
Activities				ŀ	Activities		
	Maintain current training records for all Public Health response personnel. (Note 9)	Q1	Deb Diaz				
	Maintain a roster of persons potentially assigned to a public health DOC, with redundancy in each position. (Note 9)	Q1	Deb Diaz				
3	Provide or provide access to required training to meet the goal as stated. (Note 9)	Q4	Deb Diaz				
4							
5							
6							
7							
8							
9							
10							
Required					Deliver	able(s)	
Deliverable	1) Training records of public health response personnel (Documenta	tion)					
Notes:							

Objective 2 (Domain 2, Activity 1/Function 1 & 3)	Est.		Mid-	Year Report	Year	End Report
Continue Integration with environmental health, mental/behavioral health and	-	Staff Lead		Primary Barrier		Primary Barrier
HCC into the public health emergency planning and response structure utilizing	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
the MHOAC and working with local Office of Emergency Services (OES).		•	C	bjective		
	Q4	Richard Johnson				
	Ч Ч					
Activities			A	ctivities		
1 Review and update (as necessary) the Public Health DOP to ensure	Q1	Richard Johnson				
planning and response structure includes MHOAC, EH, BH, HCC,						
local OES, Toiyabe Indian Health Project, EMS, Mammoth Hospital,						
and at-risk populations. (Notes 2 and 8)						
2 Review and update (as necessary) the MHOAC Program Manual to	Q1	Richard Johnson				
ensure planning and response structure includes MHOAC, EH, BH,						
HCC, local OES, Toiyabe Indian Health Project, EMS, Mammoth						
Hospital, and at-risk populations. (Notes 2 and 8)						
3 Review and make recommendations to update (as necessary) the	Q2	Richard Johnson				
Mono County EOP to ensure planning and response structure						
includes MHOAC, EH, BH, HCC, local OES, Toiyabe Indian Health						
Project, EMS, Mammoth Hospital, and at-risk populations. (Notes 2						
and 8)						
4 Provide updates and appropriate training on these 3 plans at 1st	Q1	Richard Johnson				
quarter Unified Command meeting. (Note 4)						
5 Provide updates and appropriate training on these 3 plans at 2nd	Q2	Richard Johnson				
quarter Unified Command meeting. (Note 4)	QZ					
6 Provide updates and appropriate training on these 3 plans at 3rd	Q3	Richard Johnson				
quarter Unified Command meeting. (Note 4)	QJ	Richard Johnson				
	04	Dishard Johnson				
7 Provide updates and appropriate training on these 3 plans at 4th quarter Unified Command meeting. (Note 4)	Q4	Richard Johnson				
8						
9						
10						
Required		•	•	Deliver	able(s)	•

PHEP Capability 3
Emergency Operations Coordination

Mono	County

	 Documentation of public health and medical's role in the O/A's overall emergency management structure and it reflects public health and medical role in O/A plan, annex or organization structure. Documentation of participation from local emergency management and other stakeholders, such as: tribal entities, health care delivery system, the public including members of at-risk populations. 		
Notes:			

Objective 3	(Domain 2, Activity 2/Function 2)	Est.		Mid-	Year Report	Year	End Report
	mentation (i.e. just-in-time training, staffing schedule, etc.) for		Staff Lead		Primary Barrier		Primary Barrier
	nimum level of General and Command staff for the DOC/EOC	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
covering a n	ninimum of 72 hours.			(bjective		
		Q4	Deb Diaz				
Activities		-		-	Activities		
	Public Health will maintain a roster of trained personnel for staffing a public health DOC with Command and General Staff, and staffing a Med/Health Branch of an OA EOC, for at least 72 hours. (Note 2 and 8)	Q4	Deb Diaz				
	Public Health will review and update Job Action Sheets for each of the Command and General Staff positions in the DOC, and a Med/Health Branch in an OA EOC(Note 9)	Q1	Deb Diaz				
	The MHOAC will work with Region 6 partners to complete a Region 6 Med/Health Mutual Aid Agreement. (Notes 2 and 8)	Q3	Richard Johnson				
	Public Health will provide training to all identified staff who potentially might fill Command and/or General staff positions in a public health DOC or a Med/Health Branch of an OA EOC. (Note 9)	Q2	Richard Johnson				
5							
6							
7							
8							
9							
10							
Required					Deliver	able(s)	
 Deliverable 1) Developed/updated Job action sheet to correspond to the skills and actions necessary to fulfill identified roles in the department's DOC/EOC or Medical and Health branch of O/A's EOC. 2) Documentation to staff a minimum level of General and Command staff for the DOC/EOC to cover a minimum of 72 hours, which may include a request for mutual aid. 3) Maintain a list of trained personnel. 							
Notes:							

Objective 4 (Domain 2, Activity 4/Function 3 & 4)	Est.		Mid-	Year Report	Year	· End Report
Review updated State MHOAC guide and update county's MHOAC guide in	Finish	Staff Lead		Primary Barrier		Primary Barrier
coordination with partners of the 17 MHOAC functions.	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
			C	bjective		
	Q3	Richard Johnson				
Activities			ŀ	Activities		
1 The Health Officer will provide training to alternate MHOACs on the Mono County MHOAC Program Manual. (Note 9)	Q1	Richard Johnson				
2 The Health Officer will provide training to Unified Command on the Mono County MHOAC Program Manual. (Note 9)	Q1	Richard Johnson				
3 The Health Officer will provide training to the Mammoth Hospital Disaster Committee on the Mono County MHOAC Program Manua (Note 9)	Q1	Richard Johnson				
4 The Health Officer will provide training to the Emergency Medical Care Committee on the Mono County MHOAC Program Manual. (Note 9)	Q1	Richard Johnson				
5 The MHOAC Program will maintain the ability to use an Excel file for tracking public health and medical resources through the MHOAC Program. (Note 8)	or Q4	Deb Diaz				
6						
7						
8						
9						
10						
Required	•	-		Deliver	rable(s)	
Deliverable 1) Reviewed State MHOAC guide 2) Updated local MHOAC guide 3) Documented process for tracking public health and medical resc program.						
Notes:						·

Objective 5 (Domain 2, Activity 2/Function 4)	Est.		Mid-	Year Report	Year	End Report
Finalize a process for demobilizing resources at the end of an activation in	Finish	Staff Lead		Primary Barrier		Primary Barrier
coordination with the MHOAC, including public health, medical,	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
mental/behavioral and environmental health.			C	bjective		
	Q3	Richard Johnson				
Activities			A	Activities		
1 The MHOAC Program will include in the MHOAC Program Manual plan for demobilizing med/health resources at the end of an activation, to include public health, medical, BH, and EH resource (Notes 2 and 8)		Richard Johnson				
2 The process will be reviewed with the Emergency Medical Care Committee, and revised as necessary (Notes 2, 4, and 8)	Q3	Richard Johnson				
3 The process will be reviewed with the Mammoth Hospital Disaster Committee, and revised as necessary (Notes 2, 4, and 8)		Richard Johnson				
4 The process will be reviewed with the Unifed Command, and revised as necessary (Notes 2, 4, and 8)	Q2	Richard Johnson				
5						
6						
7						
8						
9						
10						
Required	<u> </u>			Deliver	rable(s)	
· · · · · · · · · · · · · · · · · · ·	ble 1) Demobilization plan or checklist for the public health and medical O/A resources which includes					
Notes:						

Objective 6	(Domain 2, Activity 2/Function 5)	Est.		Mid-	Year Report	Year End Report	
Continue to	complete tasks identified in improvement plans and track all	Finish	Staff Lead		Primary Barrier		Primary Barrier
improvemer	t plans to completion.	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
				(Dbjective		
		Q4	Deb Diaz				
Activities				I	Activities		
	Public Health will review and refine the process for tracking, monitoring, and completing improvement items identified in AAR/IPs (Note 2)	Q1	Deb Diaz				
	Public Health will review and track progress toward completion of improvement plan items from AAR/IP's as assigned to various partners at the beginning of every quarter. (Note 3)	Q4	Deb Diaz				
3							
4							
5							
6							
7							
8							
9							
10							
Required				-	Deliver	able(s)	
Deliverable	 Documented process for tracking Improvement plans. Documentation that tasks identified for improvement are being con 						
Notes:							

Mono County Capability 4: Emergency Public Information and Warning

Goal:

Local Health Departments will strengthen the ability to develop, coordinate, and disseminate information, alerts, warnings, and notifications to the public and incident management responders.

Known Gaps:

There are known gaps in our ability to outreach to all of the 11 sectors, including faith-based and behavioral health. Our CERC Plan needs to be enhanced and updated to reflect current policy, procedures, and technology. Templates need to be added for the top three hazards.

PHEP Capability 4 Emergency Public Information and Warning

Objective 1	(Domain 3, Activity 3/Function 1)	Est.		Mid	Year Report	Year	End Report
Sustain abil	ity to activate the emergency public information system during a real	Finish	Staff Lead		Primary Barrier		Primary Barrier
	ercises, to test the call down list for pre-identified staff to participate in	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
public inform				(Dbjective		
		Q4	Deb Diaz				
Activities					Activities		
1	Review and update if necessary, the PH DOP to ensure inclusion of	Q1	Richard Johnson				
	current procedure to activate the PH public information system.						
	(Note 2)						
2	Review and update if necessary, the PH DOP to ensure inclusion of	Q1	Richard Johnson				
	current procedure to integrate PH PIO function with the OA EOC						
	and PIO when activated (Note 2)						
3	Ensure primary PH PIO and back-up have the training as	Q4	Richard Johnson				
	recommended by federal guidelines. (Note 9)						
		<u> </u>		_			
4	Document the exercising/real event activation of PH public	Q4	Deb Diaz				
	information function. (Note 1)						
5							
6							
7							
8							
9							
10							
Required		<u> </u>			Deliver	able(s)	
Deliverable	1) Documentation of exercising public information during a real event	or exe	rcise.		-	()	
Notes:				<u>.</u>			1

PHEP Capability 4 Emergency Public Information and Warning

Objective 2	(Domain 3, Activity 3/Function 2)	Est.		Mid-	Year Report	Year	End Report
Test one or	more of the following items, a "real event" will meet this objective:	Finish	Staff Lead		Primary Barrier		Primary Barrier
- Joint Inform	nation Center (JIC)	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
- Public hea	Ith call down list			C	bjective		
- Public hea	Ith media contact list						
- Ability to tr	ack media inquiries						
Note: Each	element must be tested at least once every 5 years.	Q4	Deb Diaz				
Activities				A	Activities		
	Conduct an exerise (or real event if occurs) when the PH call down list is tested after hours. (Note 1)	Q4	Deb Diaz				
2							
3							
4							
5							
6							
7							
8							
9							
10							
Required					Deliver	able(s)	
	1) Documentation of an exercise or real event that tested one of the f down, public health media contact list, and/or ability to track media in						
Notes:							

PHEP Capability 4 Emergency Public Information and Warning

Objective 3 (D	Domain 3, Activity 3/Function 3)	Est.		Mid	-Year Report	Year	r End Report
	State monthly PIO conference calls and utilize information to		Staff Lead		Primary Barrier		Primary Barrier
	ublic communication plan.	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
				(Objective		
		Q4	Richard Johnson				
Activities				/	Activities		
1 Do	ocument participation in monthly PIO conference calls (Note 4)	Q4	Richard Johnson	Τ			
2 Ur	pdate CERC chapter in the PH DOP. (Note 2)	Q1	Richard Johnson				
3							
4							
5		<u> </u>					
6							
7							
8							
9							
10							
Required					Deliver	rable(s)	
Deliverable 1)	Updated local communication plan.						
Notes:							

Mono County Capability 5: Fatality Management

Goal:

Local health departments will identify public health's role during a mass fatality incident which includes stakeholders, determining capacity and impact on the public health and medical system.

Known Gaps:

Although we have a draft Fatality Management, it has not been reviewed by the Coroner.

Objective 1 (Domain 5, Activity 4/Function 1 & 2)	Djective 1 (Domain 5, Activity 4/Function 1 & 2) Est. Mid-Year Report		Year Report	Year	End Report	
Develop or sustain working relationships with lead agency for mass fatal	ity Finish	Staff Lead		Primary Barrier		Primary Barrier
incidents, to determine and document public health's role in mass fatality	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
management.			(Dbjective		
	Q1	Richard Johnson				
Activities				Activities		
1 PH will meet with Coroner or designee to review the PH Ma Fatality Plan. (Note 4)		Richard Johnson				
 2 PH will review the PH Mass Fatality Plan to ensure inclusion procedures for providing situational awarenss and reporting 2) 		Richard Johnson				
3						
4						
5						
6						
7						
8						
9						
10						
Required				Deliver	rable(s)	
Deliverable 1) Documentation of Public Health's participation in mass fa 2) Update procedures for providing situational awareness and						
Notes:						

Objective 2	(Domain 5, Activity 4/Function 4)	Est.		Mid-Year Report		Year End Report	
	ead agency for opening a Family Assistance Center (FAC) and	Finish	Staff Lead		Primary Barrier		Primary Barrier
	n the lead to document Public Health, Behavioral Health and Medical	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
Health Oper	ational Area Coordination's (MHOAC) role in a FAC.			C	Dbjective	-	
		Q1	Richard Johnson				
Activities		_		A	Activities		
	Public Health will meet with local OES Emergency Services Coordinator to confirm lead agency designation for opening a FAC. (Note 4)	Q1	Richard Johnson				
	Public Health will meet with the designated lead agency to document the MHOAC's role in a FAC to coordinate BH services. (Note 4)	Q1	Richard Johnson				
3							
4							
5							
6							
7							
8							
9							
10							
Required					Deliver	able(s)	
	1) Documentation of Public Health's role to provide behavioral health mass fatality.	community during a					
Notes:							

	(Domain 5, Activity 4/Function 5)	Est.		Mid	Year Report	Year End Report	
Coordinate	with partners to collect and report vital records during and after a	Finish	Staff Lead		Primary Barrier		Primary Barrier
mass fatality		Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
				(Dbjective		
		Q1	Richard Johnson				
Activities				/	Activities		
	PH will meet with partners (Coroner, Recorder's Office, etc.) to clarify and document PH's role in collecting, reporting, and providing vital records after a mass fatality incident. (Note 4)	Q1	Richard Johnson				
	PH will include said documentation of PH's role into the PH Mass Fatality Plan. (Note 2)	Q1	Richard Johnson				
3							
4							
5							
6							
7							
8							
9							
10							
Required					Deliver	able(s)	
Deliverable	1) Documentation of Public Health's role to collect, report and provide mass fatality incident.						
Notes:							

Mono County Capability 6: Information Sharing

Goal:

Local Health Departments will maintain the ability to obtain and share situational awareness with partners during unusual events and emergency system activations.

Known Gaps:

With staff turnover, training and drilling on policy and procedures is on-going.

Objective 1 (Domain 3, Activity 2/Function 1)			Mid-	Mid-Year Report		Year End Report	
Continue to update and maintain public health, environmental health, behavioral		Staff Lead		Primary Barrier		Primary Barrier	
health, EMS, fire, law, local Office of Emergency Services (OES) and medical	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)	
system stakeholder contact information and mode of preferred communication.	-		(Dbjective	-		
	Q4	Deb Diaz					
	QT						
Activities		•	-	Activities			
1 Public Health will review and revise the Information Sharing	Q1	Richard Johnson					
document, the Field to OA Situational Reporting and Resource							
Requesting form, and the MHOAC Program Manual, which includes							
public health, LEMSA, fire, law, OES, and medical stakeholder							
contact information and mode of preferred communication. (Note 3)							
2 Public Health will update all contact information in these 3	Q1	Deb Diaz					
documents at the end of the first quarter. (Note 3)							
3 Public Health will update all contact information in these 3	Q2	Deb Diaz					
documents at the end of the second quarter. (Note 3)							
4 Public Health will update all contact information in these 3	Q3	Deb Diaz					
documents at the end of the third quarter. (Note 3)							
5 Public Health will update all contact information in these 3	Q4	Deb Diaz					
documents at the end of the fourth quarter. (Note 3)							
6							
7			_				
8							
9							
10							
Required				Deliver	able(s)		
Deliverable 1) Documentation of updated contact information of key response particular	artners a	and stakeholders.					
Net er							
Notes:							

Objective 2 (Dom	ain 3, Activity 1/Function 1)	Est.		Mid-	Year Report	Year	· End Report
	hen appropriate on the process of maintaining and updating		Staff Lead		Primary Barrier		Primary Barrier
	health directory, stakeholder contact information, situational	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
	formation sharing needs and provide continuing education to		1	C	bjective	Ī	r
ensure the proces	s can be sustained in the event of staff turnover.						
		Q1	Deb Diaz				
Activities					Activities		l
	ill review the PH DOP (6/9/17: Department Operations Plan) to	Q1	Richard Johnson				
	e current process (6/9/17: to maintain and update a role based	QI	Richard Johnson				
	c health directory, stakeholder contact information, situational						
	awareness, and information sharing) is maintained. (Note 3)						
	ill provide training to redundant designated staff on said	Q1	Deb Diaz				
	ss. (Note 9) 6/9/17: This training will occur at monthly regularly						
	duled public health and environmental health staff meetings,						
	sting of didactic presentations, discussion, and tabletop with arios in order to engage staff in creative thinking about the						
issues							
13300	5.						
3							
4							
5							
6							
7							
8							
9							
10				1			
Required					Deliver	rable(s)	
Deliverable 1) Do	cumentation staff trained to maintain contact information of key	respon	se partners and				
	holders.	•					
Notes:							1

Objective 3 (Domain 3, Activity 1/Function 2)		Est.		Mid-Year Report		Year End Report	
	ant communication modes for sharing of situational awareness with	Finish	Staff Lead		Primary Barrier		Primary Barrier
key stakeho	lders; a real event will meet this objective.	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
				(bjective		
		Q3	Deb Diaz				
Activities		-		-	Activities		
1	The Health Officer will review procedures for using redundant	Q1	Richard Johnson				
	communication modes for sharing situational awareness as stated in						
	the MHOAC Program Manual with partners in the Unified						
	Command, and revise as necessary. (Note 4)	0.4					
2	The Health Officer will review procedures for using redundant	Q1	Richard Johnson				
	communication modes for sharing situational awareness as stated in the MHOAC Program Manual with partners in the Emergency						
	Medical Care Committee, and revise as necessary. (Note 4)						
	Medical Care Committee, and revise as necessary. (Note 4)						
3	The Health Officer will review procedures for using redundant	Q1	Richard Johnson				
	communication modes for sharing situational awareness as stated in						
	the MHOAC Program Manual with partners in the Mammoth						
	Hospital Disaster Committee, and revise as necessary. (Note 4)						
4	PH will test the use of redundant communication modes to share	Q3	Deb Diaz				
	stuational awareness with partners as part of an exercise (or real						
	event). AAR will be developed.(Note 1)						
5							
6							
1							
0							
Required	1		1		Deliver	able(s)	
Deliverable	1) Documentation of meetings and planning efforts to meet the requir	ement	for redundant				
	communication.						
	2) Documentation of a real event, or exercises including AAR(s).						
Notes:							

Objective 4	(Domain 3, Activity 1/Function 2)	Est.		Mid-	Year Report	Year	· End Report
	stain and participate in CAHAN and complete needed activities to	Finish	Staff Lead		Primary Barrier		Primary Barrier
	acts are maintained and up to date based on the alerting needs and	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
size of the c	ounty.		•	C	bjective	-	
		Q4	Deb Diaz				
Activities				A	Activities		
1	PH will complete a quarterly CAHAN drill with all contacts. (Note 1)	Q4	Deb Diaz				
2	PH will participate in all State CAHAN drills. (Note 1)	Q4	Deb Diaz				
3	PH will maintain and keep current all CAHAN accounts and roles. (Note 3)	Q4	Deb Diaz				
4	Primary and back-up Coordinators will complete CAHAN training as needed. (Note 9)	Q4	Deb Diaz				
5	PH will document the use of CAHAN during a drill, exercise, or real event. AAR will be developed. (Note 1)	Q3	Deb Diaz				
6							
7							
8							
9							
10							
Required					Deliver	able(s)	
	 Completed quarterly CAHAN test and/or drill to all contacts. Participation in State CAHAN drills. Updated CAHAN contact accounts. Coordinators completed CAHAN training as needed. Documentation of using CAHAN during a real incident or drill, inclu 	uding a	n AAR(s).				
Notes:							

Mono County Capability 7: Mass Care

Goal:

Local Health Departments will develop written plans that address the medical needs of sheltered populations during an emergency.

Known Gaps:

Public Health has not developed a written plan to address the medical needs of persons in general or medical shelters.

PHEP Capability 7 Mass Care

Objective 1 (Domain 5, Activity 1/Function 1)	Est.		Mid	-Year Report	Yea	[·] End Report
Complete and/or update medical shelter plan to include a process for accessing		Staff Lead		Primary Barrier		Primary Barrier
behavioral health services.	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
		ī		Objective		T
Note						
This can be a stand-alone plan or integrated into mass care plan.						
	Q1	Richard Johnson				
Activities		•		Activities		•
1 Public Health will review and revise as necessary the chapter in the	Q1	Richard Johnson				
PH DOP regarding mass care and medical shelters to include a						
process for accessing BH services. (Note 2)						
2 6/9/17: Public Health will review the Mental Health Framework	Q1	Richard Johnson				
produced at the state level, and the new Behavioral Health chapter						
pending in the revised California Public Health and Medical						
Emergency Operations Plan (EOM) for any content which should be						
incorporated into the mass care and shelter section of the Public						
Health Department Operations Plan (DOP). (Note 2)						
3 6/9/17: Public Health will meet with representative(s) from the Mono	Q2	Richard Johnson				
County Behavioral Health Department to solicit input into the section						
on mass care and shelters, and issues of accessing behavioral						
health resources when necessary. (Note 4)						
4 6/9/17: Public Health will incorporate suggested input from	Q3	Richard Johnson				
Behavioral Health into the DOP, and provide education to Social						
Services, to Public Health, and to the MHOAC Program on						
procedures for accessing behavioral health services in a shelter.						
(Notes 2, 8, and 9)						
5						
6						
7						
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10						
Required				Deliver		

Mono Coun	
Deliverable	1) Documentation of behavioral healt

Deliverable	1) Documentation of behavioral health in shelter plan.		
Notes:			

Objective 2 (Domain 5, Activity 1/Function 1)		Est.	Mid-Year Report		Year End Report		
Update med	lical shelter plans (including general population and medical shelters)	Finish	Staff Lead		Primary Barrier		Primary Barrier
to include p	re-identified and assessed sites, and an environmental health	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
assessment	tool/checklist, and health screening tool.			C	bjective		
		Q4	Richard Johnson				
Activities				A	Activities		
	PH will review the current medical shelter plan to ensure inclusion of pre-identified sites. (Note 2)	Q1	Richard Johnson				
2	PH will review the current medical shelter plan to include a facility resource request template. (Note 2)	Q2	Richard Johnson				
	PH will review the current medical shelter plan to ensure inclusion of an EH assessment tool. (Note 2)		Richard Johnson				
	PH will review the current medical shelter plan to ensure inclusion of a health screening tool. (Note 2)	Q4	Richard Johnson				
5							
6							
7							
8							
9							
10							
Required					Deliver	able(s)	
	 Documentation of pre-identified shelter sites and a facility resource Environmental Health assessment tool for sheltered populations. Health screening tool for sheltered populations. 	e reque	st template.				
Notes:							

Objective 3 (Don	nain 5, Activity 2/Function 2)	Est.		Mid-	Year Report	Year	End Report
	coordination with your HCC for the transfer of individuals		Staff Lead		Primary Barrier		Primary Barrier
	and facilities within HCC member facilities during an	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
emergency and a	fter.	1		Ĺ	bjective	[
		Q4	Richard Johnson				
Activities				A	Activities		
a pro mem	vill review the current medical shelter plan to ensure inclusion of ocess for transfer of individuals between shelters and HCC ber facilities. (Note 2)	Q1	Richard Johnson				
a dra	7: Public Health, which is also the MHOAC Program, will create ift proposal for a process for moving persons between shelters CC member facilities. (Note 2)	Q1	Richard Johnson				
	7: Public Health will provide the draft plan to the HCC bers, requesting their input. (Notes 2 and 3)	Q2	Richard Johnson				
	7: Public Health will draft a revised plan based on the above . (Note 2)	Q3	Richard Johnson				
and o the n	7: Public Health will provide the revised plan to HCC members, develop consensus and finally approval on a plan to coordinate novement of persons between shelters and/or HCC member ties. (Notes 4 and 8)	Q4	Richard Johnson				
6							
7							
8							
9							
10							
Required					Deliver	able(s)	
Deliverable 1) Do facili	ocumentation of a plan, process and/or checklist to transfer indiv ties.	iduals b	between shelters and				
Notes:					L		

Objective 4 (Domain 5, Activity 2/Function 3)	Est.		Mid	Year Report	Yea	r End Report			
Small & Medium Counties		Staff Lead		Primary Barrier		Primary Barrier			
Develop or identify a process for conducting surveillance at shelters in	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)			
coordination with environmental health include both established, "sanctioned"			(Dbjective		-			
and ad-hoc shelters to identify cases of illness, injury, behavioral health needs,									
and exposure within mass care populations.	Q4	Richard Johnson							
Activities	Activities								
	- 01	Disk and Jakasan	/	ACIIVILLES					
1 PH will review the current medical shelter plan to ensure inclusion of a surveillance process (in coordination with EH) that identifies cases	Q1	Richard Johnson							
of illness, injury, BH needs, and exposure. (Note 2)									
of liness, injury, BH needs, and exposure. (Note 2)									
2 6/9/17: Public Health will review the current shelter plan for inclusion	Q1	Richard Johnson							
of a process for conducting surveillance for the required elements.									
(Note 2)									
3 6/9/17: Public Health will create a draft revised shelter plan which	Q2	Richard Johnson							
addresses any gaps identified in the review above (Note 2)									
4 6/9/17: Public Health will meet with HCC members and other	Q3	Richard Johnson							
stakeholders to request input on the draft plan. (Notes 2 and 4)									
5 6/9/17: Public Health will present a revised shelter plan which	Q4	Richard Johnson							
includes a process for conducting surveillance for the required									
elements above, develop consensus, and seek approval. (Notes 4									
and 8)									
6									
7									
8									
10									
Required				Deliver	ahle(s)				
Deliverable 1) Documentation of a process and/or checklist for conducting shelter	curvoi	llanco		Boilton	4510(0)	1			
	Suive								
Notes:				I					

PHEP Capability 7 Mass Care

Objective 5 (Domain 5, Activity 2/Function 4)	Est.		Mid-	Year Report	Year End Report	
Large Counties		Staff Lead		Primary Barrier		Primary Barrier
Develop a plan to conduct surveillance at locations where the population may	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
congregate (with consideration to chemical, biological or radiological exposure),	-	1	C	bjective	•	
and behavioral health.						
Activities			A	Activities		
1 N/A						
2						
3						
4						
5						
6						
7						
8						
9						
10						
Required				Delive	able(s)	
Deliverable 1) Documented surveillance process, tools and/or checklists.						
Notes:						

Mono County Capability 8: Medical Countermeasure Dispensing

Goal:

Local Health Departments (LHDs) will meet annual MCM dispensing requirements.

Known Gaps:

The AAR/IP from the SWMHE 2015, an anthrax event - items have not been tracked and progress documented.

Objective 1 (Domain 4, Activity 1/Function 1) All Counties:	Est.		Mid-	Year Report	Year End Report	
S:	Finish	Staff Lead		Primary Barrier		Primary Barrier
update MCM dispensing plan(s) as needed based on gaps identified	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
perational Readiness Reviews (ORR), exercises, and real world			(bjective		
	Q3	Deb Diaz				
				Activities		
		Deb Diaz				
List the gaps identified by the ORR in local plans. (Note 2)		Deb Diaz				
Review the AAR/IP from previous exercises involving MCM. (Note 3)	Q1	Deb Diaz				
Update/rewrite the MCM Plan based on the above evaluation. (Note 2)	Q3	Deb Diaz				
		<u>.</u>		Deliver	able(s)	
1) Complete an annual review of MCM plan and update/rewrite the pl	an as r	equired.				
	Complete the ORR in the required time period. (Note 3) List the gaps identified by the ORR in local plans. (Note 2) Review the AAR/IP from previous exercises involving MCM. (Note 3) Update/rewrite the MCM Plan based on the above evaluation. (Note 2)	Finish Date Period. (Note Mispensing plan(s) as needed based on gaps identified Date perational Readiness Reviews (ORR), exercises, and real world Q3 Complete the ORR in the required time period. (Note 3) List the gaps identified by the ORR in local plans. (Note 2) Review the AAR/IP from previous exercises involving MCM. (Note 3) Update/rewrite the MCM Plan based on the above evaluation. (Note 2)	Finish Staff Lead Jupdate MCM dispensing plan(s) as needed based on gaps identified Date (first and last name) perational Readiness Reviews (ORR), exercises, and real world Q3 Deb Diaz Q3 Deb Diaz Q3 Deb Diaz Complete the ORR in the required time period. (Note 3) Deb Diaz Deb Diaz List the gaps identified by the ORR in local plans. (Note 2) Deb Diaz Deb Diaz Review the AAR/IP from previous exercises involving MCM. (Note 3) Update/rewrite the MCM Plan based on the above evaluation. (Note 2) Q3 Deb Diaz 2)	Finish Staff Lead Date Date (first and last name) Status Status Q3 Deb Diaz Q3 Complete the ORR in the required time period. (Note 3) Deb Diaz List the gaps identified by the ORR in local plans. (Note 2) Deb Diaz Review the AAR/IP from previous exercises involving MCM. (Note 3) Deb Diaz Update/rewrite the MCM Plan based on the above evaluation. (Note 2) Q3 Deb Diaz Q3 Update/rewrite the MCM Plan based on the above evaluation. (Note 2) Q4 Deb Diaz Deb Diaz Q3 Deb Diaz	In the required time period. (Note 3) Complete the ORR in the required time period. (Note 3) List the gaps identified by the ORR in local plans. (Note 2) Review the AAR/IP from previous exercises involving MCM. (Note 3) Update/rewrite the MCM Plan based on the above evaluation. (Note 2) Deb Diaz Deb Diaz	First: Finish Date Staff Lead (first and last name) Primary Barrier (Describe in Notes) Status Primary Barrier Objective Objective Objective Status Status

Objective 2	(Domain 4, Activity 2/Function 2)	Est.		Mid-	Year Report	Year	End Report
All Counties	S:	Finish	Staff Lead		Primary Barrier		Primary Barrier
Work with H	CC members to develop closed points of dispensing (POD) plans for	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
hospitals an	d health care facilities.			C	bjective		
		Q3	Deb Diaz				
		QS	Deb Diaz				
Activities				A	Activities		
	PH will meet with Mammoth Hospital Disaster Committee to develop a closed POD plan. (Note 2)	Q1	Deb Diaz				
	PH will meet with the Mono County EMS Program to develop a closed POD plan, which will include the 11 volunteer fire departments. (Note 2)	Q2	Deb Diaz				
	PH will meet with Camp Antelope Clinic of the Toiyabe Indian Health Project to develop a closed POD plan, which will include all military dependents from the US Marines Mountain Warfare Training Center. (Note 2)	Q3	Deb Diaz				
	PH will meet with Pickel Meadows Clinic of the US Marines Mountain Warfare Training Center to develop a closed POD plan. (Note 2)	Q3	Deb Diaz				
5							
6							
7							
8							
9							
10							
Required				-	Deliver	able(s)	
	 Minutes of meetings discussing closed POD planning, and/or Consolidated list of facilities with and without closed POD plans an Sample closed POD plans. 	id/or					
Notes:							

Objective 3	(Domain 4, Activity 2/Function 4)	Est.		Mid-	Year Report	Year	End Report
All Counties	5:	Finish	Staff Lead		Primary Barrier		Primary Barrier
Meet annua	MCM drill requirements. CRI counties will submit completed drills	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
to EPO via I	hbtprog@cdph.ca.gov and cc EPSU not later than April 15, 2018.			O	bjective		
	unties will submit completed drills to EPO via lhbtprog@cdph.ca.gov						
and cc EPS	J not later than June 30, 2018	Q3	Deb Diaz				
Activities				Ą	Activities		
	PH will complete the staff notification and assembly drill and submit report by 6/30/18. (Note 1)	Q3	Deb Diaz				
2	PH will complete the facility set-up drill and submit report by 6/30/18. (Note 1)	Q3	Deb Diaz				
	PH will complete the site activation drill and submit report by 6/30/18. (Note 1)	Q3	Deb Diaz				
4							
5							
6							
7							
8							
9							
10							
Required					Deliver	able(s)	
	All counties must complete and submit a copy of the results of the MC	CM drill	s listed below:				
	1) staff notification and assembly,						
	2) facility set-up, and						
	3) site activation						
Notes:							

Objective 4 (Domain 4, Activity 1/Function 3)	Est.		Mid-	Year Report	Year End Report	
All Counties:	Finish	Staff Lead		Primary Barrier		Primary Barrier
Complete and submit POD Standards Data Sheet. CRI counties will submit	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
completed data sheets to EPO via lhbtprog@cdph.ca.gov and cc EPSU not later			C	bjective		
than April 15, 2018. Non-CRI counties will submit completed data sheets to EPC)					
via lhbtprog@cdph.ca.gov and cc EPSU not later than June 30, 2018	Q3	Deb Diaz				
Activities				Activities		
	00	Deb Dies	<i>F</i>			
1 PH will complete and submit the POD Standards Data Sheet by 6/30/18. (Note 8)	Q3	Deb Diaz				
2						
3						
4						
5						
6						
7						
8						
9						
10						
Required				Deliver	able(s)	
Deliverable 1) Completed POD Standards Data Sheet.						
Notes:						

Objective 5 (Domain 4, Activity 1/Function 3)	Est.		Mid	Year Report	Year End Report		
CRI Counties:		Staff Lead		Primary Barrier		Primary Barrier	
Complete and submit a baseline self-assessment of the county medical	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)	
countermeasures program using the latest edition of the Medical			(Dbjective			
Countermeasures Operational Readiness Review (MCM ORR) tool by							
December 31, 2017. The tool will be released July 1, 2017. Submission means							
to be published at a later date.							
Activities				Activities			
1 N/A						1	
3							
4							
5							
6							
7			_				
			-				
8							
9	1						
10							
Required				Deliver	rable(s)	1	
Deliverable 1) Completed MCM ORR tool. Submission means to be published a	t a later	date.					
Notes:							

PHEP Capability 8

Objective 6 (Domain 4, Activity 1/Function 3)	Est.		Mid-	Year Report	Year End Report	
CRI Counties:	Finish	Staff Lead		Primary Barrier		Primary Barrier
Participate in biennial MCM ORRs with CDPH/CDC staff. LHD schedule to be	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
determined prior to July 1, 2017. The new MCM ORR tool will be released July			C	bjective		
1, 2017.						
Activities			ŀ	Activities		
1 N/A	1					
2						
3						
4						
5						
6						
7						
8						
9						
10						
Required			-	Deliver	able(s)	
Deliverable 1) Schedule a date for review with EPO						
2) Submission of completed MCM ORR self-assessment (10 days pr	ior to da	ate of review)				
Notes:				-		

Objective 7 (Domain 4, Activity 3/Function 3)	Est.		Mid-	Year Report	Year End Report	
All Counties:	Finish	Staff Lead		Primary Barrier		Primary Barrier
Update and submit an MCM Action Plan twice per budget period (December 31st	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
and June 30th). The action plan shall summarize progress and completed			C	bjective		
activities in response to areas of improvement identified in the county's most						
recent MCM ORR. EPO will provide a review of the MCM Action Plan via						
webinar for LHDs unfamiliar with the plan.	Q4	Deb Diaz				
Activities			A	Activities		
1 PH will submit a completed MCM Action Plan by 12/31/17. (Note 8)	Q2	Deb Diaz				
2 PH will submit a completed MCM Action Plan by 6/30/18. (Note 8)	Q4	Deb Diaz				
3						
4						
5						
6						
7						
8						
9						
10						
Required	•			Deliver	able(s)	
Deliverable 1) Completed MCM Action Plan submitted not later than December 3	1, 2017					
2) Completed MCM Action Plan submitted not later than June 30, 20	18.					
Notes:						

Objective 8 (Domain 4, Activity 1/Function 4)	Est.		Mid-	Year Report	Year	End Report
All Counties:	Finish	Staff Lead		Primary Barrier		Primary Barrier
Sustain CHEMPACK readiness activities through engagement with key partners	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
including HCC, EMS, LHD, first responders, and Emergency Department staff as			C	bjective		
appropriate. Engagement activities may include presentations, facilitated						
discussions, call down drills, etc.	Q3	Rick Johnson				
Activities			 /	Activities		
1 Public Health will review and update the CHEMPACK Plan, including the cross border plans from the California-Nevada Border Counties Coalition, as necessary, including all current contact information. OUTPUT: reviewed/revised/updated plan (Note 2)	Q1	Rick Johnson				
2 Public Health will conduct a training and brief tabletop exercise at a Mammoth Hospital Disaster Committee meeting. (Notes 1 and 9)	Q3	Rick Johnson				
3 Public Health will conduct a training and brief tabletop exercise at an EMCC meeting. (Notes 1 and 9)	Q3	Rick Johnson				
4 Public Health will conduct a training and brief tabletop exercise at an Unified Command meeting. (Notes 1 and 9)	Q3	Rick Johnson				
6						
8						
10			+			
Required				Deliver	able(s)	
Deliverable 1) Documented engagement activities and rosters of participation.					42.3(0)	
Notes:						

Objective 9	(Domain 4, Activity 3/Function 1)	Est.		Mid-	Year Report	Year End Report	
CRI Counti	es:	Finish	Staff Lead		Primary Barrier		Primary Barrier
Begin prepa	arations for and execution of MSA-wide full-scale dispensing	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
	he MSA-wide full-scale dispensing exercise is a project period			C	Dbjective		-
	t and activities documented in each budget period should						
demonstrate	e progress and in the planning and execution of the exercise.						
Complete e	xercise requirements will be available in the yet to be released 2017-						
2022 HPP-F	PHEP Supplemental Guidelines						
Activities				ŀ	Activities		
	N/A	1					
		-					
Required					Deliver	able(c)	
•	(1) Desument LISEED required meetings of a Concept and Objective	a Initia	I Dianning Conference		Deliver	able(s)	1
Deliverable	1) Document HSEEP required meetings, e.g., Concept and Objective Mid-Term Planning Conference and Final Planning Conference.	es, mua	I Planning Conference,				
	2) Exercise Documentation, e.g., Exercise Plan, Exercise Evaluation	Guide	Master Scenario Events				
	List, After Action Report (AAR)	Culac,					
	3) AAR will be submitted via means to be determined, e.g., DCARs of						
	and Assistance Center (On-TRAC)						
Notes:					I		I

Objective 1	0 (Domain 4, Activity1/Function 1)	Est.		Mid-	Year Report	Year End Report	
All Countie	S:	Finish	Staff Lead		Primary Barrier		Primary Barrier
Provide trai	ning to HCCs and their members on MCM dispensing plans.	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
Documenta	tion may be through HCC attendance at MCM ORR reviews or			(Dbjective	-	
briefings pro	ovided by the LHD.	Q3	Deb Diaz				
Activities				-	Activities		
	PH will provide a training on the MCM Dispensing Plan, including closed PODs, to the Unified Command. (Note 9)	Q3	Deb Diaz				
	PH will provide a training on the MCM Dispensing Plan, including closed PODs, to the Emergency Medical Care Committee. (Note 9)	Q3	Deb Diaz				
	PH will provide a training on the MCM Dispensing Plan, including closed PODs, to the Mammoth Hospital Disaster Committee. (Note 9)	Q2	Deb Diaz				
Required					Deliver	able(s)	
Deliverable	 Participation in MCM ORR reviews or, Agenda & attendance rosters from LHD briefings 						
Notes:							

PHEP Capability 9

Medical Materiel Management and Distribution

Mono County

Capability 9: Medical Materiel Management and Distribution

Goal:

Local Health Departments (LHDs) will meet annual MCM distribution efforts by continuing to develop, revise, and exercise MCM distribution plans.

Known Gaps:

The AAR/IP from the SWMHE 2015, an anthrax event - items have not been tracked and progress documented.

Objective 1	(Domain 4, Activity 1/Function 1)	Est.		Mid-	Year Report	Year End Report	
All Countie	S:	Finish	Staff Lead		Primary Barrier		Primary Barrier
Review and	update MCM distribution plan(s) as needed based on gaps identified	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
as part of O	perational Readiness Reviews (ORR), exercises, and real events.						
		Q3	Deb Diaz				
		QU					
Activities			•	-	Activities		
1	Complete the ORR in the required time period. (Note 3)	Q3	Deb Diaz				
2	List the gaps identified by the ORR in local plans. (Note 2)	Q3	Deb Diaz				
3	Review the AAR/IP from previous exercises involving MCM. (Note	Q1	Deb Diaz				
	3)						
4	Update/rewrite the MCM Plan based on the above evaluation. (Note	Q3	Deb Diaz				
	2)						
5							
6							
7							
8							
9							
10							
Required					Deliver	able(s)	
Deliverable	1) Reviewed and if required, updated, MCM distribution plans.						
Notes:				-			

Objective 2	(Domain 4, Activity 1/Function 2)	Est.		Mid-	Year Report	Year End Report	
All Countie	s:	Finish	Staff Lead		Primary Barrier		Primary Barrier
	I MCM distribution requirements. Complete and submit the RAND	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
drills listed b	pelow not later than June 30, 2018:			(Dbjective		
		Q3	Deb Diaz				
Activities				-	Activities		
1	PH will complete the staff notification and assembly drill and submit report by 6/30/18. (Note 1)	Q3	Deb Diaz				
2	PH will complete the facility set-up drill and submit report by 6/30/18. (Note 1)	Q3	Deb Diaz				
	PH will complete the site activation drill and submit report by 6/30/18. (Note 1)	Q3	Deb Diaz				
4	PH wilL comnplete the Pick List Assessment Collection Sheet by	Q3	Deb Diaz				
5							
6							
(_			
ð				_			
9 10							
Required					Deliver	able(s)	
Deliverable	 Pick List Assessment Collection Sheet. RSS Staff Call-Down Data Collection Sheet (If applicable). RSS Site Call-Down Data Collection Sheet (If applicable). 						
Notes:							

Objective 3 (Domain 4, Activity 1/Function)	Est.		Mid-	Year Report	Year	· End Report		
All Counties:	Finish	Staff Lead		Primary Barrier		Primary Barrier		
Complete and submit local RSS survey spreadsheet on primary and back-up	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)		
local RSS (if applicable) to CDPH not later than September 30, 2017.	Objective							
					i			
					1			
Activities			4	Activities				
1 We do not have an RSS in Mono County. (Note 8)								
2	T							
3								
4	1							
5	1							
6	1							
7								
8	1							
9	1							
10								
Required			-	Deliver	rable(s)			
Deliverable 1) Completed Local RSS survey(s).								
					1			
Notes:			-	:				

Objective 4	(Domain 4, Activity 2/Function 3)	Est.		Mid-	Year Report	Year End Report		
All Countie	S:	Finish	Staff Lead		Primary Barrier		Primary Barrier	
Provide train	ning to HCCs and their members on MCM distribution plans.	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)	
	ion may be through HCC attendance at MCM ORR reviews or			C	bjective			
briefings pro	vided by the LHD.	Q3	Deb Diaz					
Activities			Activities					
	PH will provide a training on the MCM Dispensing Plan, including closed PODs, to the Unified Command. (Note 9)	Q3	Deb Diaz					
	PH will provide a training on the MCM Dispensing Plan, including closed PODs, to the Emergency Medical Care Committee. (Note 9)	Q3	Deb Diaz					
	PH will provide a training on the MCM Dispensing Plan, including closed PODs, to the Mammoth Hospital Disaster Committee. (Note 9)	Q2	Deb Diaz					
4								
5								
6								
7								
8								
9								
10								
Required					Deliver	rable(s)		
	 Participation in MCM ORR reviews. or Agenda & attendance rosters from LHD briefings. 							
Notes:					1	l		

Mono County Capability 10: Medical Surge

Goal:

Local Health Departments will update response plans to include medical surge incident in coordination with their HPP partners including updating public messaging templates, providing situational awareness, and supporting resource requests.

Known Gaps:

We have lost alternate MHOACs due to staff turnover. We are awaiting State Patient Movement Plan, Region VI Mutaul Aid Agreement, revised EOM, and completion of local MHOAC Program Manual.

Objective 1 (Domain 5, Activity 2/Function 1)	Est.		Mid-	Year Report	Year	End Report
Test in an exercise or drill the Emergency Operations Plan and process for	Finish	Staff Lead		Primary Barrier		Primary Barrier
managing a medical surge event to include:	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
- DOC and/or EOC organization (medical and health branch, position and			C	bjective		
responsibilities, etc.).						
- Process to collect and disseminate medical surge information.						
- Resource requesting procedures.						
- Sources to capture pertinent data (immediate bed availability system, etc.)						
	Q2	Richard Johnson				
A real incident will meet this objective.						
Refer to HPP Cap 4 Medical Surge, PHEP Cap 3 Emergency Operations						
Coordination and PHEP Cap 6 Information Sharing.						
Activities			ļ	Activities		
1 PH will lead a planning meeting for the Fall, 2017 Statewide Medical	Q1	Richard Johnson				
and Health Exercise, which will include all of the required elements.						
(Note 1)						
2 PH will lead a tabletop exercise as part of the Fall, 2017 Statewide	Q2	Richard Johnson				
Medical and Health Exercise, which will include all of the required						
elements. (Note 1)						
3 PH will lead a functional exercise for the Fall, 2017 Statewide	Q2	Richard Johnson				
Medical and Health Exercise, which will include all of the required						
elements. (Note 1)						
4						
5			-		-	
			_			
6						
7						
8						
9						
10						
Required	1			Deliver	able(s)	
Deliverable 1) Inclusion of Medical Surge incident response needs in plans, polic	y and p	rocedures.				
2) Documentation demonstrating Medical Surge portion of Emergence						
exercised or tested during a real incident.						
						II

Mono County Notes:

Objective 2	(Domain 5, Activity 2/Function 2)	Est.		Mid-	Year Report	Year End Report	
Review and	update risk communication messages for medical surge incidents.	Finish	Staff Lead		Primary Barrier		Primary Barrier
		Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
Refer to HP	P Cap 4 Medical Surge and PHEP Cap 4 Public Information and	-		C	bjective		
Warning.		Q1	Richard Johnson				
Activities		-		A	Activities		
	Review existing risk communication messages/templates addressing medical surge needs in the DOP. (Note 2)	Q1	Richard Johnson				
2	Identify gaps. (Note 2)	Q1	Richard Johnson				
3	Revise/create message templates to address medical surge response needs in the public health DOP. (Note 2)	Q1	Richard Johnson				
4							
5							
6							
7							
8							
9							
10							
Required					Deliver	able(s)	
Deliverable	1) Updated public messaging templates that include information on N	Medical	Surge.				
Notes:							

Objective 3 (Domain 5, Activity 2/Function 4)	Est.		Mid-	Year Report	Year	End Report
Review and update Emergency Operations Plan for activating temporary medic	al Finish	Staff Lead		Primary Barrier		Primary Barrier
care sites (Government Authorized Alternate Care Sites and medical shelters)	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
that includes:			C	bjective		-
- Triggers for activation.						
- List of approved sites.	Q4	Deb Diaz				
- Resources needed to establish and operate.						
Activities			A	Activities		
1 For public health messaging, see Objective 2.	Q1	Richard Johnson				
2 PH will review and update the GAACS Plan to ensure inclusion of triggers for activation. (Note 2)	Q1	Deb Diaz				
3 PH will maintain the list of sites that been assessed. (Note 2)	Q4	Deb Diaz				
4 PH will review the GAACS Plan to ensure inclusion of a list of resources needed to establish and operate. (Note 2)	Q1	Deb Diaz				
5						
6						
7						
8						
9						
10						
Required				Deliver	able(s)	
Deliverable 1) Updated public messaging templates that include information on 2) Updated Government Authorized Alternate Care Site plans and the Medical Surge. 3) List of approved sites and resources needed to establish and op Alternate Care Site during Medical Surge.	riggers fo	or activation during				
Notes:						

Objective 4 (Domain 5, Activity 2/Function 2)	Est.		Mid-	Year Report	Year End Report		
Test coordination during Medical Surge across continuum of care in a facilitated	Finish	Staff Lead		Primary Barrier		Primary Barrier	
discussion between Public Health, MHOAC, and HCC A real incident will meet	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)	
this objective.	-	Objective					
	Q3	Richard Johnson					
	00						
Activities			1	Activities		•	
1 The Health Officer (who is also the MHOAC) will conduct a	Q3	Richard Johnson					
facilitated discussion on medical surge with the HCC. (Note 4)							
2							
3							
4							
5							
6							
7							
8							
9							
10							
Required				Deliver	able(s)		
Deliverable 1) Documentation of facilitated discussion on Medical Surge with HC	C.						
Notes:							

Objective 5	(Domain 5, Activity 2/Function 4)	Est.		Mid-	Year Report	Year	⁻ End Report
In coordinati	ion with the MHOAC and HCC, develop or review and test the	Finish	Staff Lead		Primary Barrier		Primary Barrier
process for	demobilization of resources in an exercise or real incident.	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
			-	C	Dbjective		
		Q2	Richard Johnson				
Activities				- A	Activities		
	The Mono County MHOAC Program Manual will be reviewed and updated to include a process for demobilization of resources. (Note 2)	Q1	Richard Johnson				
	PH will lead a planning meeting with participating partners in the Fall, 2017 Statewide Medical and Health Exercise Program, which will include demobilization of medical and health resources after a medical surge event. (Note 1)	Q1	Richard Johnson				
	PH will lead a tabletop with participating partners in the Fall, 2017 Statewide Medical and Health Exercise Program, which will include demobilization of medical and health resources after a medical surge event. (Note 1)	Q2	Richard Johnson				
4							
5							
6							
7		1					
8							
9							
10							
Required					Deliver	able(s)	
Deliverable	1) Documentation of demobilization of resources after a Medical Surg	je exer	cise or real incident.				
Notes:							

Mono County Capability 11: Non-Pharmaceutical Interventions

Goal:

Local Health Departments will work with community partners to update Infectious Disease plans identifying all non-pharmaceutical interventions (NPIs), utilizing lessons learned from Ebola, updates include quarantine, isolation, fatality support services from behavioral/mental health.

Known Gaps:

A revised Infectious Disease Response Plan is almost completed, and will include lessons learned from H1N1, Ebola, and Zika.

PHEP Capability 11 Non-Pharmaceutical Interventions

Objective 1	(Domain 4, Activity 1/Function 1)	Est.		Mid-	Year Report	Yea	r End Report
Update and	revise infectious disease response plan as needed to include	Finish	Staff Lead		Primary Barrier		Primary Barrier
authority an	d process to implement non-pharmaceutical interventions (NPIs)	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
based on cu	urrent emergent infectious diseases, utilize lessons learned during the			(Dbjective		-
introduction	of the Ebola Virus into the US and recent Zika virus.						
Refer to you	ur Pandemic influenza response plan and Ebola response plan.	Q4	Ricchard Johnson				
Activities					Activities		
1	Continue to update/revise the Infectious Disease Response Plan.	Q1	Ricchard Johnson				
	(Note 2)						
2	Review the legal authority of the Health Officer, especially the new	Q1	Ricchard Johnson				
	legal chapter in the revised EOM, and incorporate into the local plan.						
	(Note 2)						
3	Continue to include lessons learned from the Ebola response. (Note	Q1	Ricchard Johnson				
	2)						
4	Continue to include lessons currently being learned in the Zika	Q1	Ricchard Johnson				
	response. (Note 2)						
5	Continue to develop templates for public messaging regarding	Q2	Ricchard Johnson				
Ŭ	NPI's. (Note 2)	42					
6	Continue to update links to contact information for media,	Q4	Deb Diaz				
0	community partners, and Healthcare Coalition members. (Note 2)	Q4					
	community partners, and realineare coalition members. (Note 2)						
7							
1							
ð							
9							
10							
Required					Deliver	able(s)	-
Deliverable	1) Updated infectious disease plan(s) includes legal and regulatory at	uthoritie	es and policies for				
	recommending and implementing non-pharmaceutical interventions.						
Notes:							

Objective 2 (Domain 4, Activity 1/Function 2)	Est.		Mid-	Year Report	Year	End Report
Coordinate w	ith subject matter experts, HCC, response partners and community		Staff Lead		Primary Barrier		Primary Barrier
	needed non-pharmaceutical interventions based on top three	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
hazards for ye	our jurisdiction.	-		0	bjective		
Refer to your	Pandemic influenza response plan and Ebola response plan.	Q3	Richard Johnson				
Activities				A	ctivities		
e c ir	Continue to discuss and evaluate potential NPI's with subject matter experts, Healthcare Coalition members, response partners, and community partners for the top three hazards - earthquake, and infectious disease outbreak, and evacuues/refugees from an urban CBRNE incident. (Note 4)	Q3	Richard Johnson				
	Continue to prioritize possible NPI's based on likely scenarios nvolving the three top hazards. (Note 4)	Q3	Richard Johnson				
e	Continue to incorporate message templates for these NPI's and each hazard into the Infectious Disease Response Plan or the PH DOP. (Note 2)	Q3	Richard Johnson				
4							
5							
6							
7							
8							
9							
10							
Required			•		Deliver	able(s)	
· · _) Documentation of NPIs discussion in meeting minutes.					· · ·	
) List of NPIs and where to locate.						
Notes:							

PHEP Capability 11 Non-Pharmaceutical Interventions

Objective 3 (Domain 4, Activity 1/Function 3)		Est.		Mid-Year Report		Year End Report						
Develop or	update Infectious Disease plan to include mental and behavioral	Finish	Staff Lead		Primary Barrier		Primary Barrier					
health considerations during isolation, quarantine and fatalities during an		Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)					
infectious di	sease incident, include telehealth strategies with consideration of	Objective										
family members.		Q1	Richard Johnson									
Activities		Activities										
	Continue to review the Infectious Disease Response Plan regarding mental and behavioral health considerations, especially for isolation and quarantine. (Note 2)	Q1	Richard Johnson									
2	Identify gaps in the existing plan. (Note 2)	Q1	Richard Johnson									
3	Address the gaps in a revised Infectious Disease Response Plan and in the PH DOP. (Note 2)	Q1	Richard Johnson									
4	Include alternate strategies for family communication where they do not exist into each of the plans. (Note 2)	Q1	Richard Johnson									
5												
6												
7												
8												
9												
10												
Required	uired Deliverable(s)											
Deliverable	 Updated NPI, isolation and quarantine, operating procedures to inc health. List of alternative family visitation e.g. live video calling. 											
Notes:												

PHEP Capability 11 Non-Pharmaceutical Interventions

Objective 4 (Domain 4, Activity 1/Function 4)	Est.		Mid-Year Report		Year End Report				
Develop/maintain and update a process or procedure for monitoring persons	Finish	Staff Lead		Primary Barrier		Primary Barrier			
exposed to agents of public health concern, including emergent infectious	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)			
diseases and implementing recommendations (e.g., from CDC, CDPH) for the		Objective							
exposed individuals.									
Refer to your Pandemic influenza response plan and Ebola response plan.	Q1	Richard Johnson							
Activities			A	Activities					
1 Review and enhance in the Infectious Disease Response Plan a	Q1	Richard Johnson							
process for monitoring exposed persons. (Note 2)									
2 Update the plan to enhance procedures for escalating, de-	Q1	Richard Johnson							
escalating, and adapation to current requirements. (Note 2)									
3 Include feedback and lessons being learned from the 2009-10	Q1	Richard Johnson							
H1N1, Ebola, and Zika response. (Note 2)									
4 Enhance SOP for support of persons under isolation and guarantine	Q1	Richard Johnson							
orders. (Note 2)									
5									
0									
8									
9									
10									
Required				Deliver	able(s)				
Deliverable 1) Incorporate feedback from community and response partners on N	1) Incorporate feedback from community and response partners on NPIs into AAR/IP after a real								
event or exercise.	event or exercise.								
2) Plan or standard operating procedure to support quarantine and is	olation	of patients.							
Notes:						-			

Capability 12: Public Health Laboratory Testing

Goal:

Local public health laboratories will sustain laboratory and personnel regulatory requirements and certification. Will develop working relationships with local health departments without laboratories and commercial laboratories to provide essential testing. Maintain jurisdictional laboratory information management system (LIMS); sustain capability to report test results via CaIREDIE or electronically to cap (for jurisdictions not using CaIREDIE)

Known Gaps:

We do not redundancy in training in order to handle specimens.

Objective 1 (Domain 6, Activity 3/Function 1)		t.	Mid	Mid-Year Report		Year End Report		
Public Health Lab		sh Staff Lead		Primary Barrier		Primary Barrier		
		te (first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)		
jurisdiction/catchment area in the event of a public health inside. (This plan/p		Objective						
be included in the Laboratory Continuity Plan - rather than a standalone plan).		4 Richard Johnson						
Activities								
1 N/A								
2 6/9/17: Mono County has one sentinel clinical (hospital) laborato maintains the ability to contact them via redundant communication a 24/7/365 basis, which is documented in our Infectious Disease Plan (Note 8)	on channels on	1 Richard Johnson						
3 6/9/17: Mono County Health Department can demonstrate real e and communication between the Health Department, the CD Cou the Health Officer, on almost a daily basis throughout the year for activities, which include face-to-face, electronic means (CaIRED mail, etc., such as Zika testing, bloodborne post exposure testing reportable diseases, etc. (Note 4)	ntroller, and/or or routine IE), FAX, e-	2 Richard Johnson						
4 6/9/17: Mono County Health Department can provide said contac when requested to the CDPH, and can transmit any messages fr the Mammoth Hospital Laboratory instantaneously as required. (rom CDPH to	Richard Johnson						
5 6/9/17: Mono County is served by the San Joaquin Public Health and maintains 24/7 contact information with them. Mono County the ability to contact CDPH and its laboratories through the Duty Program on a 24/7/365 basis. (Note 8)	also maintains	Richard Johnson						
6								
8								
9								
10								
Required				Deliverable(s)				
 Deliverable 1) Maintain and submit to CDPH, current contact information for laboratory networks including LRN-B laboratories, public health I within the jurisdiction/catchment area for inclusion in A STATWII guidance, when available. 2) Submit laboratory information and data about PHL to CDPH w CDC. 								

PHEP Capability 12 Public Health Laboratory Testing

		Est.		Mid-Year Report		Year End Report		
			Staff Lead		Primary Barrier		Primary Barrier	
Develop or	update the laboratory specific continuity plan that integrates into the overall LHD	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)	
continuity of	f government continuity (COG) plan.			C	bjective	-	-	
Activities		Activities						
1	N/A							
2								
3								
4								
5								
6								
7								
8								
9								
10								
Required								
Deliverable	1) Provide Lab Continuity plan to CDPH.							
Notes:								

Objective 3 (Domain 6, Activity 3/Function 1)	Est.		Mid-Year Report		Year End Report		
Public Health Lab		Staff Lead		Primary Barrier		Primary Barrier	
Implement corrective actions for at least one gap identified in FY15/16. Establish working	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)	
relationship with other laboratories to develop informal and formal agreements to conduct	Objective						
essential testing should the PHL become unable to function. If no formal/written							
agreements exist (e.g., MOU), explain why this is not feasible. The plan should contain							
contact information with other labs to notify other laboratories to assume testing should the							
Local PHL be non-functional.							
Activities			ļ	Activities			
1 N/A							
2							
3							
4							
5							
6							
7							
8							
9							
10							
Required Deliverable(s)							
Deliverable 1) Provide documentation of Corrective Actions for one gap identified in FY15/16	i.						
2) Status report on Continuity plan developed or updated during FY16/17.							
Notes:							

Objective 4	(Domain 6, Activity 3/Function 1)	Est.		Mid-	Year Report	Year	End Report
Public Heal			Staff Lead	_	Primary Barrier	_	Primary Barrier
	uity plan exists continue to develop the plan based on the plan/timeline created	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
in FY15/16.				0	Dbjective		
Activities		-		ŀ	Activities	-	
1	N/A						
2							
3							
4							
5							
6							
7							
8							
9							
10							
Required					Delive	rable(s)	
Deliverable	1) Public health lab continuity plan.						
Notes:							

Objective 5	(Domain 6, Activity 3/Function 2)	Est.		Mid-	Year Report	Year	End Report
All Countie	S:		Staff Lead		Primary Barrier		Primary Barrier
Maintain sh	pping and packaging certification of designated personnel. Document training on	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
a shipping a	nd packaging that meets national and state requirements, including forensic			(Dbjective		-
chain of cus	tody procedures.	01					
		Q1	Richard Johnson				
Activities				I	Activities		•
1	The Health Officer will maintain current his certificate in the training for the	Q1	Richard Johnson				
	responsibilities of shippers/cargo agents for transport of Dangerous Goods,						
	Category A and B Infectious Substances, including forensic chain of custody						
	procedures. (Note 9)						
2							
3							
4							
5							
6							
7							
8							
9							
10							
Required					Deliver	rable(s)	
Deliverable	1) Update staff roster for those certified and those that received training during the	ne grant	t year 2016/17				
Notes:							

Objective 6	i (Domain 6, Activity 3/Function 2)	Est.		Mid-	Year Report	Year	End Report
All Countie	S:		Staff Lead		Primary Barrier		Primary Barrier
Conduct an	d document laboratory staff training on biosafety and biosecurity	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
practices/pr	ocedures pertaining to sample management and safety.				Dbjective	-	
Activities				A	Activities		
1	N/A - only for counties with a PHL according to Q and A document from 16/17 -						
	We assume it is the ame this year.						
2							
3							
4							
5							
6							
7							
8							
9							
10							
Required					Deliver	able(s)	
Deliverable	1) Document laboratory staff training on biosafety and biosecurity for samples.				Denvel	able(3)	
Denverable							
Notes:							l
Notes:							

Objective 7	(Domain 6, Activity 3/Function 2)	Est.		Mid-	Year Report	Year	End Report
All Countie	s:		Staff Lead		Primary Barrier		Primary Barrier
	intain protocols/procedures stating that all specimens for testing are submitted	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
	_RN reference laboratory, not to other entities unless so directed by the LRN	a	1	(Dbjective		1
reference la	boratory.	Q1	Richard Johnson				
Activities				l	Activities		
1	Public Health will review the Infectious Disease Response Plan to verify/modify/add protocol/procedures stating that all specimens are submitted through the LRN reference laboratory, unless directed otherwise by the laboratory. (Note 2)	Q1	Richard Johnson				
2							
3							
4							
5							
6							
7							
8							
9							
10							
Required					Deliver	rable(s)	
Deliverable	 Submit protocols/procedures that demonstrate all specimens for testing are su reference laboratory. 	ubmitte	d through the LRN				
Notes:							

Objective 8 (Domain 6, Activity 3/Function 2)	Est.		Mid	Year Report	Yea	r End Report
All Counties:		Staff Lead		Primary Barrier		Primary Barrier
Maintain/review and annually update written plans, procedures, protocols for sample	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
collection, triage, packaging, shipping, transport, handling, storage, and disposal, including		•	(Dbjective		
24/7 contact information and submission criteria.	Q1	Richard Johnson				
Activities		•	-	Activities		
1 The Health Officer will continue to enhance written plan/procedure/protocols for sample collection, triage, packaging, shipping, transport, handling, storage, disposal, and prioritization, including 24/7 contact information and submission criteria. (Note 2)	Q1	Richard Johnson				
2 3						
4 5						
67						
8						
10 Beguired				Deliver	able (a)	
Required		· · · · · · · · · · · · · · · · · · ·	1	Delivera	able(S)	1
Deliverable 1) Submit plans/procedures/protocols for sample collection, triage, packing, ship storage, and disposal, including 24/7 contact information and submission criteria	oing, tra	ansport, nandling,				
Notes:						

Objective §	O (Domain 6, Activity 3/Function 2)	Est.		Mid-	Year Report	Year	End Report
Counties v	vith a LRN-B Lab		Staff Lead		Primary Barrier		Primary Barrier
Maintain ap	propriate regulatory requirements and valid US Dept. of Agriculture/Animal and	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
Plant Healt	n Inspection Service/Veterinary Services Shipping Permit.			C	Dbjective		
Activities				A	Activities		
1	N/A						
2							
3							
4							
5							
6							
7							
8							
g							
10							
Required					Delive	rable(s)	
Deliverable	1) Provide proof of compliance with appropriate regulations.						
Notes:							

Objective 1	bjective 10 (Domain 6, Activity 3/Function 3)				Mid-Year Report		Year End Report	
Counties w	vith an LRN-B Sentinel and Reference PL:		Staff Lead		Primary Barrier		Primary Barrier	
Document t	raining, competencies, and proficiency testing for appropriate LRN-B testing	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)	
methods.				(Objective			
Activities			•	-	Activities	-	•	
1	N/A							
2								
3								
4								
5								
6								
7								
8								
9								
10								
Required					Delive	rable(s)		
Deliverable	1) Documentation of LRN-B proficiency testing.							
Notes:								

Objective 11 (Domain 6, Activity 3/Function 3)	Est.		Mid-	Year Report	Year End Report	
Public Health Lab		Staff Lead		Primary Barrier		Primary Barrier
Maintain/Update the plan to sustain capability to perform laboratory testing for routine and	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
surge capacity, including personnel resources, laboratory and staff training and			0	Dbjective		-
competencies, and equipment/technology resources. (This may be incorporated into the						
Laboratory Continuity plan, and not as a standalone plan).						
Activities			ļ	Activities		•
1 N/A						
2						
3						
4						
5						
6						
7						
8						
9						
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Required				Deliver	able(s)	
Deliverable 1) Surge plan contains all elements in the objective at a minimum.				2011/01		
Notes:						

Objective 12 (Domain 6, Activity 3/Function 3)	Est.		Mid-	Year Report	Year End Report		
Public Health Lab		Staff Lead		Primary Barrier		Primary Barrier	
Develop/maintain/update annually written plans to optimize and/or argument personnel for	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)	
short-term (e.g., days) and long-term (e.g., weeks to months) laboratory testing/surge			(Dbjective			
response efforts. (This may be incorporated into the Laboratory Continuity plan, and not as a							
standalone plan.)							
Activities			I	Activities			
1 N/A							
2							
3							
4							
5							
6							
7							
8							
9							
10							
Required	<u>I</u>		"	Deliver	able(s)		
Deliverable 1) Submit plan to optimize and/or augment personnel for short-term and long-te	m labo	ratory testing/surge	1			1	
response efforts to CDPH.							
Notes:				<u> </u>		•	

Objective 1	3 (Domain, Activity 3/Function 3)	Est.		Mid-	Year Report	Year	End Report
Public Hea	Ith Lab		Staff Lead		Primary Barrier		Primary Barrier
Maintain a	written plan/protocol for and execution of preventative maintenance contracts,	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
service agr	eements, and other inspections/certification for laboratory equipment and			0	Dbjective		-
instruments							
Activities				ļ	Activities		
1	N/A						
2							
3							
4							
5							
6							
7							
8							
9							
10							
Required					Delive	rable(s)	
Deliverable	1) Submit preventative maintenance plan to CDPH.						
Notes:							

Objective 14 (Domain 6, Activity 3/Function 4)	Est.		Mid-	Year Report	Year	End Report
Public Health Lab		Staff Lead		Primary Barrier		Primary Barrier
Develop/maintain/update annually protocols to share data and coordinate activities with	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
applicable partner agencies and groups (e.g., first responders, epidemiologists, poison	b		C	bjective		
control centers, law enforcement.)						
Activities		<u>.</u>	A	Activities		
1 N/A						
2						
3						
4						
5						
6						
7						
8						
9						
10						
Required				Delive	rable(s)	
Deliverable 1) Test ability to share data and coordinate activities during real incident or exercised	cise.					
Notes:						

Objective 15 (Domain 6, Activity 3/Function 5)	Est.		Mid-	Year Report	Year End Rep	
Public Health Lab		Staff Lead		Primary Barrier		Primary Barrier
Build/maintain a jurisdictional Laboratory Information Management System (LIMS) with the	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
ability to automatically send 17CCR2505 reportable California Reportable Disease			(Dbjective		
Information Exchange (CalREDIE) ELR-compliant HL7 v 2.5.1 message data to CDPH, the						
CalREDIE, Electronic Laboratory Reporting (ELR), and the CDC (as applicable). The PHL						
will collaborate with CDPH/CalREDIE ELR to configure LIMS and ancillary information						
systems to enable SOAP transmission of electronic laboratory reporting to CDPH.						
Activities			I	Activities		
1 N/A						
2						
3						
4						
5						
6						1
7						
8						
10						
Required	1	l		Deliver	ablo(c)	1
Deliverable 1) Public health lab jurisdictional Laboratory Information Management System (L	IMC) th	at mosts the objective's	1	Deliver	anie(s)	
criteria.		at meets the objective s				
Notes:						
10(5).						

Objective 1	6 (Domain 6, Activity 3/Function 5)	Est.		Mid-	Year Report	Year	End Report			
Public Heal	Ith Lab	Finish	Staff Lead		Primary Barrier		Primary Barrier			
Continue to	develop or update written processes for reporting laboratory results in	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)			
	with security, data exchange, and notification requirements/guidelines.	Objective								
·	<i>,,</i> , , , , , , , , , , , , , , , , , ,									
Activities				ļ	Activities					
1	N/A									
2										
3										
4										
5										
6										
7										
8										
9										
10										
Required					Delive	rable(s)				
Deliverable	1) Submit written process for reporting laboratory results to CDPH.									
Notes:										

Capability 13: Public Health Surveillance and Epidemiological Investigation

Goal:

Sustain and enhance public health surveillance and epidemiological investigation capacity; to create, maintain, support, and strengthen routine surveillance and detection systems and epidemiological processes in response to incidents of public health significance.

Known Gaps:

We have little surge capacity, and are lacking in access to some sources of data.

PHEP Capability 13

Public Health Surveillance and Epidemiological Investigation

Mono County

Objective 1 (Domain 6, Activity 1/Function 1)	Est.		Mid-	Year Report	Year End Report		
All Counties:		Staff Lead		Primary Barrier		Primary Barrier	
Develop, maintain, or enhance local epidemiological processes of gathering and	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)	
analyzing data from multiple and diverse sources, including:	ii .	T	0	bjective		T	
- Reportable condition surveillance							
- Syndromic surveillance systems (e.g., BioSense)							
- Surveillance of major causes of mortality (use of Vital Statistics)	Q4	Richard Johnson					
- Surveillance of major causes of morbidity							
- Novel and/or emerging public health threats							
Activities			-	Activities			
1 Public Health will maintain the local process of gathering and analyzing data regarding school absenteeism. (Note 3)	Q4	Richard Johnson					
2 Public Health will maintain the local process of gathering and analyzing data regarding EMS transports for influenza-like illness (ILI) and other syndromes. (Note 3)	Q4	Richard Johnson					
3 Public Health will maintain the local process of gathering and analyzing data regarding Emergency Department (ED) discharge diagnoses. (Note 3)	Q4	Richard Johnson					
4 Public Health will maintain the local process of gathering and analyzing data regarding admission diagnoses to Mammoth Hospital. (Note 3)	Q4	Richard Johnson					
5 Public Health will maintain the local process of gathering and analyzing ILI data from Sierra Park Family Medicine and Pediatrics in the CDC Sentinel Provider Program and report said data electronically to the CDC. (Note 3)	Q4	Richard Johnson					
6 Public Health will seek to develop the ability to gather and analyze data from Death Certificates. (Note 4)	Q4	Richard Johnson					
7							
8							
9							
10			1				
Required	l			Deliver	able(s)		
Deliverable 1) Written plans include processes and protocols for gathering and a	nalvzino	o data.			. (- /		
		gaada					

FY 17-18 PHEP Work Plan

Notes:

PHEP Capability 13

Public Health Surveillance and Epidemiological Investigation

Mono County

Objective 2 (Domain 6, Activity 1/Function 2)			Mid	·Year Report	Year End Report		
All Counties:		Staff Lead		Primary Barrier		Primary Barrier	
Continue developing epidemiological processes to gather and analyze data from	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)	
other sources such as:			(Dbjective		F	
- Environmental conditions							
- Hospital discharge statistics							
- Information from mental/behavioral health agencies							
 Population based surveys Disease registries 	Q4	Richard Johnsob					
- Immunization registries							
- Active case findings							
Activities				Activities			
1 Public Health will continue to seek to develop the ability to gather and analyze data from Mental/Behavioral Health. (Note 4)	Q4	Richard Johnsob					
2 Public Health will document processes to gather, analyze, and operationalize data from environmental health. (Note 2)	Q1	Richard Johnsob					
3 Public Health will document processes to gather, analyze, and operationalize data from hospital discharge statistics. (Note 2)	Q1	Richard Johnsob					
4 Public Health will document processes to gather, analyze, and operationalize data from CAIR - our Immunization Registry. (Note 2)	Q1	Richard Johnsob					
5 Public Health will document processes to gather, analyze, and operationalize data from population based surveys that exist. (Note 2)	Q3	Richard Johnsob					
6 Public Health will document processes to gather, analyze, and operationalize data from CaIREDIE. (Note 2)	Q1	Richard Johnsob					
78			_				
9						1	
10							
Required				Deliver	able(s)	•	
Deliverable 1) Written plans include processes and protocols to gather, analyze,	and op	erationalize the data					
from the listed data sources to enhance public health preparedness.							

FY 17-18 PHEP Work Plan

Notes:

PHEP Capability 13

FY 17-18 PHEP Work Plan Public Health Surveillance and Epidemiological Investigation

Objective 3	(Domain 6, Activity 1/Function 3)	Est.		Mid-	Year Report	Year End Report				
All Counties	S:	Finish	Staff Lead		Primary Barrier		Primary Barrier			
Maintain and	d ensure 24/7 local health department access to collect, review, and	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)			
respond to r	eports of potential health threats.			C	bjective					
the issue.	provide any barriers or challenges, and how the LHD will address	Q4	Deb Diaz							
Activities		Activities								
	PH will maintain as current its 24/7 contact and call-down list for key personnel via redundant communication modes, and provide it to Mono County Sheriff's Dispatch, with revisions as necessary. This includes the Health Officer, the Health Director, primary and alternate MHOAC's, and the Emergency Preparedness Coordinator. (Note 3)	Q4	Deb Diaz							
10										
Required					Deliver	able(s)				
	1) Written plans include procedures to ensure 24/7 health departmen phone line, contact person).	t acces	s (e.g., designated							
Notes:										

PHEP Capability 13

FY 17-18 PHEP Work Plan Public Health Surveillance and Epidemiological Investigation

Objective 4 (Domain 6, Activity 1/Function 4)	Est.		Mid	Year Report	Year End Report		
All Counties:		Staff Lead		Primary Barrier		Primary Barrier	
The LHD agrees to transmit all California State Reportable Diseases and	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)	
Conditions data electronically to CDPH either through full use of CalREDIE or in			(Dbjective		-	
the format specified by CDPH.							
If no, please provide any barriers or challenges, and how the LHD will address	Q4	Richard Johnson					
the issue.	Q,						
Activities	<u> </u>		I/	Activities			
1 The CD Controller will maintain competency in CalREDIE processes	Q4	Richard Johnson	, T	(ouvido)		T	
and procedures, and we agree to electronically transmit all California		Richard Johnson					
State Reportable Diseases and Conditions, and use any other							
format specified by CDPH. (Note 2 and 9)							
2 Written plans will include a requirement to conform with CalREDIE	Q1	Richard Johnson					
proedures and processes. (Note 2)	~.						
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9 (2							
10							
Required				Deliver	able(s)		
Deliverable 1) Written plans include procedures and processes for reporting dise	ases a	nd conditions by using					
CalREDIE or other reporting format specified by CDPH.							
Notes:							

Objective 5 (Domain 6, Activity 1/Function 1)	Est.		Mid-	Year Report	Year End Report	
All Counties:	Finish	Staff Lead		Primary Barrier		Primary Barrier
Maintain public health staff to conduct data collection, analysis, surveillance, and	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
epidemiological investigations, who are competent and trained at a minimum, in	-		C	bjective		-
Tier 1 competencies and Skills for Applied Epidemiologists		Deb Diaz				
Activities			A	Activities		
1 PH will maintain a list of staff trained at a Tier 1 level, including documentation of all trainings attended. (Note 9)	Q4	Deb Diaz				
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Required	•			Deliver	able(s)	
	1) Written plans and policies include a list of all public health staff's level of competency and if applicable, all trainings attended that ensure the level of competency is being maintained.					
Notes:						

Objective 6	(Domain 6, Activity 1/Function2)	Est.		Mid-	Year Report	Year End Report		
All Countie	s:	Finish	Staff Lead		Primary Barrier		Primary Barrier	
Maintain sta	ffing capacity to manage the routine epidemiological investigations in	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)	
the jurisdicti	on. (This includes contracting for epidemiological services.)	-	Objective					
		Q4	Deb Diaz					
Activities		-		A	ctivities	-		
	PH will maintain list of staff trained in routine epi investigations, including all trainings attended. (Note 2)	Q4	Deb Diaz					
	PH will maintain a current list of potentially available resources to call on when assistance is needed. (Note 2)	Q1	Richard Johnson					
3								
4								
5								
6								
7								
8								
9								
10								
Required					Deliver	able(s)		
	 Written plans and policies include competency level of public healt the competency is maintained (e.g., securing assistance from acader staff). 							
Notes:								

Objective 7 (Domain 6, Activity 1/Function 2)		Est.		Mid-	Year Report	Year End Report	
All Counties:		Finish	Staff Lead		Primary Barrier		Primary Barrier
Maintain current and update operational plans,	policies, and procedures for the	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
tracking and monitoring travelers and/or others	during an highly pathogenic			C			
infectious disease outbreak or event (e.g., Ebol	a)	Q1	Richard Johnsob				
Activities				ŀ	Activities		
1 PH will ensure that the Infectious D current and up-to-date plans, polici and monitoring persons during an i event as required. (Note 2)	ies, and procedures fore tracking	Q1	Richard Johnsob				
2							
3							
4							
5							
6							
7							
8							
9							
10							
Required					Deliver	able(s)	
Deliverable 1) Written plans, policies, and proc during a highly pathogenic infection reviewed/updated annually.	(1) Written plans, policies, and procedure for the tracking and monitoring of travelers and/or othersduring a highly pathogenic infectious disease outbreak or event are maintained and						
Notes:			•				

Capability 13 Mono 17-18 PHEP Work Plan Approved 6.29.17.xlsx

FY 17-18 PHEP Work Plan

Mono County

Objective 8	(Domain 6, Activity 1/Function 1 & 2)	Est.		Mid-	Year Report	Year End Report			
All Countie	S:	Finish	Staff Lead		Primary Barrier		Primary Barrier		
Maintain or	develop plans to increase and train staff to manage	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)		
surge/emerg	gency epidemiological investigations in the jurisdiction.	-		Objective					
		Q4	Deb Diaz						
Activities		Activities							
	The Health Officer will utilize monthly staff meetings and PHN meetings to continue to develop skills for clinical and non-clinical staff to support epi investigations in response to any incident/threat. (Note 9)	Q4	Richard Johnson						
	PH will provide documentation of any other trainings received or provided (e.g., on-line, teleconference, in person, etc.) (Note 9)	Q4	Deb Diaz						
3									
4									
5									
6									
(
8									
9									
10									
Required					Deliver	able(s)			
	 Written plans and processes include mechanisms for continual dev and non-epi staff (e.g., just-in-time training) to support surge epidemi- response to natural or intentional threats or incidents (e.g., CBRNE the state of the state of the s								
Notes:									

PHEP Capability 13

Public Health Surveillance and Epidemiological Investigation

PHEP Capability 13

Objective 9 (Domain 6, Activity 1/ Function 2)	Est.		Mid-	Year Report	Year End Report	
Counties with Epidemiologic Services:	Finish	Staff Lead		Primary Barrier		Primary Barrier
Continue to develop/maintain written plans to optimize and/or augment personne	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
for short-term (e.g., days) and long-term (e.g., weeks to months) epidemiologic			Ő	bjective		-
investigations/surge response efforts.	Q3	Richard Johnson				
Activities			A	octivities		
1 The Health Officer as the MHOAC, will utilize policies and procedures in the Mono County MHOAC Program Manual for situation reporting and resource requesting for epi resources needed either/both short and/or long-term. (Note 3)	Q1	Richard Johnson				
2 The Health Officer will continue to work with Region VI partners on the development and approval of a Region VI Medical and Health Mutual Aid Plan, which would include epi resources. (Note 2 and 8)	Q2	Richard Johnson				
3						
4						
5						
6						
7						
8						
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10						
Required				Deliver	able(s)	
Deliverable 1) Written plans and processes include surge strategies to conduct la investigation response efforts.	ong-terr	n epidemiological				
Notes:						

PHEP Capability 13

FY 17-18 PHEP Work Plan Public Health Surveillance and Epidemiological Investigation

Objective 1	0 (Domain 6, Activity 1/Function 3)	Est.		Mid-Year Report		Year End Report			
All Countie	S:	Finish	Staff Lead		Primary Barrier		Primary Barrier		
Review and	update written plans for recommending and initiating, if indicated,	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)		
containment	t and mitigation actions for significant public health incidents.			C	bjective				
		Q3	Richard Johnson						
Activities		Activities							
	Public Health will update the Infectious Disease Response Plan with lessons learned from Ebola and Zika response. (Note 2)	Q1	Richard Johnson						
	Public Health will ensure that potentially recommended and initiated containment and mitigation actions for the top three hazards and other infectious diseases are included in the plan. (Note 2)	Q1	Richard Johnson						
	Public Health will provide training on the plan, and especially implementation of containment and mitigation strategies, to all PH staff. (Note 9)	Q3	Richard Johnson						
4									
5									
6									
7									
8									
9									
10									
Required					Deliver	able(s)			
-	1) Written plans include protocols for containment and mitigation acti	ons for	public health incidents						
	(e.g., novel virus).								
Notes:					1				

FY 17-18 PHEP Work Plan

Objective 11 (D	Domain 6, Activity 1/Function 3)	Est.	Mid-Year Report		Year End Report		
All Counties:		Finish	Staff Lead		Primary Barrier		Primary Barrier
Develop or main	ntain procedures for monitoring mitigation actions and document	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
outcomes, using	tools such as data reports or statistical summaries	-		C	Dbjective		
		Q1	Richard Johnson				
Activities		2		ļ	Activities		
will proc	will develop procedures for monitoring mitigation actions, and determine what tools to use to document outcomes. These cedures will be included in the Infectious Disease Response n. (Note 2)	Q1	Richard Johnson				
2							
3							
5							
6							
7							
8							
9							
10							
Required					Deliver	able(s)	
	Written plans include procedures for monitoring actual performanc comes using tools such as data reports (e.g., MMWR summaries)						
Notes:							

Objective 12 (Domain 6, Activity 1/Function 3)			Mid-Year Report		Year End Report			
All Counties:	Finish	Staff Lead		Primary Barrier		Primary Barrier		
Maintain a quality improvement process to review unusual ou	utbreak Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)		
investigations and update plans/procedures as needed.		Objective						
	Q1	Richard Johnson						
Activities			ŀ	Activities				
1 PH DOP will include written policies procedures infectious disease events outside of day-to-day of brief or full HSEEP compliant AAR/IP, according event. (Note 2) 2	operations, including	Richard Johnson						
3								
5								
6								
7								
8								
9								
10								
Required				Deliver	able(s)			
Deliverable 1) Written policy and procedures include conduct improvement plans that are shared with local put								
Notes:								

Objective 13 (Domain 6, Activity 1/Function 3)		Est.		Mid-Year Report		Year End Report			
All Counties:		Finish	Staff Lead		Primary Barrier		Primary Barrier		
Participate in	statewide teleconference calls for current emerging public health	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)		
issues for pla	nning and jurisdictional response activities (e.g., Zika).	Objective							
		Q4	Richard Johnson						
Activities					Activities				
c	The Health Officer, and other designated staff as appropriate for the call and event, will maintain documentation of participation in statewide teleconference calls as they occur. (Note 4)	Q4	Richard Johnson						
r	The Health Officer or another designated staff person will be esponsible for disseminating information and educating other PH staff to provide situational awareness. (note 4)	Q4	Richard Johnson						
3									
4									
5									
6									
7									
8									
9									
10									
Required					Deliver	able(s)			
Deliverable 1 e) Written plans and processes for public health staff to be informed a emerging public health issues (e.g., Zika).	and pre	pared for current						
Notes:									

Capability 14: Responder Safety and Health

Goal:

Local Health Departments are to protect public health agency staff responding to an incident and the ability to support health and safety needs of hospital an medical facility personnel, if requested.

Known Gaps:

We have training gaps in EMS, PH, EH, social services, and behavioral health due to staff turnover.

PHEP Capability 14 Responder Safety and Health

Objective 1	(Domain 4, Activity 4/Function 1)	Est.	Mid-Year Report		Year End Report		
Include envi	ronmental and behavioral health components from the jurisdiction	Finish	Staff Lead		Primary Barrier		Primary Barrier
risk assessr	nent in responder health and safety.	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
				(Dbjective		
		0 4					
		Q1	Richard Johnson				
Activities					Activities		
	PH will review and enhance as necessary the Mono County Exposure Control Plan to include the top three hazards and EH and BH components of responder safety and health. (Note 2 and 8)	Q1	Richard Johnson				
2							
3							
4							
5							
6							
7							
8							
9							
10							
Required					Deliver	rable(s)	
Deliverable	1) Personnel protective equipment (PPE) plan that provides for the here responders for the top three identified jurisdictional hazards.	ealth ar	nd safety of PH staff and				
Notes:							

PHEP Capability 14 Responder Safety and Health

Objective 2 (Domain 5, Activity 4/Function 2)		Est.		Mid-Year Report		Year End Report	
	aintain and/or sustain current level of public health personnel	Finish	Staff Lead		Primary Barrier		Primary Barrier
	quipment (PPE) cache and update PPE plans and inventory list to	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
include man	ufacturer/dispenser information.		1	C	bjective	1	
		Q1	Deb Diaz				
		QI	Deb Diaz				
Activities				ŀ	Activities		
1	PH will maintain its current level of PPE for public health personnel. (Note 3)	Q1	Deb Diaz				
	PH will add a vendor list with manufacturer/dispenser information to the Exposure Control Plan. (Note 2)	Q1	Deb Diaz				
3							
4							
5							
6							
7							
8							
9							
10							
Required					Deliver	able(s)	
Deliverable	1) PPE plan that includes sustainment and vendor list.						
Notes:							

PHEP Capability 14 Responder Safety and Health

Objective 3 (Domain 5, Activity 4/Function 3)	Est.		Mid	Year Report	Year	End Report
Develop a process for tracking medical and behavioral health impact on public	Finish	Staff Lead		Primary Barrier		Primary Barrier
health responders during an emergency.	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
			(Dbjective		
	Q1	Richard Johnson				
Activities				Activities		
1 PH will enhance the Exposure Control Plan by incorporating policies	Q1	Richard Johnson				
and procedures from the Emergency Responder Monitoring and						
Surveillance Program (ERHMS) Tool , which includes both medical						
and BH impacts on first responders. (Note 2)						
2						
3						
4						
5						
6						
7						
8						
9						
10						
Required				Deliver	rable(s)	
Deliverable 1) Response plan includes surveillance of medical and behavioral he	alth imp	pact on first responders				
during emergencies.		·				
Notes:				I		

Mono County Capability 15: Volunteer Management

Goal:

Local Health Departments will develop a process or MOU with local resources/organizations to provide support during incidents.

Known Gaps:

We have few licensed healthcare workers living in our jurisdiction who are not already employed. We do not have the ability access the registration on healthcare workers who are visiting from other areas.

Objective 1	(Domain 5, Activity 3/Function 1)	Est.	Mid-Year Report		Year End Report		
	recruit, update and register medical and health volunteers into the		Staff Lead		Primary Barrier		Primary Barrier
DHV Syster	n.	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
				C	bjective		
		Q4	Deb Diaz				
Activities		-		A	Activities		-
1	PH will continue to recurit and register medical and health	Q1	Deb Diaz				
	volunteers into the DHV system, and document all outreach efforts.						
	(Note 3) 6/9/17: Outreach will include meetings such as Unified						
	Command, Emergency Medical Care Committee, Mammoth						
	Hospital Disaster Committee, and CERT. DHV material will also be						
	disseminated through leadership in such organizations as Mono County EMS Department, Mammoth Hospital, Sierra Park Clinics,						
	Toiyabe Indian Health Project, and Pioneer Home Health/Hospice.						
2	PH will maintain a current contact list of DHV volunteers. (Note 3)	Q4	Deb Diaz				
3							
4							
5							
6							
7							
8							
9							
10							
Required				-	Deliver	able(s)	
Deliverable	1) Updated DHV medical and health volunteers contact list.						
Notes:							

Objective 2 (Domain 5, Activity 3/Function 2)			Mid-	Mid-Year Report		Year End Report	
Test process used to notify and coordinate internal and external "volunteers"	Finish	Staff Lead		Primary Barrier		Primary Barrier	
within the jurisdiction and determine their availability to respond during an	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)	
incident; may use DHV system.			C	bjective			
Refer to Cap 6 Information Sharing.	Q3	Deb Diaz					
Activities			<u> </u>				
		- · -·	ŀ	Activities	F		
1 PH will conduct a notification drill of volunteer availability to respond during an incident using the DHV system. (Note 1)	Q3	Deb Diaz					
2 6/9/17: Mono County Health Department, specifically the DHV	Q3	Deb Diaz					
Coordinator, will conduct the drill, with support of other public health							
staff only. It is anticipated that volunteers who are registered into the							
DHV system will have been notified of an up-coming drill in							
advance, most likely by letter or e-mail. We do not anticipate any							
other meetings or discussion about the process leading up to the							
drill other than perhaps with the Health Officer, MHOAC, and/or							
Public Health Director. (Note 1)							
3							
4							
5							
6							
7							
8							
9							
10							
Required				Deliver	able(s)		
Deliverable 1) Documentation of "volunteer" notification in an exercise or real eve	ent.						
Notes:							

Objective 3 (Domain 5, Activity 3/Function 3)	Est.		Mid-	Year Report	Year	· End Report
Document a process to address logistical needs of volunteer personnel during an		Staff Lead		Primary Barrier		Primary Barrier
incident (e.g. food, and lodging).	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
	r		C	bjective		
	Q3	Deb Diaz				
Activities	<u>I</u>		ŀ	Activities		
1 Ph will develop a plan to meet the logistical needs of volunteer personnel during an incident. (Note 2)	Q3	Deb Diaz				
2 6/9/17: Public Health will review the Public Health Department Operations Plan (DOP) to ensure inclusion of measures and ICS compatible structure in order to address the logistical needs of volunteers called in support of medical and/or health issues in an event. (Note 2)	Q1	Richard Johnso n				
3 6/9/17: Public Health, through an enhanced DOP, will address any identified gaps in the DOP regarding a process for meeting the logistical needs of volunteers. (Note 2)	Q1	Richard Johnso n				
4 6/9/17: Public Health will provide training to public health staff that would be assigned to the Logistics Section in a Public Health Department Operations Center (DOC) as to their roles and responsibilities in providing for the logistical needs of volunteers in support of public health operations. (Note 9)	Q3	Deb Diaz				
5						
8						
9						
10						
Required				Deliver	able(s)	
Deliverable 1) Documentation of a plan, process or checklist for meeting the logis	stical ne	eeds of volunteers.				
Notes:						

Objective 4 (Domain 5, Activity 3/Function 3)	Est.		Mid-	Year Report	Year End Report	
Develop a process for managing spontaneous volunteers.	Finish	Staff Lead		Primary Barrier		Primary Barrier
	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
		T		Dbjective		
	Q4	Deb Diaz				
Activities				A = 1: -:1: = =		
		I=	<i></i>	Activities		
1 PH will work with partners to develop a plan for the management of spontaneous volunteers. (Note 2)	Q1	Deb Diaz				
2 6/9/17: Public Health will work with other HCC partners and	Q1	Deb Diaz				
stakeholders, especially Mammoth Hospital, Mono County EMS						
Department, and Mono County OES, to outline a process for managing spontaneous volunteers. (Note 2)						
3 6/9/17: Based on discussion and input from partners above, Public	Q2	Deb Diaz				
Health will create a draft document outlining roles and						
responsibilities of each partner in managing spontaneous						
volunteers. (Note 2)			-			
4 6/9/17: Public Health will seek to develop consensus and approval for the plan to manage spontaneous volunteers. (Note 8)	Q3	Deb Diaz				
5 6/9/17: Public Health will provide training to its staff on the role of the	Q4	Deb Diaz				
department in managing spontaneous volunteers. (Note 9)						
6						
7						
8						
10						
Required				Delive	able(s)	
Deliverable 1) Documentation of a process to manage spontaneous volunteers.						
Notes:						

Objective 5 (Domain 5, Activity 3/Function 4)	Est.		Mid-	Year Report	Year End Report	
Develop a process for the demobilization of public health personnel and	Finish	Staff Lead		Primary Barrier		Primary Barrier
volunteers, including DHV.	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
			(Dbjective		
	Q3	Deb Diaz				
	QS	Deb Diaz				
Activities			-	Activities	<u>.</u>	
1 PH will develop a process for demobilization of PH personnel and volunteers. (Note 2)	Q3	Deb Diaz				
2 6/9/17: Public Health will research best practices and lessons learned from other sources as to the process and what is necessary, since we have not done any work in this area thus far. (Note 2)	Q1	Deb Diaz				
3 6/9/17: Based on above research, Public Health will create a draft process for demobilization of PH personnel and volunteers, and will include all necessary elements as determined from said research. (Note 2)	Q2	Deb Diaz				
4 6/9/17: Public Health will provide training to its staff on the process for demobilization of staff and volunteers, and modify the process based on input from staff. (Notes 8 and 9)	Q3	Deb Diaz				
5						
6						
7						
8						
9						
10						
Required			•	Deliver	rable(s)	
Deliverable 1) Demobilization plan, process or checklist for volunteers.						
Notes:						

General Notes

•	All Objective Activities and Deliverables should be S.M.A.R.T (Specific, Measurable, Assignable, Realistic, and Time-related).						
•	Small, Medium, Large Counties	ies Small County: Population < 200,000					
	(CHEAC)	Medium County: Population 200,000 - 699,999					
		Large County: Population 700,000 or more					

Specific Notes

#	Subject	Note					
1	Evaluate in drill, exercise, or real	HSEEP compliant exercise					
	event	AAR/IP					
	This includes:	List of Participants					
		Copy of exercise materials					
2	Developing a plan activities	Meet with stakeholders					
	examples	Research					
		Draft					
		Share draft with stakeholders					
		Revise to include stakeholder input					
		Approval of plan					
3	Sustainment activities	Meet with stakeholders					
	examples	Training					
		Test, drill, exercise					
		Updating procedures, processes, checklists, Job Action Sheets, contact lists etc.					
		Review/Revise plan(s)					
4	Documentation of meetings	Date and agenda					
	This includes:	Key outcomes and action items					
		List of all invites (distinguish between actuals and no-shows)					
5	Access to Care	Access to care includes physical access to public health or healthcare services during a					
		disaster. (e.g., transportation, accessible medical care sites such as medical shelters or					
		field treatment sites, PODs, etc.).					
6	Top prioritized hazard(s):	The top hazard(s), as prioritized by the county. This does not require that you use the					
		top hazards from the 2012 Public Health Risk Assessment.					
7	Capability 1	Business					
	Eleven community sectors	Community leadership					

		Cultural and faith-based groups and organizations
		Emergency management
		Healthcare
		Social services
		Housing and sheltering
		Media
		Mental/behavioral health;
		Department of Aging or equivalent
		Education and childcare settings
8	Completed plans, procedures, protocols, etc	Completed plans, policies, and protocols includes approved according to local policy. Working drafts may be considered completed if they are reviewed and updated as needed every two years.
9	Documentation of training	Training materials
	This includes:	List of participants
10	At-Risk Populations	As defined at the local level, i.e. what populations are at-risk within your operational area. Additional resource: http://www.phe.gov/Preparedness/clearinghouse/casualty/Documents/atrisk.pdf

PHEP Capability 1 Community Preparedness

11	Required Planning Elements	1. Triggers for activation of the plan
	Exercise must include at least 3	
		2. Decomproposion of boopitals, proload diversion to other delivery eiter including
		2. Decompression of hospitals, preload diversion to other delivery sites including
		government authorized alternate care sites and triage protocols and routing of patients
		3. Evacuation/shelter in place pans and Operational Area support of facility plans
		4. Process for engaging behavioral/mental health
		5. Patient movement, distribution, and tracking
		6. Volunteer management
		7. Policies and procedures for information sharing and resource requesting for
		healthcare coalition members consistent with standard EOM requirements.
12	Pediatric or Neo-Natal Surge Tool	1. Contra Costa County Neonatal and Pediatric Disaster Toolkit (as an example to show
	Kits or useful information	how this can be done)
		2. Children's LA Disaster Pediatric Emergency Decision Support System (PEDSS)
	Information provided by Pat Frost,	Logistics Tool for the actual surge calculators and tools to do the projections
	Director of Emergency Medical	http://www.chladisastercenter.org/site/c.ntJYJ6MLIsE/b.3569369/k.BB83/PEDSS.htm
	Services, Contra Costa Health Services	the actual tool is at http://pedss.isi.edu/pedss/.
		3. Kidsdata.org for the easy accessible data to get started http://kidsdata.org/
		4. https://sites.google.com/site/pedineonetwork/
		5. OSHPD Hospital Bed capacity information (which always has to be validated locally
		to understand the real capability of the hospitals)
		6. Bed capacity analysis done in 2011 by the Coalition which needs to have some
		corrections and updating prior to making available, but this is what helped us figure this
		out.
		7. Marianne Gausche data from her pediatric readiness study would also help
		http://www.pediatricreadiness.org/
		8. EMSA has a Regional Trauma Care Commission Data form that has useful
		information including pediatrics information but again would need to get the most recent
		version from the EMS Authority.

FY 17/18 PHEP Base Budget

Date: 5/18/2017

Entity Name: Mono County					
Allocation:	\$107,374				
Indirect Cost based on:	Personnel	S			
Personnel Costs Rate	25.0%				
Direct Costs Rate					

See Indirect Cost Rate tab

	BUDGET	
Budget Category	Total	% Allocation
Personnel	\$48,093.07	45%
Fringe	\$37,554.00	35%
Operating Expenses	\$0.00	0%
Equipment	\$0.00	0%
In State Travel	\$0.00	0%
Out of State Travel	\$0.00	0%
Subcontracts	\$0.00	0%
Other Costs	\$315.16	0%
Total Direct	\$85,962.23	80%
Indirect Cost (\$)	\$21,411.77	
Total Expenditures	\$107,374.00	
Payment Balance	\$0.00	
Balance	\$0.00	

	2017 - 2018 PROJECT BUDGET	CDC PHEP Base Funds		Capability	Obj.	Budget Justidication	
	Personnel						
UID	Position Title and Name of personnel in that position	FTE	Salary	Cost			
	Public Health Officer - Richard Johnson, M.D.	70/	¢ 405.044	\$44.044	Dramon Management		The Health Officer facilitates, develops, and directs all PHEP activities. Dr. Johnson is employed as a part-time Health Officer. Additional hours are funded by the grants, and subject to the availability of funds. Continuous time studies are used to track time in the different programs and grants. Fractional positions exist solely to support program operations. No other funding exists to support program activities related to this budget.
PP101	Public Health Emergency Preparedness Manager - Debra Diaz	7%	\$ 165,911	\$11,614	Program Management	All	The Emergency Preparedness Coordinator oversees all education and training and assists the Health Officer in
	Fublic Health Emergency Freparedness Manager - Debra Diaz						managing all grant activities, focusing on access and functional needs program, CAHAN, and DHV.
PP102		25%	\$ 64,674	\$16,169	Program Management	All	
PP103	Fiscal and Technical Specialist IV - Nancy Cruz-Garcia	40%	\$ 50,777	\$20,311	Program Management	All	This individual provides support for the Emergency Preparedness Manager across all capabilities. She performs yearly inventory checks, and keeps contact lists and supplies up-to-date, including the ERD, the MHOAC Resource Directory. She performs essential logistical support for all planned meetings, trainings, and exercises. Fractional positions exist solely to support program operations. No other funding exists to support program activities related to this budget.
PP104			\$ -	\$0			
PP105			\$-	\$0			
PP106			\$-	\$0			
PP107			\$-	\$0			
PP108			\$-	\$0			
PP109			\$-	\$0			
PP110			\$ -	\$0			
PP111			\$ - \$ -	\$0			
PP112			\$- \$-	\$0 \$0			
PP113 PP114			э - \$ -	\$0 \$0			
PP115			\$ -	\$0			
PP116			\$-	\$0			
PP117			\$-	\$0			
PP118			\$ -	\$0			
PP119			\$-	\$0			
PP120			\$ -	\$0			
PP121			\$-	\$0			
PP122			\$-	\$0			
PP123			\$ -	\$0			
PP124			\$- \$-	\$0			
PP125			Ъ -	\$0 \$48,093		L	
				40,093			
	Fringe Benefits Subtotal Personnel and Fringe	% 78.09%]	<u>\$37,554</u> \$85,647			

UID	Operating Expenses		Cost	Capability	Obj.	Budget Justification
POE101			\$0			
POE102			\$0			
POE103			\$0			
POE104		-	\$0			
POE105			\$0			
POE106		-	\$0			
POE107			\$0			
POE108		-	\$0			
POE109			\$0			
POE110		-	\$0			
POE111			\$0			
POE112		-	\$0			
POE113		_	\$0			
POE114		-	\$0			
POE115		-	\$0			
POE116		_	\$0			
POE117			\$0			
POE118			\$0			
POE119			\$0			
POE120			\$0			
	Operating Expenses Subtotal		\$0			

UID	Equipment (Minor/Major)	Quantity	Unit Price	Total	Capability	Obj.	Budget Justification
PE101				\$0			
PE102				\$0			
PE103				\$0			
PE104				\$0			
PE105				\$0			
PE106				\$0			
PE107				\$0			
PE108				\$0			
PE109				\$0			
PE110				\$0			
PE111				\$0			
PE112				\$0			
PE113				\$0			
PE114				\$0			
PE115				\$0			
PE116				\$0			
	Equipment Subtotal \$0						

UID	In State Travel/Per Diem	Total	Capability	Obj.	Budget Justification
PT101		\$0			
PT102		\$0			
PT103		\$0			
PT104		\$0			
	In State Travel/Per Diem Subtotal	\$0			
UID	Out of State Travel/Per Diem	Total	Capability	Obj.	Budget Justification
PT105		\$0			
PT106		\$0			
PT107		\$0			
	Out of State Travel/Per Diem Subtotal	\$0			

UID	Subcontracts		Total	Capability	Obj.	Budget Justification
PC101			\$0			
PC102			\$0			
PC103		-	\$0			
PC104			\$0			
PC105		-	\$0			
PC106			\$0			
PC107			\$0			
PC108			\$0			
PC109			\$0			
PC110			\$0			
PC111			\$0			
	Subcontract Subtotal		\$0			

Attachment 05

UID	Other Costs		Total	Capability	Obj.	Budget Justification
UD	Software and Licenses	-	\$0	Capability	Obj.	Budget Justification
Bound	Software and Licenses	-	\$0 \$0		1	
PO101		-				
PO102		-	\$0 \$0			
PO103 PO104		-	\$0 \$0			
PO104 PO105		-	\$0 \$0			
PO105		-	\$0 \$0			
10100	Training	-	\$315			
PO107	SWMHE - Tabletop and Functional Exercise	-	\$315	Medical Surge	1	Lunch and lunch supplies for the tabletop and functional exercise participants.
PO108	· · · · · · · · · · · · · · · · · · ·	-	\$0	modical ourge		
PO109		-	\$0			
PO110			\$0			
PO111			\$0			
PO112			\$0			
PO113			\$0			
PO114			\$0			
	Exercise Materials		\$0			
PO115		_	\$0			
PO116		_	\$0			
PO117		_	\$0			
PO118		_	\$0			
PO119		-	\$0			
	Maintenance Agreements	-	\$0		-	
PO120		-	\$0			
PO121		-	\$0			
PO122		-	\$0			
PO123		-	\$0			
PO124	Other Costs Subtotal		\$0 \$315			
	Other Costs Subtotal		\$315			
	Total Direct Costs		\$85,962			
	Total Indirect Costs		\$21,412			
			φ21,412			
	Total Costs		\$107,374			
			φ107,374			

Indirect Cost Rate							
Personnel Cost	Direct Cost						
	11.18%						
	15.00%						
25.00%							
	14.43%						
25.00%							
25.00%							
25.00%							
11.10%							
25.00%							
25.00%							
24.71%							
25.00%							
25.00%							
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20.35%							
	Personnel Cost 25.00% 20.08%						

	07.000/	
Shasta	25.00%	
Sierra	25.00%	
Siskiyou	11.05%	
Solano	15.0	0%
Sonoma	23.39%	
Stanislaus	25.00%	
Sutter	25.00%	
Tehama	25.00%	
Trinity	25.00%	
Tulare	15.31%	
Tuolumne	25.00%	
Ventura	14.31%	
Yolo	25.00%	
Yuba	25.00%	

Attachment 02



CALIFORNIA DEPARTMENT OF PUBLIC HEALTH

Mono County

Local Pan Flu Work Plan

FY 17-18

3/24/2017 v1 State General Fund Pandemic Influenza Planning Program (Pan Flu)

EMERGENCY PREPAREDNESS OFFICE

BE PREPARED CALIFORNIA

Pan Flu

Goal:

Strengthen operational area planning and response for an pandemic influenza.

Known Gaps:

Our Pan Flu Plan has been incorporated into our Infectious Disease Response Plan, and is nearing completion. It will include lessons learned from exercises, H1N1, Ebola, and Zika response.

Baseline Deliverables	Mid	-Year Report	Year	· End Report
	Status	Primary Barrier (Describe in Notes)	Status	Primary Barrier (Describe in Notes)
1) Data submitted to CDPH related to to severe (hospitalized in an intensive care unit [ICU]) and fatal cases of influenza for lab-confirmed cases for person under the age of 65.				
2) Report all laboratory-confirmed influenza cases according to severity categories specified by CDPH				
3) Written policies and procedures are in place for quarantine and/or isolation including the use of law enforcement for noncompliance.				
4) List of activities to support healthcare facility infection control efforts based on lessons learned from recent outbreaks and current events.				
5) List of engagement activities with the local HPP Entity to promote access to healthcare for at-risk populations during an emergency.				
6) Optional for Mass Vaccination Clinic Exercises: Conduct a exercise and do an AAR/IP Exercise should include: identification of the high risk and priority target groups, receipt of the vaccine, with the focus on low income populations, collaboration between public health emergency preparedness personnel and immunization program personnel to plan and conduct the exercise				
Notes:				

Objective 1	Est.		Mid	-Year Report	Year	r End Report
All Counties:	Finish	Staff Lead		Primary Barrier		Primary Barrier
Maintain a surveillance system for reporting severe (hospitalized in an ICU) and	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
fatal cases of laboratory-confirmed influenza under 65 years of age via electronic	-	·· · ·	(Objective		
means or fax during both the regular influenza season and in a pandemic.						
	Q4	Richard Johnson				
Activities				Activities		
1 Maintain current full CaIREDIE capability, with documentation of	Q4	Richard Johnson				
having a trained CalREDIE Administrator (Note 3)						
2 Continue to renew the Health Officer order from Nov., 2009 at the	Q2	Richard Johnson				
beginning of each seasonal influenza season. (Notes 3 and 7)						
3						
4						
5						
6						
7						
8						
9						
10						
Required			•	Deliver	able(s)	
Deliverable 1) Influenza surveillance records.						
Notes: The Health Officer order, which was issued in November, 2009, is st	ill in effe	ect. This mandates our o	nly general a	cute care hospital to	o report all ho	ospitalizations of
laboratory confirmed influenza cases regardless of age. A reminder of						beginning of each
annual flu season. This would be extended to apply to any pandemic	which	night occur outside of th	e usual seaso	onal influenza seaso	on.	

	Est.		Mid-	Year Report	Year	End Report
S:	Finish	Staff Lead		Primary Barrier		Primary Barrier
ability to identify and report (via electronic means or fax) ALL	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
onfirmed influenza cases according to severity categories that will be			C	bjective		
CDPH (e.g., hospitalized ICU/severe, outpatient or fatal) during an						
declared pandemic.	Q4	Richard Johnson				
	<u></u>		A	Activities		
The current full capability and well functioning system will be maintained. See Objective 1, Activities 1 and 2 (Notes 3 and 7)	Q4	Richard Johnson				
The Health Officer is a Sentinel Provider in the CDC Influenza-like Illness Program, screening approx. 400-500 outpatient visits per	Q4	Richard Johnson				
week during the seasonal influenza season. OUTPUT: documentation of weekly reports to CDC (Note 3)						
				Deliver	able(s)	
1) Procedure and template for reporting influenza cases by severity.						
(ED, clinic, inpatient, ICU, death). This normally occurs throughout th potential affected time period. In addition, the Health Officer is a Sent	e annua tinel Pro	al seasonal influenza sea ovider in the CDC ILINet,	son, but in a U.S. Outpatio	pandemic, would b ent Influenza-like III	e extended t ness Surveil	hroughout any lance Network,
	onfirmed influenza cases according to severity categories that will be CDPH (e.g., hospitalized ICU/severe, outpatient or fatal) during an declared pandemic. The current full capability and well functioning system will be maintained. See Objective 1, Activities 1 and 2 (Notes 3 and 7) The Health Officer is a Sentinel Provider in the CDC Influenza-like Illness Program, screening approx. 400-500 outpatient visits per week during the seasonal influenza season. OUTPUT: documentation of weekly reports to CDC (Note 3) 1) Procedure and template for reporting influenza cases by severity. Mammoth Hospital electronically reports to the Health Department or (ED, clinic, inpatient, ICU, death). This normally occurs throughout th potential affected time period. In addition, the Health Officer is a Sential Sen	onfirmed influenza cases according to severity categories that will be CDPH (e.g., hospitalized ICU/severe, outpatient or fatal) during an declared pandemic. Q4 The current full capability and well functioning system will be maintained. See Objective 1, Activities 1 and 2 (Notes 3 and 7) Q4 The Health Officer is a Sentinel Provider in the CDC Influenza-like Illness Program, screening approx. 400-500 outpatient visits per week during the seasonal influenza season. OUTPUT: documentation of weekly reports to CDC (Note 3) Q4 1) Procedure and template for reporting influenza cases by severity. Mammoth Hospital electronically reports to the Health Department on a wee (ED, clinic, inpatient, ICU, death). This normally occurs throughout the annua potential affected time period. In addition, the Health Officer is a Sentinel Pro	onfirmed influenza cases according to severity categories that will be CDPH (e.g., hospitalized ICU/severe, outpatient or fatal) during an declared pandemic. Q4 Richard Johnson The current full capability and well functioning system will be maintained. See Objective 1, Activities 1 and 2 (Notes 3 and 7) Q4 Richard Johnson The Health Officer is a Sentinel Provider in the CDC Influenza-like Illness Program, screening approx. 400-500 outpatient visits per week during the seasonal influenza season. OUTPUT: documentation of weekly reports to CDC (Note 3) Q4 Richard Johnson 1) Procedure and template for reporting influenza cases by severity. Image: Comparison of the compa	onfirmed influenza cases according to severity categories that will be CDPH (e.g., hospitalized ICU/severe, outpatient or fatal) during an declared pandemic. Q4 Richard Johnson The current full capability and well functioning system will be maintained. See Objective 1, Activities 1 and 2 (Notes 3 and 7) Q4 Richard Johnson The Health Officer is a Sentinel Provider in the CDC Influenza-like Illness Program, screening approx. 400-500 outpatient visits per week during the seasonal influenza season. OUTPUT: documentation of weekly reports to CDC (Note 3) Q4 Richard Johnson 1) Procedure and template for reporting influenza cases by severity. Image: Comparison of the annual seasonal influenza season, but in a potential affected time period. In addition, the Health Officer is a Sentinel Provider in the CDC (LINet, U.S. Outpatier	Onfirmed influenza cases according to severity categories that will be CDPH (e.g., hospitalized ICU/severe, outpatient or fatal) during an declared pandemic. Q4 Richard Johnson Q4 Richard Johnson Activities The current full capability and well functioning system will be maintained. See Objective 1, Activities 1 and 2 (Notes 3 and 7) Q4 Richard Johnson Activities The Health Officer is a Sentinel Provider in the CDC Influenza-like Ullness Program, screening approx. 400-500 outpatient visits per week during the seasonal influenza season. OUTPUT: documentation of weekly reports to CDC (Note 3) Q4 Richard Johnson Image: Comparison of the compar	onfirmed influenza cases according to severity categories that will be CDPH (e.g., hospitalized ICU/severe, outpatient or fatal) during an declared pandemic. Q4 Richard Johnson Activities The current full capability and well functioning system will be maintained. See Objective 1, Activities 1 and 2 (Notes 3 and 7) Q4 Richard Johnson Activities The Health Officer is a Sentinel Provider in the CDC Influenza-like Illness Program, screening approx. 400-500 outpatient visits per week during the seasonal influenza season. OUTPUT: documentation of weekly reports to CDC (Note 3) Q4 Richard Johnson Image: Comparison of the co

Objective 3	Est.		Mid-	Year Report	Year	End Report
Counties with a PHL:	Finish	Staff Lead		Primary Barrier		Primary Barrier
A. Maintain the ability of the public health laboratory to type and subtype	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
influenza A viruses and lineage type influenza B viruses (if the laboratory is	-		-			
capable of lineage type testing) for any cases tested for influenza by status of						
clinical severity (e.g., hospitalized ICU/severe cases, outpatients, and/or fata						
cases) during both the regular influenza season and in a pandemic and report						
results to CDPH through established reporting mechanisms.			C	Dbjective		
B. Submit influenza positive specimens to the CDPH Viral and Rickettsial						
Diseases Laboratory (VRDL) for antiviral resistance testing. The goal for the number of specimens to be submitted to VRDL are provided by the CDPH						
Immunization Branch to each public health laboratory in accordance with the						
Association of Public Health Laboratories Influenza Virologic Surveillance Right Size Roadmap that can be found at						
www.aphl.org/aboutAPHL/publications/Documents/ID_July2013_Influenza-						
Virologic-Surveillance-Right-Size-Roadmap.pdf)						
Activities				Activities		
1 N/A						
2						
3						
4						
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Required				Deliver	able(s)	
Deliverable 1) Procedure and template for lab reporting influenza cases by sever	ity.					
Notes:						

Objective 4	Est.		Mid	Year Report	Yea	r End Report
All Counties:		Staff Lead		Primary Barrier		Primary Barrier
Maintain the ability to conduct active or passive monitoring for influenza-like	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
illness among persons exposed to avian or novel influenza viruses (e.g.,	.		(Objective		
persons exposed to poultry infected with avian influenza on farms inside or						
outside of CA, persons exposed to humans with novel influenza virus infections						
such as H7N9 or H5N1). Report monitoring activities and results to CDPH electronically or via fax. Test symptomatic persons being monitored for influenza	Q4	Richard Johnson				
that were exposed to avian or novel influenza viruses at a public health	S.					
laboratory.						
Activities			1	Activities		
1 The Health Officer will monitor various sources (e.g., CDPH CD	Q4	Richard Johnson				
Brief, CAHAN, CDC, Epi-X, ProMED) for potential cases or						
outbreaks of avian or novel influenza viruses inside or outside of						
California. OUTPUT: Infectious Disease Response Plan (Notes 2						
and 7)						
2 The Health Officer will maintain current 24/7 redundant contact	Q4	Richard Johnson				
information in order to receive reports of persons possibly exposed.						
(Notes 2 and 7) 3 The Health Officer will delegate staff to monitor (e.g., home visits,	01	Dishard Jahraan				
electronic - text, Skype, phone) potentially exposed individuals for	Q4	Richard Johnson				
signs and symptoms every 12-24 hours for the duration of the						
incubation period. (Notes 2 and 7)						
4 All activities and results will be reported to CDPH via CalREDIE	Q4	Richard Johnson	-			
according to CDPH protocol, or via fax. (Notes 2 and 7), see	04					
Objective 1 and 2.						
	0.4	D ' 1 1 1 1	-			
5 Testing will be performed according to CDPH guidance, and specimens sent to San Joaquin PH lab, CDPH VRDL, or CDC, as	Q4	Richard Johnson				
directed. (Notes 2 and 7)						
	<u> </u>					
6 Participate with Region VI in quarterly RDMHS/MHOAC meertings	Q4	Richard Johnson				
in order to coordinate situation reporting, resource requesting, and						
transportation needs for persons with highly contagious emerging infectious disease.						
intectious disease.						
7						
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10					
Required		-	Delive	rable(s)	
Deliverable	 Procedure for monitoring exposed persons. Template for reporting monitoring activities to CDPH. 				
	2) Template for reporting monitoring activities to CDPH.				
Notes:					

Objective 5		Est.		Mid-	Year Report	Year	End Report
All Counties:		Finish	Staff Lead		Primary Barrier		Primary Barrier
Maintain plans for disse	minating CDPH/LHD guidelines for prioritization of	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
	ing to public and private laboratories, healthcare facilities			C	bjective		/
	r key healthcare partners within the jurisdiction during						
	a season and in a pandemic.	Q4	Richard Johnson				
Activities				A	Activities		
CDPH via e	Officer receives all electronic correspondence from e-mail or CAHAN alerts. This includes all guidelines for aboratory testing. (Notes 2 and 7)	Q4	Richard Johnson				
application,	Officer modifies CDPH and CDC guidance for local and distributes to all health care facilities, providers, and ough Mono-Grams. (Notes 2 and 7)	Q4	Richard Johnson				
	ition lists for the Mono-Grams are kept current at all updated frequently. (Note 3)	Q4	Richard Johnson				
the Mono-G department	on Control Practitioner at Mammoth Hospital redistributes Grams both electronically and by hand to all clinical s and providers within our single acute care hospital, des laboratory, and primary and specialty care clinics. Id 7)	Q4	Richard Johnson				
5							
6							
7							
8							
9							
10							
Required					Deliver	able(s)	
Deliverable 1) Guideline	es for prioritizing lab testing.						
Notes:					1		

Objective 6		Est.		Year Report	Year End Report	
All Counties:		Staff Lead		Primary Barrier		Primary Barrier
Support healthcare facility infection control efforts based on lessons learned from	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
recent outbreaks and current events.			(bjective		
	Q4	Richard Johnson				
Activities		1	A	Activities		
1 The Health Officer and the Infection Control Practitioner are members of the Mammoth Hospital Disaster Preparedness Committee, which also discusses infection control issues. (Note 4)	Q4	Richard Johnson				
2 The Health Officer is the Staff Epidemiologist for Mammoth Hospital, and is in frequent contact with the Infection Control Practitioner. (Note 4)	Q4	Richard Johnson				
3 Mammoth Hospital participates with us in all exercises, hotwashes, and AAR/IP's. We will continue to engage Mammoth Hospital in all of our exercises, hotwashes, and AAR/IP's so that lessons learned are incorporated into our plans, policies, and procedures as we move forward. (Note 1)	Q4	Richard Johnson				
4 The Health Officer will continue to enhance Infectious Disease Response Plan. (Note 2)	Q2	Richard Johnson				
6						
8						
9						
10 Required		l		Deliver	ahle(s)	
Deliverable 1) Updated Infectious Disease plan.						
Notes:						<u> </u>

Objective 7		Est.		Mid	Year Report	Year End Report	
All Countie	9S:		Staff Lead		Primary Barrier		Primary Barrier
	cal Disaster Healthcare Volunteers Program activities for registration,	Date	(first and last name)	Status	(Describe in Notes) Objective	Status	(Describe in Notes)
credentialing	g and deploying volunteers.			I	Djective	,	
		Q4	Deb Diaz				
Activities					Activities		
	Maintain the local DHV system by participating in at least 3 quarterly conference calls, in at least 3 quarterly DHV system drills, and maintaining DHV software administration capability. (Note 3)	Q4	Deb Diaz				
2	Maintain contact with all registered DHV responders within the operational area at least semi-annually. (Note 3)	Q4	Deb Diaz				
	Document discussion with essential members of the Healthcare Coalition at Mammoth Hospital Disaster Preparedness Committee, the Emergency Medical Care Committee, and Unified Command, of their potential volunteer medical personnel needs. (Note 4)	Q4	Deb Diaz				
4	Document outreach to the community and organizations in order to educate and recruit members into the DHV Program. (Note 4)	Q4	Deb Diaz				
-	6/9/17: The DHV Coordinator will conduct a call-out drill with a specific scenario based on one of our highest risk hazards that will involve credentialing and deployment of local registered DHVs.	Q4	Deb Diaz				
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Required					Deliver	able(s)	
Deliverable	1) Document outreach efforts to targeted group of medical and health	ı volunt	eers.				
Notes:							

Objective 8	Est.		Mid	Year Report	Year	End Report
All Counties:	Finish	Staff Lead		Primary Barrier		Primary Barrier
In coordination with the local Hospital Preparedness Program (HPP) and building	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
on activities from FY16/17, engage in preparedness activities to promote access			(Dbjective		
to healthcare for at-risk populations during an emergency.	Q4	Deb Diaz				
Activities				Activities		
1 Document continued outreach to the public through various individuals and organizations, e.g., providers, govt, CBO, FBO, etc., to enroll persons into the access and functional needs database. (Notes 4, 5, and 9)	Q4	Deb Diaz				
2 Enroll interested persons into the database, including GIS information. (Notes 3, 4, 5, and 9)	Q4	Deb Diaz				
3 Annually contact all enrollees to update and maintain current information. (Notes 3, 4, 5, and 9)	Q3	Deb Diaz				
4 Annually participate with local OES on a drill of use of the database in a specific geographic area of the jurisdiction, complete with AAR/IP. (Note 1) 6/9/17: The drill will involve local EMS and the Base Station - Mammoth Hospital, in addition to OES, in order to order an evacuation, locate persons in the geographic area potentially needing assistance with transportation, triage by EMS, and medical direction from the Base Station regarding destination.	Q3	Deb Diaz				
5 One person will attend the annual CDPH EPO workshop in Sacramento in June, 2018 (Note 4)	Q4	Deb Diaz				
7						
8 9						
10						
Required				Deliver	able(s)	
Deliverable 1) Document outreach efforts to community to reach at-risk population	ons.					

Mono County Notes:

Est.		Mid	-Year Report	Yea	r End Report
Finish	Staff Lead		Primary Barrier		Primary Barrier
Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
		(Objective		•
Q1	Richard Johnson				
			Activities		
e Q1	Richard Johnson			1	1
s					
	Richard Johnson				
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		_			
		1	Deliver	rable(s)	
				<u>.</u>	
	Date , Q1 e Q1 es	Date (first and last name) Q1 Richard Johnson e Q1 Richard Johnson es Q1 Richard Johnson	Date (first and last name) Status Q1 Richard Johnson () e Q1 Richard Johnson es Q1 Richard Johnson	Date (first and last name) Status (Describe in Notes) Objective Objective Q1 Richard Johnson Activities e Q1 Richard Johnson Activities g Q1 Richard Johnson Image: Comparison of the second secon	Date (first and last name) Status (Describe in Notes) Status Objective Objective Q1 Richard Johnson Activities e Q1 Richard Johnson Image: Comparison of the second

Objective 1	0	Est.		Mid-	Year Report	Year	End Report
Optional		Finish	Staff Lead		Primary Barrier		Primary Barrier
Invest up to	25% of pandemic influenza funding for influenza vaccine and/or 5%	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
for pneumod	coccal vaccine for mass vaccination exercises.			C	bjective		
Activities				ļ	Activities		
1	N/A						
2							
3							
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5							
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8							
9							
10							
Notes:		-					

Objective 11 Optional or Carried-Forward from FY16/17	Est.		Mid-	Year Report	Year End Report	
		Staff Lead		Primary Barrier		Primary Barrier
	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
	r		C	bjective		
Activities			ŀ	Activities		
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10						
Required	1			Deliver	rable(s)	
Deliverable 1)				2011/01		
2)						
3)						
Notes:				1		1

Objective 12 Optional or Carried-Forward from FY16/17	Est.		Mid-	Year Report	Year End Report	
		Staff Lead		Primary Barrier		Primary Barrier
	Date	(first and last name)	Status	(Describe in Notes)	Status	(Describe in Notes)
	-	•	C	bjective		
Activities				Activities		
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3	1					
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10						
Required			<u>I</u>	Delive	rable(s)	
Deliverable 1)						
2) 3)						
Notes:						

FY 17-18 Pan Flu Work Plan

General Notes

•	All Objective Activities and Deliverables should be S.M.A.R.T (Specific, Measurable, Assignable, Realistic, and Time-related).			
•	Small, Medium, Large Counties	Small County: Population < 200,000		
	(CHEAC)	Medium County: Population 200,000 - 699,999		
		Large County: Population 700,000 or more		

Specific Notes

Subject	Note
Evaluate in drill, exercise, or real	HSEEP compliant exercise
event	AAR/IP
This includes:	List of Participants
	Copy of exercise materials
Developing a plan activities	Meet with stakeholders
examples	Research
	Draft
	Share draft with stakeholders
	Revise to include stakeholder input
	Approval of plan
Sustainment activities	Meet with stakeholders
examples	Training
	Test, drill, exercise
	Updating procedures, processes, checklists, Job Action Sheets, contact lists etc.
	Review/Revise plan(s)
Documentation of meetings	Date and agenda
This includes:	Key outcomes and action items
	List of all invites (distinguish between actuals and no-shows)
Access to Care	Access to care includes physical access to public health or healthcare services during
	a disaster. (e.g., transportation, accessible medical care sites such as medical shelters
	or field treatment sites, PODs, etc.).
	event This includes: Developing a plan activities examples Sustainment activities examples Documentation of meetings This includes:

FY 17-18 Pan Flu Work Plan

6	Top prioritized hazard(s):	The top hazard(s), as prioritized by the county. This does not require that you use the top hazards from the 2012 Public Health Risk Assessment.
7	Completed plans, procedures, protocols, etc	Completed plans, policies, and protocols includes approved according to local policy. Working drafts may be considered completed if they are reviewed and updated as needed every two years.
8	Documentation of training	Training materials
	This includes:	List of participants
9	At-Risk Populations	As defined at the local level, i.e. what populations are at-risk within your operational area. Additional resource: http://www.phe.gov/Preparedness/clearinghouse/casualty/Documents/atrisk.pdf
10	Required Planning Elements	1. Triggers for activation of the plan
	Exercise must include at least 3	 Decompression of hospitals, preload diversion to other delivery sites including government authorized alternate care sites and triage protocols and routing of patients Evacuation/shelter in place pans and Operational Area support of facility plans
		4. Process for engaging behavioral/mental health
		5. Patient movement, distribution, and tracking
		6. Volunteer management
		7. Policies and procedures for information sharing and resource requesting for healthcare coalition members consistent with standard EOM requirements.

Notes

FY 17-18 Pan Flu Work Plan

11	Pediatric or Neo-Natal Surge Tool	1. Contra Costa County Neonatal and Pediatric Disaster Toolkit (as an example to
	Kits or useful information	show how this can be done)
		2. Children's LA Disaster Pediatric Emergency Decision Support System (PEDSS)
	Information provided by Pat Frost,	Logistics Tool for the actual surge calculators and tools to do the projections
		http://www.chladisastercenter.org/site/c.ntJYJ6MLIsE/b.3569369/k.BB83/PEDSS.htm
		the actual tool is at http://pedss.isi.edu/pedss/.
		3. Kidsdata.org for the easy accessible data to get started http://kidsdata.org/
		4. https://sites.google.com/site/pedineonetwork/
		5. OSHPD Hospital Bed capacity information (which always has to be validated locally
		to understand the real capability of the hospitals)
		6. Bed capacity analysis done in 2011 by the Coalition which needs to have some
		corrections and updating prior to making available, but this is what helped us figure this
		out.
		7. Marianne Gausche data from her pediatric readiness study would also help
		http://www.pediatricreadiness.org/
		8. EMSA has a Regional Trauma Care Commission Data form that has useful
		information including pediatrics information but again would need to get the most
		recent version from the EMS Authority.
		,

Pan Flu Budget FY17-18

FY 17/18 Pan Flu Budget

Date: 5/12/2017

Entity Name: Mono County		
Allocation:	\$60,447	
Indirect Cost based on:	Personnel	S
Personnel Costs Rate	25.0%	
Direct Costs Rate		

See Indirect Cost Rate tab

	BUDGET		
Budget Category	Total	% Allocation	
Personnel	\$24,464.05	40%	
Fringe	\$16,537.00	27%	
Operating Expenses	\$6,577.69	11%	
Equipment	\$0.00	0%	
In State Travel	\$2,618.00	4%	
Out of State Travel	\$0.00	0%	
Subcontracts	\$0.00	0%	
Other Costs	\$0.00	0%	
Total Direct	\$50,196.74	83%	
Indirect Cost (\$)	\$10,250.26		
Total Expenditures	\$60,447.00		
Payment Balance	\$0.00		
Balance	(\$0.00)		

	2017 - 2018 PROJECT BUDGET	State Pandemic Influenza Funds		Obj.	Budget Justidication	
	Personnel					
UID	Position Title and Name of personnel in that position	FTE	Salary	Cost		
	Public Health Officer - Richard Johnson, M.D.					The Health Officer facilitates, develops, and directs all Pan Flu activities. Dr. Johnson is employed as a part-time
						Health Officer. Additional hours are funded by the grants, and subject to the availability of funds. Continuous time
						studies are used to track time in the different programs and grants. Fractional positions exist solely to support program operations. No other funding exists to support program activities related to this budget.
FP101		5%	\$ 165,911	\$8,296	4	program operations. No other funding exists to support program activities related to this budget.
	Emergency Preparedness Manager - Debra Diaz					The Emergency Preparedness Coordinator oversees all staff education and training, and asists the Health Officer
FP102		25%	\$ 64,674	\$16,169	7	in managing all grant activities, focusing on at-risk populations, CAHAN, and DHV.
FP103			\$-	\$0		
FP104			\$-	\$0		
FP105			\$- \$-	\$0 \$0		
FP106				\$0		
FP107 FP108			\$- \$-	\$0 \$0		
FP108			ş -	\$0		
FP110			\$ -	\$0		
FP111			\$-	\$0		
FP112			\$-	\$0 \$0		
FP113			\$ -	\$0		
FP114			\$ -	\$0		
FP115			\$-	\$0		
FP116			\$-	\$0		
FP117			\$-	\$0		
FP118			\$-	\$0		
FP119			\$ -	\$0		
FP120			\$-	\$0		
FP121			\$-	\$0		
FP122			\$ -	\$0		
FP123			\$ -	\$0		
FP124			\$ -	\$0		
FP125			\$ -	\$0		
	\$24,464					
	Fringe Benefits	%]			
		67.60%		\$16,537		
	Subtotal Personnel and Fringe			\$41,001		

	Operating Expenses	Cost	Obj.	Budget Justification
	Communication Service	\$6,20		Monthly charges for satellite phone services for the Public Health Emergency Preparedness staff.
FOE102	Communications	\$37	4	Monthly cell phone allowance for Public Health Emergency Preparedness Staff.
FOE103		\$		
FOE104		\$)	
FOE105		\$)	
FOE106		\$		
FOE107		\$)	
FOE108		\$)	
FOE109		\$		
FOE110		\$)	
FOE111		\$		
FOE112		\$)	
FOE113		\$)	
FOE114		\$)	
FOE115		\$)	
FOE116		\$)	
FOE117		\$)	
FOE118		\$)	
FOE119		\$		
FOE120		\$		
	Operating Expenses Subtotal	\$6,578		

Pan Flu Budget FY17-18

UID	Equipment (Minor/Major)	Quantity	Unit Price	Total	Obj.	Budget Justification
FE101				\$0		
FE102				\$0		
FE103				\$0		
FE104				\$0		
FE105				\$0		
FE106				\$0		
FE107				\$0		
FE108				\$0		
FE109				\$0		
FE110				\$0		
FE111				\$0		
FE112				\$0		
FE113				\$0		
FE114				\$0		
FE115				\$0		
FE116				\$0		
	Equipment Subtotal			\$0		

UID	In State Travel/Per Diem		Total	Obj.	Budget Justification
	Region VI RDMHS Meetings (Quarterly)				Per diem, mileage, and lodging expenses for 1-2 persons to attend the quarterly RDMHS meetings in Riverside,
					CA. These meetings are important for the exchange of information for procedures for situation reporting, resource
FT101			\$1,918	4	requesting, and transportation of highly contagious persons with an emerging infectious disease.
	CDPH Annual Conference	Ī			One person will attend the annual workshop for training and information sharing. Expenses include per diem,
FT102			\$700	8	mileage, and lodging.
FT103			\$0		
FT104			\$0		
	In State Travel/Per Diem Subtotal		\$2,618		
UID	Out of State Travel/Per Diem		Total	Obj.	Budget Justification
FT105			\$0		
FT106			\$0		
FT107			\$0		
	Out of State Travel/Per Diem Subtotal		\$0		

UID	Subcontracts	Total	Obj.	Budget Justification
FC101		\$0		
FC102		\$0		
FC103		\$0		
FC104		\$0		
FC105		\$0		
FC106		\$0		
FC107		\$0		
FC108		\$0		
FC109		\$0		
FC110		\$0		
FC111		\$0		
	Subcontract Subtotal	\$0		

Pan Flu Budget FY17-18

	Budget Justification
\$0	
\$0	
\$0	
\$0	
\$0	
\$0	
\$0	
\$0	
\$0	
\$0	
\$50,197	
\$10,250	
\$60,447	
	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

	Indirect Cost Rate							
Local Entity	Personnel Cost	Direct Cost						
Alameda		11.18%						
Alpine		15.00%						
Amador	25.00%							
Berkeley (City of)		14.43%						
Butte	25.00%							
Calaveras	25.00%							
Colusa	25.00%							
Contra Costa	11.10%							
Del Norte	25.00%							
El Dorado	25.00%							
Fresno	25.00%							
Glenn	24.71%							
Humboldt	25.00%							
Imperial	25.00%							
Inyo	25.00%							
Kern	25.00%							
Kings	25.00%							
Lake	25.00%							
Lassen	25.00%							
Long Beach (City of)	20.47%							
Los Angeles	19.91%							
Madera	25.00%							
Marin	25.00%							
Mariposa	10.00%							
Mendocino	25.00%							
Merced	25.00%							
Modoc	22.79%							
Mono	25.00%							
Monterey	25.00%							
Napa	25.00%							
Nevada	25.00%							
Orange	19.85%							
Pasadena (City of)	19.45%							
Placer	25.00%							
Plumas	25.00%							
Riverside	25.00%							
Sacramento	14.48%							
San Benito	25.00%							
San Bernardino	15.62%							
San Diego	25.00%							
San Francisco	25.00%							
San Joaquin	25.00%							
San Luis Obispo	20.08%							
San Mateo	20.35%							
Santa Barbara	23.52%							
Santa Clara	25.00%							
Santa Cruz	20.04%							

Shasta	25.00%	
Sierra	25.00%	
Siskiyou	11.05%	
Solano		15.00%
Sonoma	23.39%	
Stanislaus	25.00%	
Sutter	25.00%	
Tehama	25.00%	
Trinity	25.00%	
Tulare	15.31%	
Tuolumne	25.00%	
Ventura	14.31%	
Yolo	25.00%	
Yuba	25.00%	

FY 17-18 Personnel Summary

Attachment 04

	FTE %								Annual Salary
NAME/TITLE	PHEP	LABS	CRI	HPP	PAN FLU	Ebola	Zika	TOTAL	(does not include Fringe)
¹ Richard Johnson, M.D Public Health Officer	7.00%			12.00%	5.00%			24.00%	\$165,911.00
¹² Debra Diaz - Public Health Emergency Preparedness Manager	25.00%			50.00%	25.00%			100.00%	\$64,674.00
3 Nancy Cruz-Garcia - Fiscal and Technical Specialist IV	40.00%							40.00%	\$50,777.00
94								0.00%	
5								0.00%	
6								0.00%	
7								0.00%	
8								0.00%	
9								0.00%	
0								0.00%	
1								0.00%	
2								0.00%	
3								0.00%	
4								0.00%	
5								0.00%	
6								0.00%	
7								0.00%	
8								0.00%	
9								0.00%	
0								0.00%	
:1								0.00%	
2								0.00%	
3								0.00%	
24								0.00%	
5								0.00%	
6								0.00%	
7								0.00%	
8								0.00%	
.9									
0								0.00%	
Totals	72.00%	0.00%	0.00%	62.00%	30.00%	0.00%	0.00%		
		Totals 72.00%							Image: Constraint of the state of

EPO Use Only	0.72	0.62	0.30	0.00	0.00