

WACR - selected areas, CANCER INCIDENT CASES (Includes skin SCC/BCC)  
 Ref T130410d.

Cookernup locality

YEAR	Males	Females	Total
1998			
2000			
2001			
2002			
2004			
2005			
2006			
2007			5
2008			
2009			5
2010			
2011			
2012			
2013			
<b>Total</b>	<b>20</b>	<b>19</b>	<b>39</b>

Cookernup locality

CATYPE	Males	Females	Total
C16			
C22			
C33			
C50			
C61			
C64			
C65			
C73			
C74			
CRC			
CUT			
HMS			
LLC			
LMA			
MEL			
P			
UNK			
YHO			
YNB			
<b>Total</b>	<b>20</b>	<b>19</b>	<b>39</b>

  

Stomach
Liver & intrahepatic bile ducts
Lung, bronchus & trachea
Breast
Prostate
Kidney
Bladder & urinary tract
Thyroid gland
Adrenal gland
Colorectal cancer
<b>Skin SCC/BCC</b>
Myelodysplastic syndromes
Leukaemia, lymphoid, chronic
Leukaemia, myeloid, acute
Melanoma (skin)
Myeloma & plasma cell tumours
Unknown primary site
Lymphoma, Hodgkin
Lymphoma, non-Hodgkin, mature B cell

Hamel locality

YEAR	Males	Females	Total
1994			
1995			
1996			
1997			
1998			
2003			
2005			
2007			

Year	Males	Females	Total
2009			
2010			
2011			
2012			
<b>Total</b>	<b>14</b>	<b>6</b>	<b>20</b>

Hamel locality			
CATYPE	Males	Females	Total
C15			
C22			
C33			
C49			
C50			
C61			
C73			
CRC			
CUT			
HCP			
HCX			
MEL			
UNK			
YNB			
<b>Total</b>	<b>14</b>	<b>6</b>	<b>20</b>

- Oesophagus
- Liver & intrahepatic bile ducts
- Lung, bronchus & trachea
- Connective & other soft tissues
- Breast
- Prostate
- Thyroid gland
- Colorectal cancer
- Skin SCC/BCC**
- Polycythaemia rubra vera
- Chronic myeloproliferative disease NOS
- Melanoma (skin)
- Unknown primary site
- Lymphoma, non-Hodgkin, mature B cell

Wagerup locality		
YEAR	Males	Females
2001		
<b>Total</b>		

Wagerup locality		
CATYPE	Males	Females
MEL		
<b>Total</b>		

Yarloop locality			
YEAR	Males	Females	Total
1993			
1994			6
1995			
1996			
1997			6
1998			
1999			5
2000			5
2001			
2002			
2003			
2004			
2005			
2006			6
2007			
2008			6

2009	[Redacted]		7
2010	[Redacted]		[Redacted]
2011	[Redacted]		[Redacted]
2012	[Redacted]		5
2013	[Redacted]		[Redacted]
Total	49	34	83

Yarloop locality

CATYPE	Males	Females	Total	
C00	[Redacted]	[Redacted]	[Redacted]	Lip, gum & mouth
C09	[Redacted]	[Redacted]	[Redacted]	Pharynx
C16	[Redacted]	[Redacted]	[Redacted]	Stomach
C17	[Redacted]	[Redacted]	[Redacted]	Small intestine
C33	[Redacted]	[Redacted]	10	Lung, bronchus & trachea
C50	0	7	7	Breast
C52	[Redacted]	[Redacted]	[Redacted]	Vagina
C53	[Redacted]	[Redacted]	[Redacted]	Cervix
C54	[Redacted]	[Redacted]	[Redacted]	Uterus (corpus)
C61	16	0	16	Prostate
C64	[Redacted]	[Redacted]	[Redacted]	Kidney
C65	[Redacted]	[Redacted]	[Redacted]	Bladder & urinary tract
C71	[Redacted]	[Redacted]	[Redacted]	Brain
C73	[Redacted]	[Redacted]	[Redacted]	Thyroid gland
CRC	[Redacted]	[Redacted]	5	Colorectal cancer
CUT	[Redacted]	[Redacted]	7	<b>Skin SCC/BCC</b>
HMS	[Redacted]	[Redacted]	[Redacted]	Myelodysplastic syndromes
LLC	[Redacted]	[Redacted]	[Redacted]	Leukaemia, lymphoid, chronic
MEL	[Redacted]	[Redacted]	6	Melanoma (skin)
MES	[Redacted]	[Redacted]	[Redacted]	Mesothelioma
P	[Redacted]	[Redacted]	[Redacted]	Myeloma & plasma cell tumours
UNK	[Redacted]	[Redacted]	[Redacted]	Unknown primary site
YHO	[Redacted]	[Redacted]	[Redacted]	Lymphoma, Hodgkin
YNB	[Redacted]	[Redacted]	[Redacted]	Lymphoma, non-Hodgkin, mature B cell
Total	49	34	83	

Warroona locality

YEAR	Males	Females	Total
1993	[Redacted]	[Redacted]	9
1994	9	6	15
1995	[Redacted]	[Redacted]	10
1996	[Redacted]	[Redacted]	12
1997	8	6	14
1998	8	6	14
1999	[Redacted]	[Redacted]	9
2000	[Redacted]	[Redacted]	13
2001	9	6	15
2002	10	8	18
2003	14	6	20
2004	8	8	16
2005	13	7	20
2006	10	12	22
2007	9	5	14
2008	15	10	25
2009	13	7	20

2010	11	10	21
2011	8	8	16
2012	8	9	17
2013	9	5	14
Total	193	141	334

Waroona locality

CATYPE	Males	Females	Total
C00			8 Lip, gum & mouth
C07			Parotid gland
C09			Pharynx
C15			5 Oesophagus
C16			7 Stomach
C17			Small intestine
C21			Anus
C22			Liver & intrahepatic bile ducts
C23			Gallbladder & bile ducts
C25			6 Pancreas
C32			Larynx
C33	21	10	31 Lung, bronchus & trachea
C50			37 Breast
C51			Vulva
C52			Vagina
C53			5 Cervix
C54			7 Uterus (corpus)
C56			Ovary
C60			Penis
C61	50	0	50 Prostate
C64			7 Kidney
C65	9	0	9 Bladder & urinary tract
C71			6 Brain
C73			5 Thyroid gland
C74			Adrenal gland
CRC	20	22	42 Colorectal cancer
CUT	16	7	23 <b>Skin SCC/BCC</b>
HCO			Other chronic MPDs
HCP			Polycythaemia rubra vera
HMR			Refractory anaemias/cytopaenias
HMS			Myelodysplastic syndromes
LLC			Leukaemia, lymphoid, chronic
LLO			Leukaemia, lymphoid, other/NOS
LMA			Leukaemia, myeloid, acute
MEL	16	10	26 Melanoma (skin)
MES			Mesothelioma
NMS			Non-melanoma skin cancer (exc. SCC/BCC)
P			Myeloma & plasma cell tumours
UNK	6	5	11 Unknown primary site
YHO			Lymphoma, Hodgkin
YNB			8 Lymphoma, non-Hodgkin, mature B cell
YNO			Lymphoma, non-Hodgkin, other/unclassif.
YNT			Lymphoma, non-Hodgkin, mature T/NK cell
<b>Total</b>	<b>193</b>	<b>141</b>	<b>334</b>

Waroona SLA

YEAR	Males	Females	Total
1993			9
1994	12	6	18
1995	8	5	13
1996	6	9	15
1997	10	8	18
1998	9	6	15
1999			9
2000			13
2001	11	6	17
2002	14	8	22
2003	17	8	25
2004	9	10	19
2005	17	8	25
2006	12	13	25
2007	13	7	20
2008	18	12	30
2009	20	11	31
2010	18	13	31
2011	10	10	20
2012	13	12	25
2013	10	6	16
<b>Total</b>	<b>246</b>	<b>170</b>	<b>416</b>

Waroona SLA

CATYPE	Males	Females	Total
C00			11 Lip, gum & mouth
C07			Parotid gland
C09			Pharynx
C15			6 Oesophagus
C16			8 Stomach
C17			Small intestine
C21			Anus
C22			Liver & intrahepatic bile ducts
C23			Gallbladder & bile ducts
C25			6 Pancreas
C30			Nasal cavity/sinuses, middle/inner ear
C32			Larynx
C33	22	11	33 Lung, bronchus & trachea
C38			Pleura, heart & mediastinum
C49			Connective & other soft tissues
C50			45 Breast
C51			Vulva
C52			Vagina
C53	0	6	6 Cervix
C54	0	8	8 Uterus (corpus)
C56			Ovary
C60			Penis
C61	63	0	63 Prostate
C62			Testis
C64			7 Kidney
C65	9	0	9 Bladder & urinary tract
C69			Eye & lacrimal gland
C71			6 Brain
C73	5	5	10 Thyroid gland

C74		
CRC	31	23
CUT	20	8
HCO		
HCP		
HCX		
HMR		
HMS		
LLC		
LLO		
LMA		
MEL	21	15
MES		
NMS	5	0
P		
UNK	6	6
YHO		
YNB		
YNO		
YNT		
Total	246	170

Adrenal gland	
54 Colorectal cancer	
28 Skin SCC/BCC	
Other chronic MPDs	
Polycythaemia rubra vera	
Chronic myeloproliferative disease NOS	
Refractory anaemias/cytopaenias	
5 Myelodysplastic syndromes	
Leukaemia, lymphoid, chronic	
Leukaemia, lymphoid, other/NOS	
Leukaemia, myeloid, acute	
36 Melanoma (skin)	
Mesothelioma	
5 Non-melanoma skin cancer (exc. SCC/BCC)	
Myeloma & plasma cell tumours	
12 Unknown primary site	
Lymphoma, Hodgkin	
10 Lymphoma, non-Hodgkin, mature B cell	
Lymphoma, non-Hodgkin, other/unclassif.	
Lymphoma, non-Hodgkin, mature T/NK cell	
416	

? Endorse "Final" plan 29/10.

**From:** [REDACTED]  
**Sent:** Tuesday, 29 October 2013 8:43 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Re: T130410h.xls

All looks OK to me - thanks, [REDACTED]

On 29 Oct 2013, at 4:51 pm, [REDACTED]@health.wa.gov.au> wrote:

thanks [REDACTED] - the map does help.

Perhaps we could strengthen the point that Yarloop/Wagerup sit on the border of Waroona and Harvey SLAs, and that while the cancer rate is higher in the Harvey SLA, it is not in the Waroona SLA.

Also if we could add in something about smoking rates in those SLAs, that might be helpful in terms of explaining the lung cancer rates.

[REDACTED] is happy to wait till tomorrow on this [REDACTED] thinks he can access the smoking data in the morning), and any other comments [REDACTED] may have

---

**From:** [REDACTED]  
**Sent:** Tuesday, 29 October 2013 4:22 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: T130410h.xls

See my suggestions below. I've attached a map of Harvey (B) if that helps.

---

**From:** [REDACTED]  
**Sent:** Tuesday, 29 October 2013 3:25 PM  
**To:** [REDACTED]  
**Subject:** RE: T130410h.xls

Thanks [REDACTED]

Gentlemen – bearing in mind the original media enquiry – here's my attempt to present this in simple form for [REDACTED] (please approve/amend as necessary):

WA Health has analysed statistics for both males and females from the Cancer Registry for 2008 and 2012 for the Shires of Waroona and Harvey (Part B), the smallest geographic grouping available.

The only statistically significant figure is for female cancers in Harvey, which are between 6% and 52% higher than the State average. The only cancer in Harvey showing a significantly higher rate than the State average was lung cancer among females.

As defined by the Australian Bureau of Statistics, the Harvey (B) Statistical Local Area extends from Yarloop and Wagerup in the north to Roelands in the south and from the coast in the west out to the locality of Hoffman in the east, with a population of 8,597 in 2011.

Can we add a brief explanation about the size and population of Harvey vs the immediate area around the [REDACTED]? I understand Harvey is quite large.

Regards,

[REDACTED] Principal Media Coordinator  
 Media and Communications | Communications Directorate

30/10/2013

## Department of Health

Level 3, B Block, 189 Royal Street, EAST PERTH WA 6004

E: [REDACTED]@health.wa.gov.au  
www.health.wa.gov.au

---

**From:** [REDACTED]  
**Sent:** Tuesday, 29 October 2013 3:11 PM  
**To:** [REDACTED]  
**Subject:** RE: T130410h.xls

Hi. A few words -

In summary: SIRRS for 2008-2012 (preliminary) combined show -  
Male all-cancers SIRR for Waroona SLA of 1.12 but this is not statistically significantly different from one.  
No individual types show significant elevation.  
Male all-cancers SIRR for Harvey Part B SLA of 1.02 but this is not statistically significantly different from one. No individual types show significant elevation.

Female all-cancers SIRR for Waroona SLA of 1.25 but this is not statistically significantly different from one.  
No individual types show significant elevation.  
Female all-cancers SIRR for Harvey Part B SLA of 1.27 which is, statistically, likely to be between 6% and 52% higher than the State average. The only cancer type showing a significantly higher rate than the State average was lung cancers.  
Regards, [REDACTED]

[REDACTED]  
Principal Medical Officer & Manager  
Western Australian Cancer Registry  
Dept of Health (WA)  
1st floor C Block, 189 Royal St  
EAST PERTH WA 6004

Website: <http://www.health.wa.gov.au/wacr/home/>Alternative e-mail: [WACANREG@HEALTH.WA.GOV.AU](mailto:WACANREG@HEALTH.WA.GOV.AU)  
(Data Collection & Analysis, Statutory & Non-Admitted, Data Integrity Directorate, Performance, Activity & Quality Division) Please consider the environment before printing this e-mail

---

**From:** [REDACTED]  
**Sent:** Tuesday, 29 October 2013 12:46 PM  
**To:** [REDACTED]  
**Subject:** T130410h.xls

[REDACTED] hi - SIRRS for just those 2 shires. Have to meet with [REDACTED] et al now, let me know if you think we should do more areas when convenient.

Regards, [REDACTED]



Final, 30/10 ??

**From:** [REDACTED]  
**Sent:** Wednesday, 30 October 2013 12:55 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: T130410h.xls

Great - I hope this defers the issue for a month or two!  
 Regards, [REDACTED]

**From:** [REDACTED]  
**Sent:** Wednesday, 30 October 2013 12:51 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: T130410h.xls

Dear [REDACTED]

I approve the following consolidated response

WA Health has analysed statistics for both males and females from the Cancer Registry for 2008 and 2012 for the Shires of Waroona and Harvey (Part B), the smallest geographic grouping available.

As defined by the Australian Bureau of Statistics, the Harvey (B) Statistical Local Area extends from Yarloop and Wagerup in the north to Roelands in the south and from the coast in the west out to the locality of Hoffman in the east, with a population of 8,597 in 2011.

The incidence of cancer types in Waroona Shire was similar to the State, and the same was found for males in the adjacent Harvey Part B SLA. In Harvey, the all-cancers incidence among females was between 6% and 52% higher than the State average, however the only individual cancer type in Harvey showing a significantly higher rate than the State average was lung cancer.

The WA Health and Wellbeing Surveillance System reported elevated smoking prevalence among female residents of the Harvey (B) population compared to the State in 2008 to 2012, but low statistical power limited detection of a significant difference due to a small sample size. Although the higher current smoking prevalence in this community may not fully explain the higher lung cancer rate in Harvey (B), it indicates that a complete description of the health status of the communities' population needs consideration when attributing ill-health to risk factor exposures.

regards

[REDACTED]  
**Executive Director**  
**Public Health and Clinical Services Division**  
 Department of Health  
 Level 3, C Block, 189 Royal St, EAST PERTH WA 6004

E: [REDACTED]@health.wa.gov.au  
 twitter handle [REDACTED]  
 www.health.wa.gov.au

**promoting health | preventing disease | managing risk**

**From:** [REDACTED]  
**Sent:** Wednesday, 30 October 2013 12:23 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: T130410h.xls

Thanks [REDACTED] - that's an improvement.

30/10/2013