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Robert Donley, Executive Director

January 8, 2014

Glen Dickinson  
Legislative Services Agency  
State Capitol

Re: IPRT FY 2013 Annual Report

Dear Mr. Dickinson:

Pursuant to 2011 Iowa Acts, Chapter 130 §57(4), the attached summary highlights activities for the Institute for Physical Research and Technology (IPRT) at Iowa State University for FY 2013. The attached spreadsheets include FY 2013 Matching Funds, Expenditures, and Industry Awards. This report is being sent to you for distribution to the Joint Appropriations Subcommittee on Economic Development.

If there are any questions concerning this report, please do not hesitate to contact us.

Sincerely,

Robert Donley

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cc: Robin Madison  
Legislative Liaisons  
Legislative Log

# IOWA STATE UNIVERSITY

Institute for Physical Research and Technology

IPRT Company Assistance

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Ames, Iowa 50011-3111

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[www.iprt.iastate.edu/assistance](http://www.iprt.iastate.edu/assistance)

January 8, 2014

## FY13 Progress Report on Institute for Physical Research and Technology Industrial Incentive Program Funds

FY13 funding in the amount of \$145,000 was provided by the Institute for Physical Research and Technology for the Iowa Industrial Incentive Program (IIP).

In FY13, eight IIP projects were funded: three projects with small businesses and five with larger businesses, industrial foundations, or trade associations. All eight projects were funded for directed contract research.

FY13 IIP expenditures on FY09-FY12 carry forward projects (\$74,683) and FY13 new projects (\$51,079) totaled \$125,762. FY13 revenue (match) from businesses, industrial foundations, and trade associations totaled \$153,563.

A summary of project evaluation data clearly shows that Iowa companies with technical problems and research and development needs continue to find important technical help through the services of IPRT Company Assistance, in the areas of Materials and Nondestructive Testing (NDT). Companies report positive impacts affecting their sales, investments, and operating costs throughout the languishing recovery from the economic recession of 2009-2011. Significant improvements in the performance of this program are expected in FY14; to date five projects have been initiated in FY14 with another five in process.



Leonard J. Bond, Ph.D.

Interim Director, IPRT

**IPRT Company Assistance FY 13 Expenditures  
Allocations to IIP and Industry Awards  
Carry Forward from FY07**

Company	Small Co.	City	County	FY13		FY 13		IIP Award	FY13		12 IIP Carry Forward	13 IIP Spent
				Industry Award	Amendments (if applicable)	Spent	Revenue		Amendments (if applicable)	Revenue		
Molecular Express	*	404-25-68	Ames	Story	\$ 324,973.00	\$ -	\$ 14,681.73	\$ -	\$ 10,000.00	\$ -	\$ -	\$ -
					<b>\$ 324,973.00</b>	<b>\$ -</b>	<b>\$ 14,681.73</b>	<b>\$ -</b>	<b>\$ 10,000.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

**IPRT Company Assistance FY 13 Expenditures  
Allocations to IIP and Industry Awards  
Carry Forward from FY09**

Company	Small Co.	City	County	Company (Matching dollars from company)		FY 13		IIP Award	FY13		12 IIP Carry Forward	13 IIP Spent
				Industry Award	Amendments (if applicable)	Spent	Revenue		Amendments (if applicable)	Revenue		
Metabolic Technologies Inc	*	400-75-30	Ames	Story	\$ 26,069.00	\$ -	\$ -	\$ -	\$ 15,065.00	\$ -	\$ 136.95	\$ 136.95
					<b>\$ 46,229.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 33,065.00</b>	<b>\$ -</b>	<b>\$ 136.95</b>	<b>\$ 136.95</b>

**IPRT Company Assistance FY 13 Expenditures  
Allocations to IIP and Industry Awards  
Carryforward from FY11**

Company	Small Co.	City	County	FY13		FY 13		IIP Award	FY13		12 IIP Carry Forward	13 IIP Spent
				Industry Award	Amendments (if applicable)	Spent	Revenue		Amendments (if applicable)	Revenue		
Endometric	*	404-25-04	Ames	Story	\$ 21,051.00	\$ -	\$ (12.34)	\$ -	\$ 20,000.00	\$ -	\$ 328.44	\$ 328.44
					<b>\$ 124,323.00</b>	<b>\$ -</b>	<b>\$ (12.34)</b>	<b>\$ -</b>	<b>\$ 68,868.00</b>	<b>\$ -</b>	<b>\$ 328.44</b>	<b>\$ 328.44</b>
Schneider Electric		400-65-34	Cedar Rapids	Linn	\$ 25,000.00	\$ -	\$ -	\$ -	\$ 20,000.00	\$ -	\$ 19.12	\$ 19.12
					<b>\$ 122,169.00</b>	<b>\$ -</b>	<b>\$ 983.70</b>	<b>\$ -</b>	<b>\$ 85,521.00</b>	<b>\$ -</b>	<b>\$ 19.12</b>	<b>\$ 19.12</b>

**IPRT Company Assistance FY 13 Expenditures  
Allocations to IIP and Industry Awards  
Carryforward from FY12**

Company	Small Co.	City	County	FY13		FY 13		IIP Award	FY13		12 IIP Carry Forward	13 IIP Spent
				Industry Award	Amendments (if applicable)	Spent	Revenue		Amendments (if applicable)	Revenue		
Softronics	*	400-65-09	Marion	Linn	\$ 16,577.00	\$ -	\$ 4,352.66	\$ -	\$ 7,378.00	\$ -	\$ 3,806.54	\$ 3,806.54
Endometric	*	400-65-47	Ames	Story	\$ 25,606.00	\$ -	\$ 287.03	\$ -	\$ 24,974.91	\$ -	\$ 9,217.44	\$ 6,216.16
					<b>\$ 42,183.00</b>	<b>\$ -</b>	<b>\$ 4,639.69</b>	<b>\$ -</b>	<b>\$ 32,352.91</b>	<b>\$ -</b>	<b>\$ 13,023.98</b>	<b>\$ 10,022.70</b>
DuctSox		400-65-45	Peosta	Dubuque	\$ 22,713.00	\$ -	\$ 10,112.82	\$ 7,571.00	\$ 22,709.97	\$ -	\$ 19,243.46	\$ 15,483.03
Harvest Innovations		400-65-49	Indianola	Warren	\$ 42,030.00	\$ -	\$ 22,468.57	\$ 28,020.00	\$ 24,639.00	\$ -	\$ 19,129.25	\$ 19,129.25
Amana Farms		400-65-54	Amana	Iowa	\$ 17,283.00	\$ -	\$ 17,283.00	\$ 17,283.00	\$ 15,111.00	\$ -	\$ 15,111.00	\$ 15,110.92
Vi-Cor		400-65-28	Mason City	Cerro Gordo	\$ 18,900.00	\$ -	\$ 18,900.00	\$ 9,450.00	\$ 14,683.00	\$ -	\$ -	\$ 14,452.09
					<b>\$ 100,926.00</b>	<b>\$ -</b>	<b>\$ 68,764.39</b>	<b>\$ 62,324.00</b>	<b>\$ 77,142.97</b>	<b>\$ -</b>	<b>\$ 53,483.71</b>	<b>\$ 64,175.29</b>

**IPRT Company Assistance FY 13 Expenditures  
Allocations to IIP and Industry Awards  
Newly allocated in FY13**

Company	Small Co.	City	County	FY13		FY 13		IIP Award	FY13		12 IIP Carry Forward	13 IIP Spent
				Industry Award	Amendments (if applicable)	Spent	Revenue		Amendments (if applicable)	Revenue		
Solum, Inc	*	400-25-68	Ames	Story	\$ 10,000.00	\$ -	\$ 10,000.00	\$ -	\$ 25,000.00	\$ -	\$ -	\$ 6,920.35
Wootworks	*	400-65-55	Des Moines	Polk	\$ 7,789.00	\$ -	\$ 1,090.70	\$ 7,789.00	\$ 18,547.00	\$ -	\$ -	\$ 62.47
					<b>\$ 17,789.00</b>	<b>\$ -</b>	<b>\$ 1,090.70</b>	<b>\$ 17,789.00</b>	<b>\$ 43,547.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,982.82</b>
Diamond V		400-65-15	Cedar Rapids	Linn	\$ 83,491.00	\$ -	\$ 65,135.34	\$ 83,491.00	\$ 25,000.00	\$ -	\$ -	\$ 25,000.00
Pella		400-65-22	Pella	Marion	\$ 4,297.00	\$ -	\$ 4,297.00	\$ 4,297.00	\$ -	\$ (27.00)	\$ -	\$ 4,270.00
Pella		400-65-32	Pella	Marion	\$ 17,056.00	\$ -	\$ 3,107.91	\$ 17,056.00	\$ 16,935.00	\$ -	\$ -	\$ 2,581.90
Nutra-Flo Company		400-65-29	Sioux City	Woodbury	\$ 12,978.00	\$ -	\$ 2,721.60	\$ 12,978.00	\$ 12,300.00	\$ -	\$ -	\$ -
Scott's Company, LLC		400-65-53	Fort Madison	Lee	\$ 17,952.00	\$ -	\$ 17,952.00	\$ -	\$ 17,803.00	\$ -	\$ -	\$ 673.07
MAHLE Engine Components		400-65-52	Atlantic	Cass	\$ 22,686.00	\$ -	\$ 15,440.67	\$ -	\$ 22,331.00	\$ -	\$ -	\$ 11,570.98
					<b>\$ 158,460.00</b>	<b>\$ -</b>	<b>\$ 90,702.52</b>	<b>\$ 135,774.00</b>	<b>\$ 98,666.00</b>	<b>\$ (27.00)</b>	<b>\$ -</b>	<b>\$ 44,095.95</b>

	Industry Award	FY13 Amendments	FY13 Industry Spent	FY 13 Revenue	IIP Award	FY13 Amendments (if applicable)	FY13 IIP Allocated Funds	13 IIP Spent
Previous Year Carry-over projects:								
Small companies	\$ 594,017.68	\$ -	\$ 19,309.08	\$ -	\$ 195,086.91	\$ -	\$ 13,489.37	\$ 10,488.09
Other companies	\$ 302,547.00	\$ -	\$ 69,748.09	\$ 62,324.00	\$ 216,785.97	\$ -	\$ 53,502.83	\$ 64,194.41
	\$ 896,564.68	\$ -	\$ 89,057.17	\$ 62,324.00	\$ 411,872.88	\$ -	\$ 66,992.20	\$ 74,682.50
Newly allocated FY 13 projects:								
Small companies	\$ 17,789.00	\$ -	\$ 1,090.70	\$ 17,789.00	\$ 43,547.00	\$ -	\$ -	\$ 6,982.82
Other companies	\$ 158,460.00	\$ -	\$ 90,702.52	\$ 135,774.00	\$ 98,666.00	\$ (27.00)	\$ -	\$ 44,095.95
	\$ 176,249.00	\$ -	\$ 91,793.22	\$ 153,563.00	\$ 142,213.00	\$ (27.00)	\$ -	\$ 51,078.77
Carry-over and New projects:								
Combined small co. total	\$ 611,806.68	\$ -	\$ 20,399.78	\$ 17,789.00	\$ 238,633.91	\$ -	\$ 13,489.37	\$ 17,470.91
Combined other co. total	\$ 461,007.00	\$ -	\$ 160,450.61	\$ 198,098.00	\$ 315,451.97	\$ (27.00)	\$ 53,502.83	\$ 108,290.36
	\$ 1,072,813.68	\$ -	\$ 180,850.39	\$ 215,887.00	\$ 554,085.88	\$ (27.00)	\$ 66,992.20	\$ 125,761.27

\* - Indicates small company.  
Small company defined as 20 or less FTE.

FY13 expenditures

Company Funds	Account	Salaries	Grad Salaries	Hourly Wages	Benefits	Tuition	Travel	Supplies	Other	Equipment	Indirect	Total	Waived IDC	109-65-01	Sec/Proj	Salaries	Grad Salaries	Hourly Wages	Benefits	Tuition	Travel	Supplies	Other	Equipment	Total
Molecular Express	404-25-68	7035.00	0.00	0.00	3912.28	0.00	0.00	0.00	6.58	0.00	3727.87	14681.73	full idc	Molecular Express	11-0090	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Company Funds	Account	Salaries	Grad Salaries	Hourly Wages	Benefits	Tuition	Travel	Supplies	Other	Equipment	Indirect	Total	Waived IDC	109-65-01	Sec/Proj	Salaries	Grad Salaries	Hourly Wages	Benefits	Tuition	Travel	Supplies	Other	Equipment	Total
MG Biologics	400-75-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MG Biologics	09-0010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Metabolic Technologies Inc	400-75-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Metabolic Technologies I	09-0090	0.00	0.00	0.00	0.00	0.00	0.00	0.00	136.95	0.00	136.95

Company Funds	Account	Salaries	Grad Salaries	Hourly Wages	Benefits	Tuition	Travel	Supplies	Other	Equipment	Indirect	Total	Waived IDC	109-65-01	Sec/Proj	Salaries	Grad Salaries	Hourly Wages	Benefits	Tuition	Travel	Supplies	Other	Equipment	Total	
Biodynamics	400-75-47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Biodynamics	10-0110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EvoISwing	400-75-39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	EvoISwing	10-0070	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HGI	400-75-36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HGI	10-0050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Permeate Refining/Mello3z	400-75-49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Permeate Refining/Mello3z	10-0120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PHD Technologies	400-75-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	PHD Technologies	10-0010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Great Plains Diesel Tech	400-75-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Great Plains Diesel Tech	10-0090	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Company Funds	Account	Salaries	Grad Salaries	Hourly Wages	Benefits	Tuition	Travel	Supplies	Other	Equipment	Indirect	Total	Waived IDC	109-65-01	Sec/Proj	Salaries	Grad Salaries	Hourly Wages	Benefits	Tuition	Travel	Supplies	Other	Equipment	Total	
APC	400-75-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	APC	10-0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Poet Research	400-75-50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Poet Research	10-0130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Schenker Logistics	400-75-37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Schenker Logistics	10-0060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Company Funds	Account	Salaries	Grad Salaries	Hourly Wages	Benefits	Tuition	Travel	Supplies	Other	Equipment	Indirect	Total	Waived IDC	109-65-01	Sec/Proj	Salaries	Grad Salaries	Hourly Wages	Benefits	Tuition	Travel	Supplies	Other	Equipment	Total	
Endometric	404-25-04	0.00	0.00	0.00	0.00	0.00	9.41	-21.75	0.00	0.00	0.00	0.00	-12.34	full idc	Endometric	11-0040	0.00	0.00	0.00	0.00	0.00	285.65	0.00	42.79	0.00	328.44
My Diabetes Home	400-75-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	My Diabetes Home	11-0050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bold	400-75-38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Bold	11-0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VetCara	400-65-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	VetCara	11-0070	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Permeate/Mello3z	400-75-49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Permeate/Mello3z	11-0110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Company Funds	Account	Salaries	Grad Salaries	Hourly Wages	Benefits	Tuition	Travel	Supplies	Other	Equipment	Indirect	Total	Waived IDC	109-65-01	Sec/Proj	Salaries	Grad Salaries	Hourly Wages	Benefits	Tuition	Travel	Supplies	Other	Equipment	Total	
APC	400-75-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	APC	11-0010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Juergens	400-75-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Juergens	11-0020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Harvest Innovations	400-75-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Harvest Innovations	11-0060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kemin	400-65-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	780.95	0.00	202.75	983.70	171.81	Kemin	11-0080	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Schneider Electric	400-65-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Schneider Electric	11-0120	0.00	0.00	0.00	0.00	0.00	0.00	19.12	0.00	0.00	19.12	

Company Funds	Account	Salaries	Grad Salaries	Hourly Wages	Benefits	Tuition	Travel	Supplies	Other	Equipment	Indirect	Total	Waived IDC	109-65-01	Sec/Proj	Salaries	Grad Salaries	Hourly Wages	Benefits	Tuition	Travel	Supplies	Other	Equipment	Total
Softronics	400-65-09	1825.65	0.00	0.00	319.39	0.00	0.00	0.00	1638.44	0.00	569.18	4352.66	832.37	Softronics	12-0010	1409.83	2032.60	0.00	347.52	-318.08	0.00	0.00	334.67	0.00	3806.54
Endometric	400-65-47	0.00	0.00	148.50	2.28	0.00	0.00	30.00	47.02	0.00	59.23	287.03	50.12	Endometric	12-0020	0.00	0.00	5909.25	306.91	0.00	0.00	0.00	0.00	6216.16	
DuctSox	400-65-45	1662.55	3730.44	0.00	1092.65	2235.00	0.00	0.00	0.00	0.00	1392.18	10112.82	1918.54	DuctSox	12-0030	5249.67	6169.56	0.00	1828.80	2235.00	0.00	0.00	0.00	15483.03	
Harvest Innovations	400-65-49	13003.52	0.00	0.00	4908.46	0.00	0.00	-77.51	-2.24	0.00	4636.34	22468.57	3923.09	Harvest Innovations	12-0040	9696.06	0.00	3452.15	3185.76	0.00	0.00	86.00	2709.28	0.00	19129.25
Amana Farms	400-65-54	9490.17	857.14	727.00	1721.69	870.00	0.00	150.00	80.00	0.00	3387.00	17283.00	3057.12	Amana Farms	12-0050	4457.70	8347.83	745.00	1560.39	0.00	0.00	0.00	0.00	15110.92	
Vi-Cor	400-65-28	0.00	0.00	0.00	0.00	0.00	0.00	12915.31	2084.69	0.00	3900.00	18900.00	3300.00	Vi-Cor	12-0060	7613.44	0.00	0.00	3054.46	0.00	339.90	3084.29	360.00	0.00	14452.09

Company Funds	Account	Salaries	Grad Salaries	Hourly Wages	Benefits	Tuition	Travel	Supplies	Other	Equipment	Indirect	Total	Waived IDC	109-65-01	Sec/Proj	Salaries	Grad Salaries	Hourly Wages	Benefits	Tuition	Travel	Supplies	Other	Equipment	Total
Diamond V	400-65-15	33321.34	0.00	0.00	5597.71	0.00	0.00	184.05	12591.62	0.00	13440.62	65135.34	11372.84	Diamond V	13-0010	0.00	0.00	0.00	0.00	0.00	0.00	4015.67	20984.33	0.00	25000.00
Pella	400-65-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3410.40	0.00	886.60	4297.00	750.29	Pella	13-0020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4270.00	0.00	4270.00
Pella	400-65-32	0.00	1634.78	0.00	388.37	558.75	0.00	0.00	0.00	0.00	526.01	3107.91	568.02	Pella	13-0040	0.00	1634.78	0.00	388.37	558.75	0.00	0.00	0.00	0.00	2581.90
Nutra Flo	400-65-29	0.00	0.00	0.00	0.00	0.00	0.00	1600.00	560.00	0.00	561.60	2721.60	475.20	Nutra Flo	13-0050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
The Scotts Company	400-65-53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	The Scotts Company	13-0060	0.00	0.00	0.00	0.00	0.00	0.00	73.25	599.82	0.00	673.07
Mahle Engine	400-65-52	8788.83	0.00	206.00	1545.94	0.00	0.00	1683.73	30.00	0.00	3186.17	15440.67	2695.99	Mahle Engine	13-0070	6205.23	3386.96	0.00	1475.79	503.00	0.00	0.00	0.00	0.00	11570.98
Solum	400-25-68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Solum	13-0080	0.00	2000.00	0.00	129.42	0.00	0.00	290.93	4500.00	0.00	6920.35
WootWorks	400-65-55	0.00	0.00	783.75	81.89	0.00	0.00	0.00	0.00	0.00	225.06	1090.70													