

Annual totals:	Distance travelled per year for admissions (km)	Fuel used per year for admissions (Litres)	Annual volunteer ambulance officer time (hours)	Annual total Visitor distance (km)	Annual total Visitor transport cost
	2,835,045	311,855	36,663	5,258,920	\$3,260,530

Costs:		
to Ambulance	\$2,456,866	(includes fuel cost + cost of ambulance officer time)
to visitors	\$3,260,530	(does not include the intangible costs of removal of patient at distance from relatives, or of cost to relatives of absence from business while travelling)
Total:	\$5,717,396	

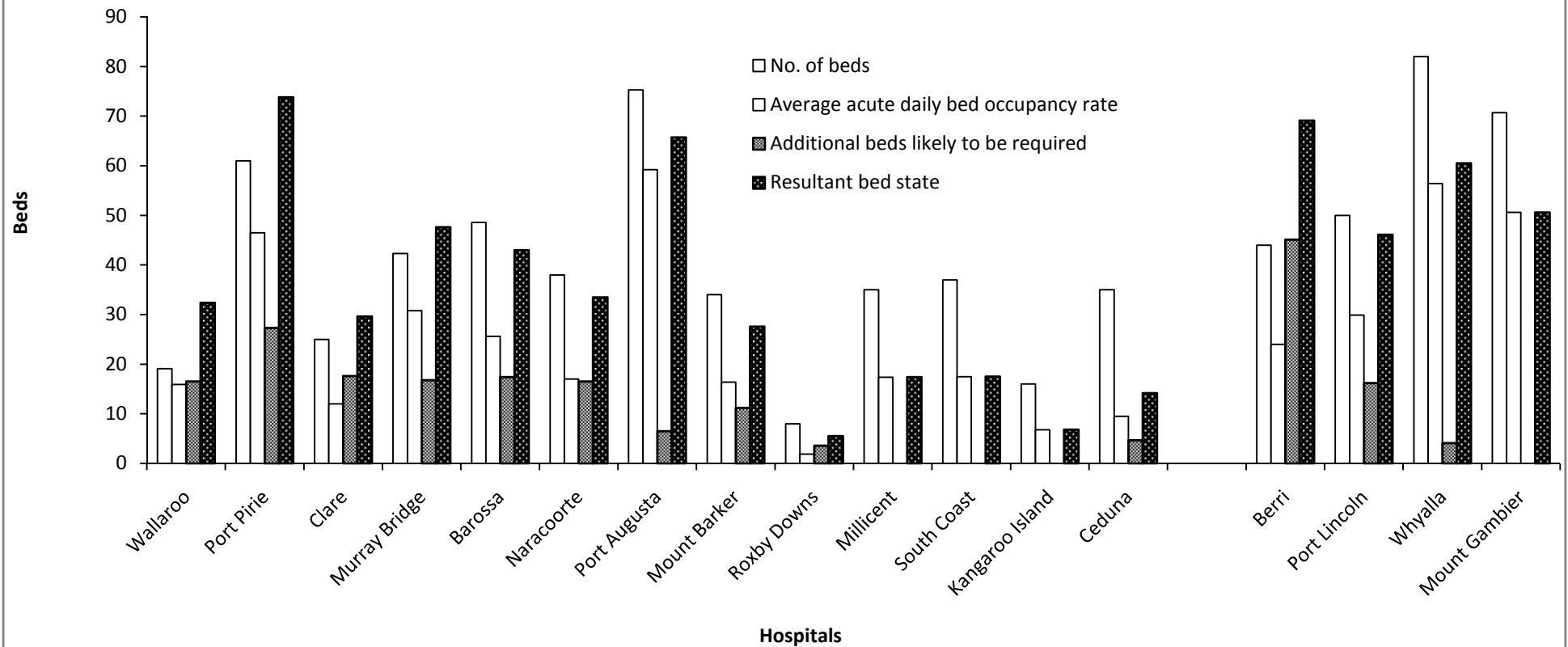
Capital works Implications:

Berri	Enlargement to 65 beds will still be 17 beds short of requirement and Berri Hospital will have no capacity for any immediate emergency admission at this size. There is a requirement to increase from 44 beds to 82 beds, not to 65.
Wallaroo	There is a requirement to construct an additional 20-bed unit to meet the anticipated demand at Wallaroo.
Port Pirie	There is a requirement to construct an additional 26-bed unit to meet the anticipated demand at Port Pirie.
Clare	There is a requirement to construct an additional 10-bed unit to meet the anticipated demand at Clare.
Murray Bridge	There is a requirement to construct an additional 14-bed unit to meet the anticipated demand at Murray Bridge.
Barossa, Naracoorte, Port Augusta and Port Lincoln	Barossa, Naracoorte and Port Augusta Country Community Hospitals and Port Lincoln Country General Hospital will still be dangerously above the 85% average bed occupancy rate, meaning that these hospitals, if their bed capacities are not expanded, will have insufficient capacity to cope with patients requiring immediate admission and will frequently be overloaded.

Implications

Berri	<p>The Riverland Country General Hospital in Berri has been allocated \$41 million to redevelop the hospital and increase the number of acute beds from 44 beds to 'approximately 65'.</p> <p>After reallocation of acute beds to account for the average daily bed occupancy for Barmera, Loxton, Pinnaroo, Renmark and Waikerie being transferred to Berri, the resultant average acute daily bed occupancy at Berri will be 69.1</p> <p>The daily risk of insufficient hospital capacity for patients requiring immediate admission, is discernible when average bed occupancy rates exceed 85%</p> <p>In order to meet this requirement, ie for 69.1 beds occupied to be less than 85% of total beds, Berri Hospital would need to have 82 beds.</p> <p>Thus enlargement to 65 beds will still be 17 beds short of requirement and Berri Hospital will have no capacity for any immediate emergency admission at this size. There is a requirement therefore to increase from 44 beds to 82 beds, not to 65.</p>
Walleroo	<p>The Plan has no allocation of funding for capital works to enlarge the number of available beds at Wallaroo. Average available acute beds is 19.1; average daily bed occupancy at present is 15.9</p> <p>transferred to Wallaroo, an average of 16.5 additional acute beds will be required per day, taking the total daily bed</p> <p>The daily risk of insufficient hospital capacity for patients requiring immediate admission, is discernible when average bed occupancy rates exceed 85%</p> <p>In order to meet this requirement, ie for 32.4 beds occupied to be less than 85% of total beds, Wallaroo Hospital would need to have 39 beds.</p> <p>Thus there is a requirement to construct an additional 20-bed unit to meet the anticipated demand at Wallaroo</p>
Port Pirie	<p>\$12 million funding has been allocated to upgrade primary health care services at Port Pirie Country Community Hospital, but this does not address the need for additional capital works expenditure that will be required to construct wards with additional beds.</p> <p>Average available acute beds is 61; average daily bed occupancy at present is 46.5</p> <p>After reallocation of acute beds to account for the average daily bed occupancy for Booleroo Centre, Crystal Brook, Jamestown, Laura and Port Broughton being transferred to Port Pirie (Orroroo is considered more likely to transfer its beds to Port Augusta, and Peterborough to transfer to Clare), an average of 27.3 additional acute beds will be required per day, taking the total daily bed occupancy to 73.8.</p> <p>The daily risk of insufficient hospital capacity for patients requiring immediate admission, is discernible when average bed occupancy rates exceed 85%</p> <p>In order to meet this requirement, ie for 73.8 beds occupied to be less than 85% of total beds, Port Pirie Country Community Hospital would need to have 87 beds.</p> <p>Thus there is a requirement to construct an additional 26-bed unit to meet the anticipated demand at Port Pirie.</p>
Clare	<p>No funding has been allocated for capital works at Clare Country Community Hospital, so this does not address the need for construction of wards with additional beds.</p> <p>Average available acute beds is 25; average daily bed occupancy at present is 12.</p> <p>After reallocation of acute beds to account for the average daily bed occupancy for Balaklava, Burra, Peterborough, Riverton and Snowtown being transferred to Clare, an average of 17.6 additional acute beds will be required per day, taking the total daily bed occupancy to 29.6.</p> <p>The daily risk of insufficient hospital capacity for patients requiring immediate admission, is discernible when average bed occupancy rates exceed 85%</p> <p>In order to meet this requirement, ie for 29.6 beds occupied to be less than 85% of total beds, Clare Country Community Hospital would need to have 35 beds.</p> <p>Thus there is a requirement to construct an additional 10-bed unit to meet the anticipated demand at Clare.</p>
Murray Bridge	<p>No funding has been allocated for capital works at Murray Bridge Country Community Hospital, so this does not address the need for construction of wards with additional beds.</p> <p>Average available acute beds is 42.3; average daily bed occupancy at present is 30.8</p> <p>After reallocation of acute beds to account for the average daily bed occupancy for Karoonda, Lameroo, Mannum, Meningie and Taillem Bend being transferred to Murray Bridge Country Community Hospital, an average of 16.8 additional acute beds will be required per day, taking the total daily bed occupancy to 47.6.</p> <p>The daily risk of insufficient hospital capacity for patients requiring immediate admission, is discernible when average bed occupancy rates exceed 85%</p> <p>In order to meet this requirement, ie for 47.6 beds occupied to be less than 85% of total beds, Murray Bridge Country Community Hospital would need to have 56 beds.</p> <p>Thus there is a requirement to construct an additional 14-bed unit to meet the anticipated demand at Murray Bridge.</p> <p>This will still leave Barossa, Naracoorte and Port Augusta Country Community Hospitals and Port Lincoln Country General Hospital dangerously above the 85% average bed occupancy rate, meaning that these hospitals, if their bed capacities are not expanded, will have insufficient capacity to cope with patients requiring immediate admission and will frequently be overloaded</p>
Barossa, Naracoorte, Port Augusta and Port Lincoln	

Bed States in Country Community and Hub Hospitals after re-allocation from GP+ Hospitals



"Country Community Hospitals"	No. of beds	Average acute daily bed occupancy rate	Additional beds likely to be required	Resultant bed state	Percentage beds used
Walleroo	19.1	15.9	16.5	32.4	170%
Port Pirie	61	46.5	27.3	73.8	121%
Clare	25	12	17.6	29.6	118%
Murray Bridge	42.3	30.8	16.8	47.6	113%
Barossa	48.6	25.6	17.4	43	88%
Naracoorte	38	17	16.5	33.5	88%
Port Augusta	75.3	59.2	6.5	65.7	87%
Mount Barker	34	16.4	11.2	27.6	81%
Roxby Downs	8	1.9	3.6	5.5	69%
Millicent	35	17.4	0	17.4	50%
South Coast	37	17.5	0	17.5	47%
Kangaroo Island	16	6.8	0	6.8	43%
Ceduna	35	9.5	4.7	14.2	41%
Berri	44	24	45.1	69.1	157%
Port Lincoln	50	29.9	16.2	46.1	92%
Whyalla	82	56.4	4.1	60.5	74%
Mount Gambier	70.7	50.6	0	50.6	72%

Transfer of patients from 'GP+E' Hospitals to Community Hospitals.

"GP Emergency Plus Hospitals"	Next nearest hospital	Nearest community hospital	Nearest regional hospital	Distance to Adelaide	Average daily bed occupancy rate	Most Likely destination Community Hospital	Most Likely destination Hub Hospital	Average Length of stay	Average admission rate / day	ambulance distance travelled for admission	avg km travelled per day for admission	Litres of fuel per day for admissions	Hours of volunteer ambulance officer time	Visitor distance travelled	Visitor transport cost
Mount Pleasant,	19	50	187	54	4.5	Angaston	Adelaide	2.5	1.8	100	180	19.8	1.9	200	\$124.00
Barmera,	15	15	15	220	8.7	Berri	Berri	4.7	1.9	30	55.53	6.11	1.23	60	\$37.20
Loxton,	21	21	21	252	12.3	Berri	Berri	3.9	3.2	42	132.46	14.57	2.00	84	\$52.08
Pinnaroo,	40	125	125	241	1.3	Berri	Berri	3.7	0.4	250	87.84	9.66	2.68	500	\$310.00
Renmark,	20	20	20	252	10.8	Berri	Berri	2.9	3.7	40	148.97	16.39	2.26	80	\$49.60
Waikerie,	48	62	62	173	12	Berri	Berri	3.4	3.5	124	437.65	48.14	3.00	248	\$153.76
Streaky Bay,	110	110	293	695	3.7	Ceduna	Port Lincoln	4.5	0.8	220	180.89	19.90	2.61	440	\$272.80
Wudinna,	102	210	212	563	1	Ceduna	Whyalla	3.5	0.3	420	120.00	13.20	4.34	840	\$520.80
Balaklava,	54	54	237	92	6.2	Clare	Adelaide	3.0	2.1	108	223.20	24.55	2.11	216	\$133.92
Burra,	41	41	190	155	1.6	Clare	Adelaide	2.8	0.6	82	46.86	5.15	1.11	164	\$101.68
Peterborough,	36	108	206	242	5.2	Clare	Adelaide??	4.4	1.2	216	255.27	28.08	2.75	432	\$267.84
Riverton,	30	46	206	93	4	Clare	Adelaide	4.3	0.9	92	85.58	9.41	1.39	184	\$114.08
Snowtown,	50	51	236	145	0.6	Clare	Adelaide	3.4	0.2	102	18.00	1.98	1.11	204	\$126.48
Gumeracha,			206	36	2.6	Mount Barker	Adelaide	2.9	0.9	0	0.00	0.00	0.45	0	\$0.00
Strathalbyn,	24	45	241	56	8.6	Mount Barker	Adelaide	2.7	3.2	90	286.67	31.53	2.49	180	\$111.60
Karoonda,	65	65	131	141	0.6	Murray Bridge	Adelaide??	3.2	0.2	130	24.38	2.68	1.39	260	\$161.20
Lameroo,	40	129	165	201	2.6	Murray Bridge	Adelaide??	4.4	0.6	258	152.45	16.77	2.88	516	\$319.92
Mannum,	32	32	189	108	5.9	Murray Bridge	Adelaide	2.4	2.5	64	157.33	17.31	1.87	128	\$79.36
Meningie,	77	77	300	149	4.9	Murray Bridge	Adelaide	2.9	1.7	154	260.21	28.62	2.38	308	\$190.96
Tallem Bend,	25	25	180	96	2.8	Murray Bridge	Adelaide	2.8	1.0	50	50.00	5.50	1.00	100	\$62.00
Bordertown,	82	82	182	271	8.2	Naracoorte	Mt Gambier	3.0	2.7	164	448.27	49.31	3.01	328	\$203.36
Kingston,	95	95	157	294	4	Naracoorte	Mt Gambier	3.9	1.0	190	194.87	21.44	2.41	380	\$235.60
Penola,	51	51	51	383	4.3	Naracoorte	Mt Gambier	5.2	0.8	102	84.35	9.28	1.43	204	\$126.48
Hawker,	66	107	182	370	1.5	Port Augusta	Whyalla??	7.0	0.2	214	45.86	5.04	2.25	428	\$265.36
Orroroo,	36	143	170	263	2.1	Port Augusta	Whyalla??	3.8	0.6	286	158.05	17.39	3.14	572	\$354.64
Quorn,	41	41	116	333	2.9	Port Augusta	Whyalla	3.6	0.8	82	66.06	7.27	1.22	164	\$101.68
Cleve,	42	149	149	530	3.7	Port Lincoln	Port Lincoln	5.8	0.6	298	190.10	20.91	3.30	596	\$369.52
Cummins,	41	63	63	638	4.4	Port Lincoln	Port Lincoln	3.8	1.2	126	145.89	16.05	1.84	252	\$156.24
Ellistown,	126	167	167	695	1.4	Port Lincoln	Port Lincoln	4.9	0.3	334	95.43	10.50	3.48	668	\$414.16
Tumby Bay,	41	49	49	600	6.7	Port Lincoln	Port Lincoln	5.4	1.2	98	121.59	13.38	1.60	196	\$121.52
Booeroo Centre,	43	65	170	253	4.7	Port Pirie	Whyalla	4.0	1.2	130	152.75	16.80	1.89	260	\$161.20
Crystal Brook,	24	29	187	197	5.4	Port Pirie	Adelaide??	3.1	1.7	58	101.03	11.11	1.45	116	\$71.92
Jamestown,	39	66	224	207	7	Port Pirie	Adelaide	4.0	1.8	132	231.00	25.41	2.20	264	\$163.68
Laura,	24	41	199	229	3.1	Port Pirie	Whyalla??	4.0	0.8	82	63.55	6.99	1.21	164	\$101.68
Port Broughton,	41	49	225	171	7.1	Port Pirie	Adelaide	4.7	1.5	98	148.04	16.28	1.74	196	\$121.52
Coober Pedy,	450	450	611	844	3.6	Roxby Downs	Whyalla	2.9	1.2	900	1117.24	122.90	9.62	1800	\$1,116.00
Eudunda,	27	71	162	103	2.8	Tanunda??	Adelaide	6.3	0.4	142	63.11	6.94	1.64	284	\$176.08
Kapunda,	27	70	171	76	10.1	Tanunda??	Adelaide	3.5	2.9	140	404.00	44.44	2.84	280	\$173.60
Maitland,	52	52	321	167	8.4	Walleroo	Adelaide	3.8	2.2	104	229.89	25.29	2.15	208	\$128.96
Minlaton,	30	98	367	198	0	Walleroo	Adelaide	0.0		196	0.00	0.00	1.96	392	\$243.04
Yorke town	30	128	400	226	8.1	Walleroo	Adelaide	3.4	2.4	256	609.88	67.09	3.75	512	\$317.44
Cowell	42	107	107	487	1.8	Whyalla	Whyalla	5.1	0.4	214	75.53	8.31	2.32	428	\$265.36
Kimba,	102	143	143	461	2.3	Whyalla??	Whyalla	5.6	0.4	286	117.46	12.92	3.07	572	\$354.64

total: 203.5 Daily totals: 7,767.25 854.40 100.45 14,408.00 \$8,932.96

Assumptions made:				
Figures used throughout are the figures supplied by the South Australian Government in "South Australia's Country Health Care Plan 2007-2016".				
"Average daily bed occupancy rate" is the average number of beds occupied in a 24 hour period.				
(average admission rate per day) can be approximated as:	(AVERAGE DAILY BED OCCUPANCY RATE) / (AVERAGE LENGTH OF STAY)			
AMBULANCE DISTANCE TRAVELLED FOR ADMISSION:	TWICE THE DISTANCE FROM LOSING HOSPITAL TO GAINING HOSPITAL			
avg km travelled per day for admission:	(ambulance distance travelled for admission) * (average admission rate per day).			
Litres of fuel used per day for admissions calculated at ambulance rate:		fuel consumption =	11 L/100km	
Hours of volunteer ambulance officer time:	("x" hours to cover before and after call-out) + ("y" hours per 100km travelled)	x =	0.5 hours	
Visitor distance travelled:	assumes 'z' visits while inpatient, from losing town to Community Hospital town, + 1 trip to retrieve patient from hospital at the end of hospitalisation.	y =	1 hours	
		z =	1 visit	
Visitor transport cost :		cost =	\$0.62 per km	
Fuel cost (\$ / litre):			\$2.00 per litre	
Ambulance officer time value	(2 officers required per trip)	at	\$25.00 per hour	

Possible requirements for transfer to Hub Hospitals:	Occupied beds at risk of transfer per day to hubs from GP+Es:
Adelaide	99
Berri	45.1
Mt Gambier	16.5
Port Lincoln	19.9
Whyalla	23
Total:	203.5

Transfers that may be required to the following Country Community Hospitals:	Total Daily Beds in GP+E Hospitals requiring transfers to these CCHs
Angaston	4.5
Berri	45.1
Ceduna	4.7
Clare	17.6
Mt Barker	11.2
Murray Bridge	16.8
Naracoorte	16.5
Port Augusta	6.5
Port Lincoln	16.2
Port Pirie	27.3
Roxby Downs	3.6
Tanunda	12.9
Walleroo	16.5
Whyalla	4.1
Total:	203.5