

Purposes

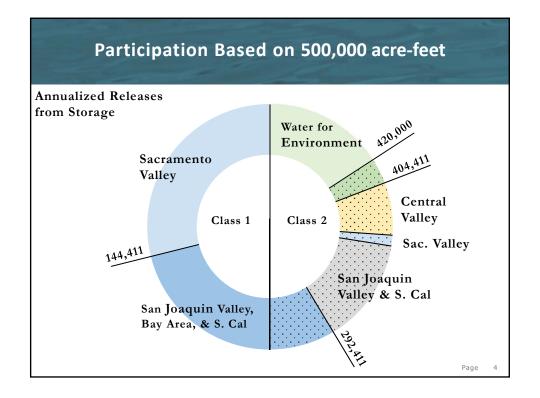
Preparations for Phase 2:

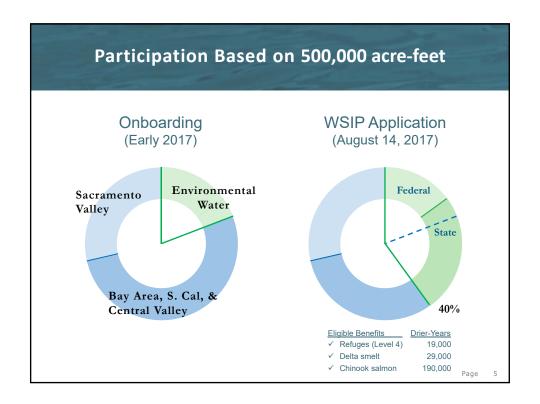
- Provide information
- Answer questions
- Understand your needs & concerns
- Hold "one-on-one" meetings this month

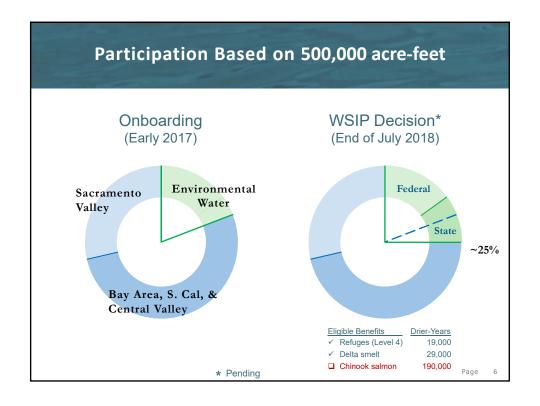


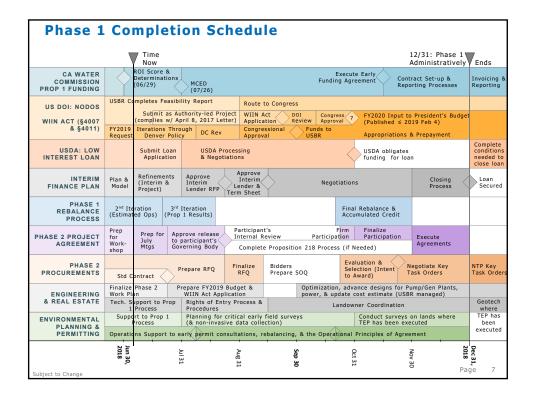
Drganization Acre-ft. Glenn County	Sacramento Vall	ley	Beyond the Sacramer	nto Valley
Asxwell trigation District - California Water Service 35,000. Gehama-Colusa Canal Authority - Coachella Valley Water District 26,500. CWA & City of Roseville - Desert Water Agency 6,500. Colusa County 10,000. Colusa County Water District 32,111. San Bernardino Valley Muni WD 30,000. Celent-Colusa Irrigation District 20,000. Celent-Colusa Irrigation District 20	Organization	Acre-ft.	Organization	Acre-ft.
Tehama-Colusa Canal Authority - Coachella Valley Water District 26,500. COWA & City of Roseville - Desert Water Agency 6,500. Colusa County 10,000. Colusa County Water District 32,111. San Bernardino Valley Muni WD 30,000. San Gorgonio Pass Water Agency 14,000. Colusa County Water District 20,000. San Gorgonio Pass Water Agency 14,000. Coroberta Water District 20,000. Santa Clara Valley Water District 24,000. Santa Clara Valley Water District 24,000. Santa Claria Water Agency 5,000. Western Canal Water District 3,500. Western Canal Water District 3,500. Western Canal Water District 25,000. M Water District 300. Cortina Water District 300. Cortina Water District 300. Authority: 15 Agencies Publication Control Water Resources (non-voting 20) American Canyon 4,000.	Glenn County	-	Antelope Valley-East Kern WA	2,000.
Desert Water Agency 6,500. Metropolitan Water District 50,000. Pacific Resources MWC 20,000. Colusa County Water District 32,111. San Bernardino Valley Muni WD 30,000. San Gorgonio Pass Water Agency 14,000. Proberta Water District 20,000. Santa Clara Valley Water District 24,000. Proberta Water District 3,000. Santa Clara Valley Water District 24,000. Santa Claria Water Agency 5,000. Western Canal Water District 3,500. Western Canal Water District 25,000. Western Canal Water District 25,000. Western Canal Water District 300. Water District 500. Cortina Water District 300. Water District 500. Cortina Water District 5,000. Water District 5,000. Water District 5,000. Water District 5,000. Water District 404,411. Cortina Water District 5,000. Authority: 15 Agencies + US Bureau of Reclamation (non-voting city of American Canyon 4,000.	Maxwell Irrigation District	-	California Water Service	35,000.
Authority: Sacramento Co WA & City of Sacramento Metropolitan Water District 50,000. Metropolitan Water District 50,000. Pacific Resources MWC 20,000. San Bernardino Valley Muni WD 30,000. San Gorgonio Pass Water Agency 14,000. Santa Claria Valley Water District 24,000. Santa Claria Water Agency 5,000. Western Canal Water District 20,000. Western Canal Water District 25,000. Western Canal Water District 500. Metropolitan Water District 20,000. San Gorgonio Pass Water Agency 5,000. Santa Claria Water Agency 5,000. Wheeler Ridge-Maricopa WSD 20,000. Western Canal Water District 25,000. Metropolitan Water Agency 14,000. San Gorgonio Pass Water Agency 14,000. Santa Claria Water Agency 5,000. Wheeler Ridge-Maricopa WSD 20,000. Total acre-ft: 404,411. Authority: 15 Agencies + US Bureau of Reclamation (non-voting Agency Agency) + Dept of Water Resources (non-voting Agency) 14,000. 15,000. 16,000. 17,000. 18,000. 19,000. 19,000. 19,000. 19,000. 10,00	Tehama-Colusa Canal Authority	-	Coachella Valley Water District	26,500.
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Colusa County Water District 32,111. San Bernardino Valley Muni WD 30,000. San Gorgonio Pass Water Agency 14,000. Santa Clara Valley Water District 20,000. Santa Clara Valley Water District 24,000. Santa Clara Valley Water District 24,000. Santa Clarita Water Agency 5,000. Wheeler Ridge-Maricopa WSD 20,000. Western Canal Water District 3,500. Western Canal Water District 500. Westside Water District 500. Cortina Water District 300. Authority: 15 Agencies + US Bureau of Reclamation (non-voting Authority) + Dept of Water Resources (non-voting City of American Canyon 4,000.	Sacramento Co WA & City of Sacram	nento -	Metropolitan Water District	50,000.
San Gorgonio Pass Water Agency 14,000. Proberta Water District 20,000. Reclamation District 108 20,000. Western Canal Water District 3,500. Western Canal Water District 25,000. Western Canal Water District 500. Cortina Water District 500. Cortina Water District 300. Davis Water District 5,000. Water District 5,000. Davis Water District 5,000. Davis Water District 1,000.	Colusa County	10,000.	Pacific Resources MWC	20,000.
Orland-Artois Water District 20,000. Santa Clara Valley Water District 24,000. Santa Clara Valley Water District 24,000. Santa Clarita Water Agency 5,000. Santa Clarita Water Agency 5,000. Wheeler Ridge-Maricopa WSD 20,000. Western Canal Water District 3,500. Zone 7 Water Agency 20,000. Westside Water District 25,000. M Water District 500. Cortina Water District 300. Davis Water District 2,000. Davis Water District 2,000. Davis Water District 5,000. Authority: 15 Agencies Dunnigan Water District 5,000. H US Bureau of Reclamation (non-voting City of American Canyon 4,000.	Colusa County Water District	32,111.	San Bernardino Valley Muni WD	30,000.
Proberta Water District 3,000. Santa Clarita Water Agency 5,000. Wheeler Ridge-Maricopa WSD 20,000. Western Canal Water District 3,500. Zone 7 Water Agency 20,000. Westside Water District 25,000. M Water District 500. Cortina Water District 300. Davis Water District 2,000. Davis Water District 2,000. Davis Water District 5,000. Davis Water District 5,000. Davis Water District 5,000. Davis Water District 5,000. Authority: 15 Agencies 4 US Bureau of Reclamation (non-voting 1,000. H Dept of Water Resources (non-vo	Glenn-Colusa Irrigation District	20,000.	San Gorgonio Pass Water Agency	14,000.
Reclamation District 108 20,000. Wheeler Ridge-Maricopa WSD 20,000. Vestern Canal Water District 3,500. Zone 7 Water Agency 20,000. Westside Water District 500. Cortina Water District 300. Davis Water District 2,000. Davis Water District 2,000. Davis Water District 5,000. Authority: 15 Agencies Dunnigan Water District 5,000. + US Bureau of Reclamation (non-voting LaGrande Water District 1,000. + Dept of Water Resources (non-voting District Cortina Water District 1,000. + Dept of Water Resources (non-voting District Cortina Water District 1,000. + Dept of Water Resources (non-voting District Cortina Water District 1,000. + Dept of Water Resources (non-voting District Cortina Water District 1,000. + Dept of Water Resources (non-voting District Cortina Water District 1,000. + Dept of Water Resources (non-voting District Cortina Water District 1,000. + Dept of Water Resources (non-voting District Cortina Water District 1,000. + Dept of Water Resources (non-voting District Cortina Water District 1,000. + Dept of Water Resources (non-voting District Cortina Water District 1,000. + Dept of Water Resources (non-voting District Cortina Water District 1,000. + Dept of Water Resources (non-voting District Cortina Water District 1,000. + Dept of Water Resources (non-voting District Cortina Water District 1,000. + Dept of Water Resources (non-voting District Cortina Water District 1,000. + Dept of Water Resources (non-voting District Cortina Water District 1,000. + Dept of Water Resources (non-voting District Cortina Water District 1,000. + Dept of Water Resources (non-voting District Cortina Water District 1,000. + Dept of Water Resources (non-voting District Cortina Water District 1,000. + Dept of Water Resources (non-voting District Cortina Water District 1,000. + Dept of Water Resources (non-voting District Cortina Water District 1,000. + Dept of Water Resources (non-voting District 1,000. + Dept of Water Resources (non-voting District 1,000. + Dept of Water Resources (non-voting District 1,000. + Dept of Water Resour	Orland-Artois Water District	20,000.	Santa Clara Valley Water District	24,000.
Vestern Canal Water District Vestside Water District V	Proberta Water District	3,000.	Santa Clarita Water Agency	5,000.
Vestside Water District M Water District 500. Cortina Water District 2,000. Davis Water District 2,000. Dunnigan Water District 2,000. Dunnigan Water District 5,000. 4 US Bureau of Reclamation (non-voting active) American Canyon 4,000.	Reclamation District 108	20,000.	Wheeler Ridge-Maricopa WSD	20,000.
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Davis Water District 2,000. Dunnigan Water District 5,000. Dunnigan Water District 1,000.			10141 4010 111	10 1, 1221
Dunnigan Water District 2,000. Dunnigan Water District 5,000. + US Bureau of Reclamation (non-votin 4,000. + Dept of Water Resources (non-voting 4,000.			Authority:	5 Agencies
aGrande Water District 1,000. + Dept of Water Resources (non-voting		*	•	_
City of American Canyon 4,000.	ŭ			` _
1000		*	+ Dept of Water Resource	es (non-voting)
Carter MWC 1,000. Combined: 37 Agencies	•	•		
	City of American Canyon Carter MWC	•	·	`

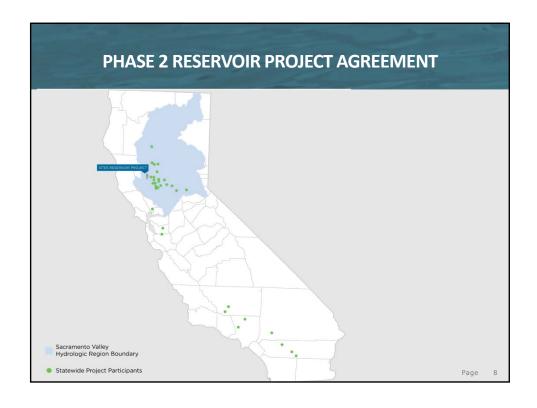
July 29 Update: Added Reclamation & DWR as non-voting participants











PHASE 2 RESERVOIR PROJECT AGREEMENT

GENERAL

- Project Members will execute Phase 2 Agreements in November 2018
- Phase 2 Agreement based on Phase 1 Agreement
- Each Project Member will have a Participation Percentage for Phase 2 based on acre feet of water
- Conversion of Class 2 Water to Class 1 Water will include an additional payment
- Term of Phase 2 Agreement will extend to earlier of 2025 or completion of Phase 2
- Reservoir Committee continues under Phase 2 Agreement

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PHASE 2 RESERVOIR PROJECT AGREEMENT

FINANCING PROVISIONS

- All Phase 2 Costs (net of CWC and USBR contribution)
 will be financed by the Authority
- Currently anticipate financing will be a revolving line of credit with bank
- Project Members will pay interest only on the line of credit through Phase 2

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PHASE 2 RESERVOIR PROJECT AGREEMENT

BILLING PROVISIONS

- Authority will bill Project Members annually in advance
- Project Member's payments due January 15 of each year
- Project Member costs cannot be increased by more than
 25% to cover defaults
- If Project Member covers a default, it receives a pro rata share of the defaulter's Participation Percentage

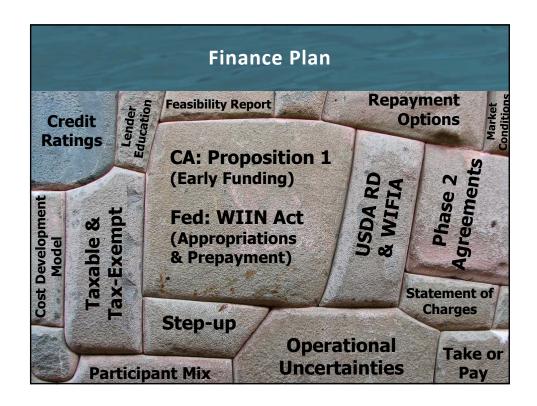
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PHASE 2 RESERVOIR PROJECT AGREEMENT

AT END OF PHASE 2:

- Interim financing refinanced by construction financing; or
- If Project does not proceed to construction, Project Member has choice of:
 - ✓ Paying off share of Phase 1 financing; or
 - ✓ Authority will refinance with long term debt

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Repayment (\$/acre-ft): Difference since 2015

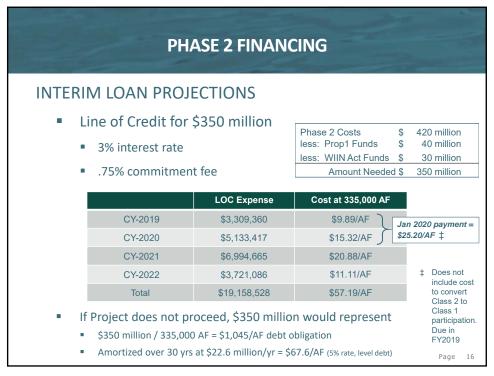
2015 Estimate:

- 1. "Alt C" (no water supplies in Sacramento Valley) & facilities sited by DWR
- 2. Priority of water for urban uses
- 3. Assumed operations with CVP and SWP
- 4. Assumption of water for the environment (pre-PPIC)
- 5. Reservoir fill based on "current" conditions & internal assessments
- 6. Direct Costs: "Contract Costs" + contingency.
 - No Authority costs
 - Incomplete estimate of mitigation
- 7. Dollars in year 2013
- Finance costs: 2015 market with assumptions for interim and construction financing (WIFIAbased + Prop 1) and capitalized interest.

2018 Estimate:

- 1. "Alt D" (water for Sacramento Valley) & increased mitigation & protections (birds)
- 2. Onboarding & pending rebalancing process
- 3. Includes input from CVP and SWP operators
- 4. Includes Prop 1 (pending decision) & federal interest (feasibility report & WIIN Act)
- 5. Insights gained from <u>public comments</u>, voluntary settlement, and early coordination
- 6. Direct Costs: "All in" & Risk Adjusted
 - + Cost estimate updated (USBR)
 - + Includes cost of potential delays
- 7. Dollars in year 2018 (Construction \$ > CPI)
- Finance costs: Current market using interim and construction <u>finance plan</u> (WIFIA, USDA, Prop 1, WIIN, & reservoir fill time)

PF	IASE 3-4 FIN	IANCIAL N	10DELING	
PRELIMINARY	RESULTS BASED	ON 2014 COST	ESTIMATES o	f \$4,108 million
	\$	AF	\$/AF	
Annual Fixed Del	bt Service Cost per A	cre Foot		
in 2015 Dollars	212,010,218	322,329	658	
in 2018 Dollars	238,482,662	322,329	740	
in 2032 Dollars	412,974,809	322,329	1,281	■ Fixed throu
Annual O&M Cos	st per Acre Foot			repayment
in 2015 Dollars	29,509,587	322,329	92	period
in 2018 Dollars	31,315,810	322,329	97	
in 2032 Dollars	41,320,546	322,329	128	
Annual Revenue	per Acre Foot			
in 2015 Dollars	35,018,475	322,329	109	
in 2018 Dollars	37,161,886	322,329	115	
in 2032 Dollars	49,161,942	322,329	153	
Total Cost per Ac	re Foot			
in 2015 Dollars	206,501,330	322,329	641	
in 2018 Dollars	232,636,586	322,329	722	
in 2032 Dollars	405,133,413	322,329	1,257	



July 29 Update: First payment for work financed is due in Jan, not Nov 2020.

PHASE 3-4 FINANCIAL MODELING

GENERAL ASSUMPTIONS AND INPUTS

- Total Costs to Be Financed (Ph2-4) are \$6,464 million (nominal dollars)
 - Construction costs escalated from 2015 estimate at 15%/7yrs average
 - · Construction costs escalated to support delays and environmental risk
 - All other costs escalated approximately 2%/year based on current Bureau of Labor Statistics estimates
- CA State/Proposition 1 Funding at \$816.6 million (2015 dollars)
- Federal/WIIN Act Funding at \$1,002 million (15.5% of costs in nominal dollars)
- Midrange (intermediate) Hydrology (1974-2003 CALSIM runs)
- Electrical generation revenue exceeds pumping costs due to optimized operation of pumping and releases and pump-storage capability
- Stress Cases to be reviewed
 - · Minimum(dry) hydrology (1922-51 CALSIM runs)
 - · No electrical generation revenue

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July 29 Update: Updated Prop 1 to reflect July 24 decision. Added dollar year being used for Proposition 1 and Federal participation

PHASE 3-4 FINANCIAL MODELING EXPENSES AND REVENUES Allocated Calculated **Expenses** Annual O&M Annual charge Per AF allotment Annual A&G Annual charge Per AF allotment Fill O&M Cost Annual charge Per AF allotment Pumping to Fill Per AF Per AF Filled Wheeling to Fill Per AF Per AF Filled Wheeling to Release Per AF Per AF Released Revenues Fill & Release Cost Reimbursements Per AF Per AF Filled/Release Power Generation Per AF Per AF Released Operating Account Interest Earnings Annual amount Per AF allotment Debt Service Reserve Fund Interest Earnings To Participants AF allotment Annual amount Operating Account Overage Return Annual amount To Participants AF allotment Page

PHASE 3-4 FINAN	ICIAL MO	DELING		
PERMANENT FINANCING				
 Assumed 5% interest rate (3.875) 	% for USDA loa	n)		
 Semi-annual interest payments i 	n Jun/Dec, prin	cipal payment in D	ec	
 Level Debt Service 				
 First bond issue pays of interim I 	.oan			
	40 Years w/ 10 years Capitalized Interest	40 Years w/ No Capitalized Interest		
	(\$ millions)	(\$ millions)		
Bonds Issued for Project Costs	4,560	4,560		
Bonds Issued for Capitalized Interest	2,073	-		
Total Bond Principal	6,633	4,560		
Total Interest Paid	6,321	5,402		
Total Bond Debt Service	12,954	9,962		
			Page	

			IAL MODEL		
PRELIMINA	RY RESULTS:	CURRENT COS	T ESTIMATES of S	6,464 mil	lion *
	10 yrs Capitaliz			nd Interest	
	Only Payment	s 2032-61	Payments fr	om 2022-61	
	\$	\$/AF	\$	\$/AF	
Annual Dahi C		(335,000 AF)		(335,000 AF)	
Annual Debt S		700	467 450 500	500	
in 2015 Dollars	265,672,097	793 867	167,452,533	546	
in 2018 Dollars in 2032 Dollars	290,307,074 439,115,497	1,311	182,979,904 276,773,522	826	
in 2032 Dollars	439,115,497	1,311	276,773,522	020	
Annual O&M Co	et				
in 2015 Dollars	31,460,191	94	30,963,885	92	
in 2018 Dollars	33,385,807	100	32,951,459	98	
in 2032 Dollars	44.051.863	131	44,051,863	131	
	i i				
Annual Revenue	9				
in 2015 Dollars	43,318,411	129	40,454,509	121	
in 2018 Dollars	45,567,565	136	42,646,782	127	
in 2032 Dollars	57,709,134	172	54,556,079	163	
Total Cost					* In n
in 2015 Dollars	253,813,878	758	157,961,908	472	* dolla
in 2018 Dollars	278,125,316	830	173,284,581	517	201
in 2032 Dollars	425,458,226	1,270	266,269,306	795	

July 29 Update: Table Headers. Left is repayment of interest only during construction and right is not just capitalized interest, but repayment of principle and interest

Working Draft, Subject to Change

PHASE 3-4		40 Yrs, 10 y	rs Capitali:	zed Interest		40 Years, N	lo Capitaliz	ed Interest	100	9
FINANCIAL	Year	Principal	Interest	Total DS		Principal	Interest	Total DS	w	
MODELING		(\$millions)	(\$millions)	(\$millions)		(\$millions)	(\$millions)	(\$millions)		
MODELING	2022					12	19	32		
	2022					15	66	81		
	2024					21	85	105		
	2025					27	111	138		
	2026					34	138	172		
Comparison of	2027					42	164	206		
Companison of	2028					51	190	241		
	2029					58	211	268		
Capitalized	2030 2031	-				60 63	216 213	277 277		
Capitanzea	2031	106	333	439	First Water Deliveries	66	213	277		
and the second second	2032	111	328	439	riist water Deliveries	70	207	277		
Interest	2034	116	323	439		73	204	277		
meerese	2035	122	317	439		77	200	277		
	2036	128	311	439		80	196	277		
	2037	134	305	439		84	193	277		
	2038	140	299	439		88	188	277		
VC	2039	147	292	439		93	184	277		
VS	2040	154	285	439		97	180	277		
	2041 2042	162	277 269	439		102	175 170	277		
	2042	170 178	269	439 439		107 112	170	277 277		
	2043	187	252	439		117	159	277		
	2045	196	243	439		123	154	277		
No Capitalized	2046	205	234	439		129	148	277		
110 capitanzea	2047	215	224	439		135	141	277		
Lastin and all	2048	226	213	439		142	135	277		
Interest	2049 2050	237 248	203 191	439 439		149 156	128 121	277 277		
	2050	260	179	439		164	113	277		
	2052	273	166	439		172	105	277		
	2053	286	153	439		180	97	277		
	2054	300	139	439		189	88	277		
	2055	315	124	439		198	79	277		
	2056 2057	330 346	109 93	439 439		208 218	69 59	277 277		
	2057	363	76	439		229	48	277		
	2059	381	58	439		240	37	277		
	2060	399	40	439		252	25	277		
	2061	199	20	220		125	13	138		
	Total	6,633	6,321	12,954		4,560	5,402	9,962	Page	21

