



Shetland in Statistics



Price 40p

No. 6
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Physical Characteristics

Total Area of Shetland: 551 square miles

Mainland	378 sq miles	Skerries	1 sq mile
Unst	47 sq miles	Burra	5 sq miles
Yell	83 sq miles	Trondra	1 sq mile
Fetlar	15 sq miles	Papa Stour	3 sq miles
Whalsay	8 sq miles	Foula	5 sq miles
Bressay	11 sq miles	Fair Isle	2 sq miles

Total length of coastline: Approx. 3000 miles

Number of islands: 100+ Number inhabited: 16

Principal Hills in Shetland:

Unst:	Saxa Vord	935 ft (285 m)
Northmavine:	Ronas Hill	1477 ft (450 m)
Delting:	Marrofield	850 ft (259 m)
Weisdale:	Scallafield	922 ft (281 m)
Cunningsburgh:	Rölfeld	962 ft (293 m)
Dunrossness:	Fitful Head	929 ft (283 m)
Foula:	The Sneug	1372 ft (418 m)
	The Kame	1220 ft (372 m)

Distances by road in miles from Lerwick to:

South & Central Mainland	West Mainland	North Mainland	North Isles via Ferries
Gulberwick 3½	Tingwall 6	Voe 18	YELL:
Quarff 7	Whiteness 8	Mossbank 28½	Ulsta 29
C'ningsburgh 11	Weisdale 11	Toft Ferry 29	Burravoe 33½
Sandwick 15	Bixter 17	Brae 22	Mid Yell 41
Levenwick 18	Aith 21	Graven 29	Gutcher 50
Bigton 18½	Park Hall 18	Calback Ness 31	Cullivoe 52
Boddam 21½	Br. of Walls 23	Mavis Grind 24	UNST:
Quendale 24	Walls 24½	Sullom 29	Belmont 50
Sumburgh 24½	Sandness 29	Urafirth 31½	Uyeasound 53
Scalloway 8	Reawick 24	Hillswick 35	Baltasound 56
Burra 12	Gruting 29	Eshaness 39	Haroldswick 59
Nesting 16	Laxfirth 6½	Ollaberry 36	
Laxo Ferry 22	Girista 10	North Roe 38	
Lunna 27	Stromfirth 12	Isbister 39	

Approximate Distance and Direction of Shetland from:

Bergen	200 miles	W
Aberdeen	180 miles	N
Faroe Islands	180 miles	SE
Orkney	55 miles	NE

Climate

The recorded meteorological observations from Lerwick Observatory for 1976 are as follows:

Temperature (degrees C)

	1976 monthly mean		1941-70 monthly mean		Extreme daily values (1921-1976)	
	Max	Min	Max	Min	Max (Year)	Min (Year)
Jan	+ 4.1	+ 0.9	+ 4.7	+ 1.3	+11.7 ('32,'50)	-8.9 ('52,'59)
Feb	+ 5.6	+ 2.8	+ 4.7	+ 0.9	+11.7 ('45)	-7.2 ('47,'55)
Mar	+ 5.1	+ 1.8	+ 5.8	+ 1.8	+13.3 ('61)	-8.3 ('47)
Apr	+ 7.6	+ 3.2	+ 7.9	+ 2.9	+16.1 ('42)	-5.7 ('68)
May	+10.3	+ 5.8	+10.1	+ 5.1	+19.4 ('54)	-2.8 ('23)
Jun	+12.9	+ 8.3	+12.5	+ 7.6	+23.3 ('58)	-0.6 ('24,'29,'31,'51)
Jul	+14.6	+10.1	+14.0	+ 9.3	+22.8 ('26,'58)	+ 3.3 ('21)
Aug	+15.0	+10.0	+14.1	+ 9.6	+20.6 ('38,'47)	+ 1.7 ('21)
Sep	+11.2	+ 7.5	+12.6	+ 8.5	+19.4 ('53)	-0.6 ('54)
Oct	+10.2	+ 7.4	+10.2	+ 6.7	+17.2 ('55)	-3.3 ('48)
Nov	+ 7.9	+ 4.8	+ 7.3	+ 4.4	+13.9 ('46)	-5.7 ('62)
Dec	+ 3.8	+ 0.7	+ 5.6	+ 2.4	+12.2 ('48)	-8.3 ('61)
Year	+ 9.0	+ 5.3	+ 9.1	+ 5.0		

Number of days in 1976 with:

	Snow or Sleet	Thick Fog	Air Frost	Thunder	Gales
Jan	18 (15.0)	0 (1.8)	15 (11.0)	1 (0.3)	13 (8.5)
Feb	6 (13.0)	1 (2.0)	3 (12.0)	0 (0.7)	6 (5.7)
Mar	14 (12.0)	0 (2.6)	5 (8.8)	1 (0.3)	10 (7.4)
Apr	6 (6.9)	5 (5.0)	2 (5.7)	0 (0.1)	6 (2.2)
May	2 (2.5)	3 (6.3)	1 (1.0)	1 (0.1)	0 (1.5)
Jun	0 (0+)	6 (7.7)	0 (0.1)	0 (0.3)	1 (1.3)
Jul	0 (0.0)	9 (6.9)	0 (0.0)	0 (0.3)	2 (0.6)
Aug	0 (0.0)	9 (6.9)	0 (0.0)	0 (0.3)	0 (0.5)
Sep	0 (0+)	0 (6.0)	0 (0.0)	0 (0.2)	2 (2.5)
Oct	0 (1.1)	2 (3.6)	0 (0.6)	0 (0.3)	3 (5.5)
Nov	5 (7.0)	0 (0.7)	2 (4.9)	2 (0.7)	5 (5.0)
Dec	18 (13.0)	0 (1.6)	11 (8.8)	2 (0.3)	1 (7.8)
Totals	69 (70.5)	35 (51.1)	39 (52.9)	7 (3.9)	49 (48.5)

Figures in brackets are 1956-1970 monthly mean totals.

Days of snow or sleet: Snow or sleet observed at any time of the day.

Air frost: Minimum air temperature less than 0.0 deg. C.

Thunder: Thunder heard at any time of day.

Gales: Mean wind speed greater than or equal to 34 knots for at least 10 mins.

Thick fog: Visibility less than 200 metres at any time of the day.

MONTHLY TOTALS

	Sunshine (hours)		Rainfall (mm)	
	1976 totals	Extreme daily totals	1976 totals	Extreme daily fall
Jan	14.8 (25)	6.6 ('39)	160.4 (128)	42.2 ('49)
Feb	30.1 (54)	9.8 ('40)	99.9 (105)	46.5 ('51)
Mar	81.8 (86)	11.6 ('64)	105.5 (93)	46.7 ('52)
Apr	111.9 (137)	14.8 ('26)	75.2 (69)	37.1 ('40)
May	158.0 (157)	16.2 ('40,'57)	40.2 (64)	49.8 ('66)
Jun	129.5 (152)	17.4 ('34)	64.3 (67)	31.8 ('54)
Jul	159.0 (131)	16.6 ('35)	41.3 (68)	94.0 ('35)
Aug	165.1 (116)	15.1 ('28)	25.4 (75)	46.9 ('48)
Sep	102.1 (99)	13.0 ('24)	46.8 (109)	50.8 ('54)
Oct	58.9 (62)	10.1 ('37)	133.5 (123)	33.8 ('28)
Nov	50.3 (33)	6.8 ('61,'67)	143.0 (129)	71.4 ('48)
Dec	21.6 (15)	5.1 ('57)	85.9 (142)	45.2 ('51)

Figures in brackets are 1941-1970 averages.

Extreme daily totals are over the years 1921-1976.

Wind Speed (knots)

	Monthly mean		Max hourly mean speed 1921-1976			Highest Gust 1921-1976		
	1976	1941-1970	1976	Dir	Year	1976	Dir	Year
Jan	18.6 (17.0)		44	{ 64	010° '53	67 (95	220°	'61)
Feb	18.0 (15.9)		49	(56	220° '57)	74	{ 83	280° '43
Mar	20.0 (16.1)		45	(53	240° '67)	70 (77	240°	'67)
Apr	15.4 (14.2)		38	(55	250° '57)	57 (78	250°	'57)
May	13.8 (12.4)		29	(43	230° '58)	40 (65	240°	'56)
Jun	12.1 (11.9)		38	(42	260° '55)	55 (61	260°	'55)
Jul	12.1 (11.3)		33	(40	030° '40)	46 (61	290°	'64)
Aug	10.0 (10.9)		27	(49	240° '23)	39 (69	240°	'23)
Sep	14.3 (13.1)		35	(58	270° '63)	55 (87	270°	'63)
Oct	15.4 (15.1)		41	(58	230° '65)	62 (82	230°	'65)
Nov	15.5 (15.4)		40	{ 51	220° '38	58	{ 80	280° '36
Dec	11.4 (16.8)		30	(58	240° '36)	49 (90	220°	'56)

(Lerwick Observatory: 60° 08' N, 01° 11' W 82 m above sea level)

Population

The population of Shetland at the time of the 1971 census was 17,327. Since 1971 there has been no accurate assessment of the population but an estimate can be obtained from the registrations under the National Health Scheme. In December, 1975, the population was estimated as 19,069 persons and the increase up to December, 1976, is as follows:

In-migrants	1071
Out-migrants	688
Migration balance	+383
Births	327
Deaths	253
Natural Increase	+74
Total Increase	457

Population Estimate December 1975	19069
Population Estimate December 1976	19526
Percentage Increase	+2.40%

Population of Shetland by Area (June of each year)

	1931	1951	1961	1971	1974	1976
Unst	1341	1112	1151	1127	1038	1056
Yell	1883	1483	1152	1143	1168	1186
Fetlar	217	161	127	88	94	99
Whalsay	900	859	764	870	963	997
Skerries	110	127	108	100	98	93
Mavis Grind - North	1343	1054	816	696	694	710
Delting	958	863	701	674	1180	1161
Nesting	822	563	434	380		
Tresta - Bridge of Walls	1552	1225	957	873	938	995
West of Bridge of Walls	884	687	561	483	539	543
Foula	118	75	54	33	31	36
Papa Stour	100	68	55	24	30	38
Whiteness/Weisdale/Gott/Tingwall	1140	1604	1603	1671	782	881
Scalloway					1024	1080
Trondra	91	54	20	17	24	33
Lerwick	4221	*5538	5908	6127	6214	6407
Bressay	452	335	269	251	275	294
Burra	767	648	653	565	672	743
Quarff/Gulberwick	1518	*426	385	171	199	225
Sandwick/Cunningsburgh	1507	1376	1172	1120	1025	1105
Bigton Junction - South	1089	1021	858	848	1264	1401
Fair Isle	108	73	64	65	79	76
TOTAL POPULATION	21421	19352	17812	17327	18331	19159

*Boundary Change

Figures in Cols 1 to 4: Population Census

Figures in Cols. 5 and 6: Shetland Health Board (estimates)

Housing

NEW HOUSES 1976:

	Under construction	Completed
Shetland Islands Council:		
Lerwick	72	18
Haroldswick	-	15
Baltasound	-	19
Uyeasound	-	14
Cullivoe	-	10
Mid Yell	10	-
Fetlar	-	15
Whalsay	24	-
Brae	-	19
Voe	-	18
Walls	12	-
Bixter	-	8
Skeld	-	8
Aith	19	-
Nesting	23	-
Weisdale	-	20
Scalloway	16	-
Hamnavoe	-	1
Cunningsburgh	11	18
Virkie	7	-
Special Schemes:		
Brae, Mossbank, Firth	100	140
	294	323
Scottish Special Housing Association:		
Lerwick	-	36
Hamnavoe	-	4
	-	40
Civil Aviation Authority:		
Virkie	-	8
Scottish Airports Housing Association:		
Virkie	24	-
Ministry of Defence		
	-	14
Private Housing		
	200	86
TOTAL ALL SECTORS	518	471

Comparison with previous years:

Year	Under construction	Completed
1974	362	106
1975	564	296
1976	518	471

Improvement in housing conditions within Shetland:

Date	Number of Houses		Total
	Tolerable	Not Tolerable	
31/12/74	4908	1539	6447
31/12/75	5269	1445	6704
31/12/76	5775	1397	7172
Number of houses closed as "not tolerable"			13
Number of houses improved to "tolerable" standard			35
Additional New Houses			471

Electricity

Number of Consumers Connected by area:

	Dec '72	Dec '73	Dec '74	Dec '75	Dec '76
Burra/Trondra	262	271	283	298	330
Bressay	111	116	116	129	133
Unst	325	328	336	372	412
Whalsay	264	273	280	303	305
Yell	412	418	439	451	460
Lerwick	2864	2929	3007	3110	3208
Scalloway	419	442	452	458	468
South Mainland	969	1043	1092	1147	1210
West Mainland	923	936	989	1031	1090
North Mainland	799	815	853	998	1013
TOTAL	7348	7571	7847	8197	8629

Breakdown into Categories:

Domestic	6160	6366	6607	6939	7338
Farms	41	41	43	42	44
Public Lighting	10	10	11	11	11
Shops	217	220	223	219	220
Offices	66	67	68	69	69
Public Buildings	31	30	30	30	30
Hotels & Boarding Houses	19	20	20	22	22
H.M. Forces	4	4	4	4	4
Other Commercial & Public	727	740	768	788	818
Water, Gas & Drainage	9	9	9	9	9
Factories & Workshops	64	64	64	64	64
TOTAL	7348	7571	7847	8197	8629

Telephones

Number of connections as at 31st December each year:

	1970	1971	1972	1973	1974	1975	1976
Unst	139	143	154	166	170	170	184
Yell	159	174	179	196	204	213	235
Fetlar	21	21	25	27	27	29	30
Northmavine	121	129	129	134	142	151	174
Delting	135	147	160	167	190	232	290
Walls & Sandness	126	129	135	139	149	156	162
Sandsting & Aifhsting	164	175	184	187	201	205	220
Nesting & Lunnasting	76	81	83	88	94	105	107
Whalsay	189	194	207	225	235	233	267
Skerries	19	23	24	25	29	28	30
Tingwall	312	335	352	388	414	455	513
Bressay	54	56	59	62	62	67	78
Burra	118	132	143	149	156	167	193
Dunrossness	387	405	452	513	567	584	696
Lerwick	1189	1275	1428	1546	1698	1796	2045
TOTALS	3209	3419	3714	4012	4338	4591	5224

Prior to 1940: All communication outwith the Islands was by telegraph cable.

1940: Shetland Islands connected telephonically with mainland of Scotland for the use of H.M. Services. Members of public only allowed to make calls on matters of extreme urgency.

1945: Trunk calls to mainland allowed.

	Telephones in Lerwick	Telephones in rest of Shetland	Total telephones in Shetland
1940	277	96	373
1950	492	393	885
1960	703	897	1600

NUMBER OF TELEVISION LICENCES:

	Dec. 1970	Dec. 1975	Dec. 1976
Mono	4574	5356	5399
Colour	-	-	64

Education

Primary School Rolls as at:	Dec '74	Jan '76	Jan '77
Baltasound Junior High	92	100	111
Mid Yell Junior High	74	76	73
Brae Junior High	65	68	89
Symbister House Junior High ...	145	149	134
Aith Junior High	74	63	66
Scalloway Junior High	135	136	135
Sandwick Junior High	75	81	80
Haroldswick Primary	35	33	33
Uyeasound Primary	30	27	27
Cullivoe Primary	20	23	23
Burravoe Primary	27	31	34
Fetlar Primary	4	6	7
North Roe Primary	17	16	17
Ollaberry Primary	14	12	19
Urafirth Primary	26	29	35
Olnafirth Primary	32	30	29
Lunnasting Primary	20	22	22
South Nesting Primary	17	14	18
Skerries Primary	13	12	13
Sandness Primary	4	7	9
Foula Primary	8	4	4
Happyhansel Primary	39	40	37
Gruting Primary	9	11	10
Skeld Primary	25	26	35
Whiteness Primary	37	56	70
Hamnavoe Primary	57	65	90
Gott Primary	40	43	54
Cunningsburgh Primary	68	74	86
Dunrossness Primary	137	152	173
Fair Isle Primary	12	9	12
Quarff Primary	22	19	20
Bressay Primary	36	38	32
Lerwick Primary	748	790	817
TOTALS	2157	2262	2414
Secondary School Rolls as at:	Dec '74	Jan '76	Jan '77
Anderson High School (comprehensive)	736	770	809
Baltasound Junior High	44	58	61
Mid Yell Junior High	62	58	60
Brae Junior High	60	68	81
Symbister House Junior High	51	54	59
Aith Junior High	70	65	77
Scalloway Junior High	118	129	132
Sandwick Junior High	86	87	110
Skerries	6	6	6
TOTALS	1233	1295	1395

Transport

INTERNAL TRANSPORT (PUBLIC)

Location	Type of Transport	Type of Service	Surface Type and Dimensions of Airstrip
Unst	Air	S	Bituminous (610 x 23 m)
	SIC vehicle ferry	S	
Yell	SIC vehicle ferry	S	
Fetlar	Air	S	Soft gravel (457 x 18 m)
	SIC vehicle ferry	S	
Skerries	Air	C	Grass (381 x 18 m)
	SIC ferry	S	
Whalsay	Air	S	Rolled Gravel (firm) (457 x 18 m)
	SIC vehicle ferry	S	
Bressay	SIC vehicle ferry	S	
Tingwall	Air	S	Bituminous (740 x 18 m)
Fair Isle	Air	S	Rolled Gravel (firm) (457 x 18 m)
	Ferry boat (P)	S	
Papa Stour	Ferry boat (P)	S & C	
Valla	Ferry boat (P)	C	
Foula	Air	C	Soft Gravel (457 x 18 m)
	Ferry boat (P)	S	
Burra & Trondra	Bridge link to Mainland		
Muckle Roe	Bridge link to Mainland		

P — Privately Owned S — Scheduled C — Charter
All internal scheduled air services operated by Loganair Ltd.

Bus Services also operate from:

Lerwick to: Sumburgh; Sumburgh Airport
Sandwick
Brae - Hillswick/North Roe
Weisdale - Skeld; Weisdale - Walls
Voe - Toft for Yell; Unst/Fetlar
Laxo for Whalsay;
Scalloway Burra
Yell:
Ulsta - Gutcher - Cullivoe
Ulsta - Mid Yell - Westsandwick
Unst:
Belmont - Saxa Vord/Baltasound

Present schedule of County Highways:

Principal Roads	123.89 miles
Other Class I Roads	16.68 miles
Class II Roads	100.45 miles
Class III Roads	104.42 miles
Unclassified Roads	180.35 miles

Total: 525.79 miles

SHIPPING IN LERWICK HARBOUR

	1974	1975	1976
General	439	580	470
H.M. Ships	18	32	33
Coal	9	7	13
Oil	74	82	99
Oil Rig Tenders	838	1581	1679
Other Vessels	477	616	723
British Fishing	901	674	893
Foreign Fishing	1275	1237	1357
Total All Shipping	4031	4809	5267
Net Registered Tonnage	823276	1257343	1442672

The above figures do not include the Shetland fishing fleet.

Foreign Fishing Vessels:

Country:	1974	1975	1976
Denmark	314	319	416
Faroes	220	236	203
Finland	1	3	7
France	8	9	11
Germany	7	3	4
Iceland	232	106	86
Netherlands	4	12	13
Norway	397	476	524
Poland	39	30	37
Sweden	26	26	43
U.S.S.R.	27	17	13
Total	1275	1237	1357

Total tonnage handled, Lerwick Harbour (tonnes):

	1974	1975	1976
General Cargo Imports	109049	150161	147762
General Cargo Exports	35098	45531	31997
Oil Related Imports	47967	255234	161454
Oil Related Exports	52814	211607.5	317884
Total	244928	662533.5	659097

SIC VEHICLE FERRY TRAFFIC

Island	1974		1975		1976	
	No. of Veh.	No. of Pass.	No. of Veh.	No. of Pass.	No. of Veh.	No. of Pass.
Yell	23956	45236	28284	52195	33333	62626
Unst/Fetlar	12422	25225	16618	30760	16920	33460
Bressay	—	—	—	—	14817	71615
Whalsay	—	—	—	—	10117	23110

1976 Whalsay figures are from 8/2/76

SUMBURGH AIRPORT TRAFFIC

1976	Passengers	Aircraft Movements	Freight (kg)	Helicopter Movements
Jan	15293	1637	109362	888
Feb	15184	1363	110360	653
Mar	17628	1911	153312	966
Apr	19889	2045	135806	962
May	22067	2411	153983	1220
Jun	22100	2291	129467	1081
Jul	22339	2232	115700	963
Aug	23273	2327	117632	1051
Sep	24904	2497	133125	1234
Oct	25039	2530	152524	1306
Nov	21775	2243	147924	1154
Dec	21287	2207	115143	1186
Total	250778	25694	1574338	12664
1975	186319	22224	1101007	9577
1974	158253	16966	930327	7273

Knitwear

There are approximately 30 knitwear units in Shetland ranging from a few 'large' businesses to numerous small operators. Added to this are all the individuals operating from home and supplying direct to firms on the UK Mainland and elsewhere.

Statistics on knitwear are difficult to collect, but it is estimated that the knitwear units employ approximately 200 full time/part time workers and 900 outworkers.

In 1976 an estimate of 400-450 thousand garments were produced, 60-65% of these being exported. Turnover is estimated to be upwards of £2 million.

During 1976 the market for Shetland knitwear turned round completely and the 'depressed' years of 1974 and 1975 were left behind in what was almost a 'boom' situation again. The situation remains the same in early 1977. Most firms have full order books for all types of garment. The demand for Fair Isle garments is so great that a form of 'rationing' exists.



Central Lerwick; scale 1/2500
Based on the Ordnance Survey Map HU 4740

Other fish landed:

		Tonnes	£
Mackerel	1976	775.04	38,623
	1975	226.09	5,569
	1974	135.38	4,304
Sprats	1976	973.86	64,895
	1975	258.83	15,751
	1974	209.14	7,365
Shellfish	1976	588.08	202,339
	1975	602.28	174,347
	1974	622.30	202,192

TOTAL (all species):

1976	49634.66 tonnes	value £4,219,470
1975	43131.13 tonnes	value £2,322,080
1974	48630.38 tonnes	value £3,164,740

Included in the white fish total:

Cod	1579.10 tonnes	value £407,671
Haddock	5333.22 tonnes	value £1,117,642
Whiting	5394.98 tonnes	value £872,348

Of the white fish total, 313.94 tonnes (2.3%) failed to make the withdrawal price and were processed as fish meal and oil. 876.57 tonnes of sprats were processed likewise and the remaining 97.29 tonnes realised a value of £27,489 and were frozen as whitebait.

Weight and Value of Catch by Method:

Seine Net	4731.93 tonnes	£871,446
Industrial Trawl	31308.49 tonnes	£1,155,125
Light Trawl	5908.12 tonnes	£1,127,091
Pair Trawl (white fish)	1339.66 tonnes	£298,794
Purse Seine	5134.19 tonnes	£514,699
Two Boat Pelagic Trawl (Sprats)	624.18 tonnes	£49,976
Shellfish	588.08 tonnes	£202,339

Landings at Shetland by Foreign vessels:

2976.88 tonnes value £125,894

Of this total, 66.09 tonnes, value £11,105, were for consumer purposes.

Landings at Scottish Ports by Shetland vessels:

997.05 tonnes value £257,306

Landings elsewhere by Shetland vessels:

253.39 tonnes value £31,758

Due to the conversion from cwts to tonnes, all the above weights are subject to slight change in the DAFS statistical tables.

1 tonne = 19.68 cwt (approx.)

Number of fishing vessels in Shetland:

1976	137 vessels (74 1st class; 63 2nd class)
1975	142 vessels (74 1st class; 68 2nd class)
1974	146 vessels (75 1st class; 71 2nd class)

Distribution of vessels by district; 1976;

District	1st class	2nd class	total	(1975)
Whalsay	22	9	31	(32)
Burra	18	8	26	(26)
Lerwick	11	2	13	(14)
Scalloway	10	3	13	(12)
Yell	3	6	9	(10)
Unst	1	5	6	(6)
Skerries	2	2	4	(5)
Other	7	28	35	(37)

1st Class — over 15 tons

2nd Class — under 15 tons

Numbers of fishermen: (Dec. each year):

Year	Full time	Part time	Crofter	Total
1976	494	130	28	652
1975	499	127	27	653
1974	520	137	28	685

Tourism

Estimated income from tourism (1976): £1.5 to £1.75 million

Accommodation capacity available to Shetland Tourist Organisation by bed spaces:

Type of Accommodation:

	1975	1976	1977
Lerwick Hotels	164	149	190
Country Hotels	195	292	286
Lerwick B & B	159	206	152
Country B & B	147	154	186
Self catering, Cottages, etc.	202	169	287
Caravans	84	106	188
Hostels	62	76	94
Total	1013	1152	1383

Number of visitors to Information Centre: 9497 (24% increase on 1975)

Number of Postal enquiries: 5377.

Oil

OFFSHORE

(a) The Exploration Phase:

The exploration phase for oil and gas offshore Shetland was initiated in June 1970, by the Dept. of Energy, when the first Licence blocks were allocated to interested companies.

Exploration activity began in earnest in 1971 and is expected to continue well into the 1980's. In 1971, supply and helicopter services were established in Shetland to support offshore activities and in July of that year, the first of many major oil strikes occurred when the Brent field was discovered.

(b) The Development Phase:

This began in 1975 with the laying of the main Ninian and Brent Pipeline system, and the floatout of the first of the production platforms (one for the Beryl field, one for the Brent field).

The main Ninian Pipeline was completed in May 1976, and the main Brent Line in June 1976.

1976 Offshore Highlights

Month	Field	Occurrence
May	Frigg	DP 2 platform structure emplaced
	Brent	'A' platform structure emplaced
	Ninian	Main Ninian pipeline system to Sullom Voe completed
June	Frigg	TP1 platform installed
		MCP1 platform installed
	Brent	Spar loading buoy unit installed Main Brent system pipeline to Sullom Voe completed.
July	Beryl	Single buoy mooring (SBM) reinstalled
	Brent	'D' platform emplaced
August	Frigg	Laying of gas pipeline to St. Fergus completed
	Beryl	Production of oil began, loading into tankers through SBM
September	Thistle	Platform emplaced
	Brent	Piling of Brent 'A' complete; deck trusses lifted onto Brent 'A' jacket
October	Brent	Installation of deck section of 'A' platform and modules commenced
November	Brent	Brent 'B' produced first oil from Brent Field (offshore tanker loading)
December	Brent	Development drilling commenced on 'D' platform

1976 Development Position in Shetland waters:

- No. of Named Oilfields with Development Plans Announced: 10**
Ninian, Brent, Thistle, Cormorant, Dunlin, Heather, Murchison, Beryl, Frigg, Statfjord. (Frigg and Statfjord are mostly serviced out of Aberdeen and Norway.)
- No. of Fixed Platforms Installed: 8**
Brent 3; Thistle 1; Frigg 3; Beryl 1.
- No. of Development Wells to be Drilled on Fields with Plans announced: 430** (excluding Frigg and Statfjord).
- No. of named Fields with no Development Plans announced: 6**
Tern, Lyall, Alwyn, Hutton, Magnus, North Cormorant.
- No. of Un-named Finds of Interest: 9**
3/4, 2/10, 3/28, 2/9a, 3/7 (separate structure from Ninian), 211/19, 9/19, 211/16-2, 211/18-12.
- Total No. of Operating Companies with Licence Block Interests Around Shetland: 35**

ONSHORE

Onshore facilities fall into the following categories:

- An oil terminal for the storage, treatment and exporting of oil and associated gas from the Brent and Ninian Pipeline systems.
- Oil Service Bases.
- Air Services.

1. The Oil Terminal

The terminal is situated on an 800 acre site at Sullom Voe (31 miles north of Lerwick). Construction of the first phase development began in February 1975 and is expected to be completed by 1980. The first phase includes the following facilities.

(a) **Surface crude storage tanks:** 15 of these are being constructed each of the following dimensions; capacity — 90,000 cubic metres; diameter — 76 metres; height — 22 metres (with floating roofs).

(b) **Ballast water storage tanks:** Initially 2 tanks of 60,000 cubic metres capacity will be built; diameter — 62 metres; height — 22 metres.

(c) **Power Station:** Initially of 96 megawatt capacity, it has planning permission for a greater capacity, should expansion of facilities warrant it.

(d) **Process steam boilers:** 5 in total consisting of: 2 x 75 tonne/hour units; 3 x 110 tonne/hour waste heat boilers.

(e) **Harbour facilities:** 1 Construction jetty — used for the transportation of materials for the site development. 3 tanker loading jetties — 2 purely for the loading of crude oil, the third for loading of oil or liquefied petroleum gas. There is a possibility of a fourth tanker loading jetty being built.

The Sullom Voe Terminal is expected to become operational in the third quarter of 1978, but oil flow in the two pipelines is not expected to reach a peak of 1 million barrels per day until the early 1980's. Until the pipelines are operational, oil produced offshore will be transported by tankers loading it from mooring buoys situated at the oilfields.

The Brent, Thistle, Dunlin and Cormorant Fields have been linked into the 162 mile long Brent pipeline system to Sullom Voe. Should the Hutton Field be developed, it is expected to link into the Brent System.

The Ninian and Heather fields have been linked into the 105 mile long Ninian Pipeline system to Sullom Voe.

Construction villages are being provided for the 3000 workers estimated as needed to complete the Oil Terminal. The first village at Firth was completed in 1976, and houses approximately 1100 men. The second village at Toft is in process of construction, and is expected to house about 1800 men. The first section of Toft is due for completion in July 1977, when the first residents of this village are expected to move in.

2. Oil Service Bases

5 Service Bases are operational in Shetland at the present time, 4 in Lerwick Harbour, and one at Sandwick, 17 miles south of Lerwick.

Base	Area in Acres	Berths Available
Shell	10	2
BP	2½	2
Norscot	40	9
Ocean Inchcape Ltd. (O.I.L.)		As required through Lerwick Harbour Trust
Hudsons Offshore, Sandwick	10	2

There is berthage for one supply boat at Scalloway, where facilities at Blacksness Pier are expected to be developed further.

Oil service vessels visiting Shetland:

	1972	1973	1974	1975	1976
Lerwick	151	328	838	1581	1679
Sandwick	—	34	110	99	114
Scalloway	—	1	5	7	16

3. Air Services

All air services continued to expand (see Transport statistics).

Helicopters based in Shetland in 1976 serviced vessels concerned with the construction of the Ninian and Brent pipeline systems; the fixed platforms on the Beryl, Frigg, Brent and Thistle Fields; other vessels on the said Fields; and semi-submersible exploration rigs. As the production phase develops, further expansion is envisaged.

A booklet is obtainable from the Research & Development Dept., Shetland Islands Council, which explains oil-related developments in greater detail.

Unemployment

Unemployment percentage at June each year:

	1969	1970	1971	1972	1973	1974	1975	1976
Shetland	6.2	4.1	3.8	3.7	2.2	2.2	2.9	3.5
Orkney	4.6	4.2	3.9	2.6	2.4	2.3	2.4	3.4
Western Isles	13.2	15.3	18.0	17.8	12.9	11.9	14.0	14.5
Grampian	2.8	3.0	3.7	3.6	2.4	1.8	2.3	3.3
Strathclyde	3.9	4.5	6.7	7.2	5.2	4.5	5.6	7.9
Scotland	3.3	3.8	5.5	6.0	4.3	3.6	4.7	6.7

Fire Service

Number of fires attended (Shetland as a whole):

	1972	1973	1974	1975	1976
Chimney Fires	26	13	13	16	21
Special Services (pumping out boats, properties, etc.)	11	2	2	8	13
Road traffic accidents, etc.)					
Property Fires	17	23	38	28	30
Small Fires (grass, rubbish, trees, etc.)	1	3	11	3	18
False alarm, good intent	3	2	1	—	4
False alarm, malicious	1	—	2	1	1
Total	59	43	67	56	87

1973: Volunteer fire units established in some country areas.

Crime

	1972	1974	1976
Number of Crimes and Offences	578	1303	1374
Class 1			
Crimes against the person	17	13	16
Class 2			
Crimes against property with violence	25	28	43
Class 3			
Crimes against property without violence	97	206	177
Class 4			
Malicious injury to property	3	13	32
Class 5			
Forgery and currency crimes	—	—	—
Class 6			
Others not included in above	4	13	11
Class 7			
Miscellaneous (Road Traffic, Litter Act, etc.)	432	1030	1095

Finance

REVENUE AND CAPITAL ESTIMATES: 1977/78

for period 1st April, 1976, to 31st March, 1977:

EXPENDITURE:	(Net) Revenue £	Capital £
Development	67,055	46,100
Planning	93,295	—
Highways	862,830	1,430,000
Lighting	34,355	—
Ferry Service	178,725	130,000
Piers & Harbours	106,830	25,800
Other Transport (inc. Airstrips)	30,940	260,000
Ports & Harbours	100,000 Cr.	11,121,000
Water	76,480	1,011,200
Sewerage	112,915	514,500
Education	2,897,725	2,145,000
Social Work	416,740	200,000
Housing	489,005	6,413,100
Leisure & Recreation	164,215	4,000
Environmental Health	357,715	29,500
Miscellaneous Services	324,122	132,300
Contingencies	248,000	—
	<u>6,360,947</u>	<u>23,462,500</u>

INCOME:

Government General Grants	5,339,567
Electricity & Transport contribution	34,120
Charged to rates	642,260
Balance brought forward	345,000
	<u>6,360,947</u>

Domestic Rate	£1.13 in the £
Non-domestic Rate	£1.40 in the £
Domestic Water Rate	£0.20 in the £

Total Rateable Value (Shetland) 2nd April, 1976; £446,477

Capital expenses are financed initially by borrowing which is repaid over a period of years.

REVENUE AND CAPITAL ESTIMATES: 1977/78

for period 1st April, 1977, to 31st March, 1978:

EXPENDITURE:	(Net) Revenue £	Capital £
Development	74,920	98,500
Planning	103,840	—
Highways	1,102,160	1,860,000
Lighting	38,360	—
Ferries	276,990	15,000
Piers & Harbours	—	209,000
Other Transport (inc. Airstrips)	91,080	25,000
Ports & Harbours	100,000 Cr.	18,173,000
Water	89,400	3,164,500
Sewerage	179,250	835,500
Education	3,494,675	3,161,000
Social Work	476,140	400,000
Housing	392,210	5,332,000
Leisure & Recreation	176,190	63,500
Environmental Health Services	402,560	190,000
Miscellaneous Services	425,024	130,300
Contingencies	125,000	—
	<u>7,347,799</u>	<u>33,657,300</u>

INCOME:

Government General Grants	6,505,009
Electricity & Transport contribution	40,000
Charged to rates	844,730
Balances brought forward	41,940 Debit
	<u>7,347,799</u>

Domestic Rate	£1.30
Non-domestic Rate	£1.61
Domestic Water Rate	£0.25

Total Rateable Value (Shetland), 10th January, 1977, £528,321.

Capital expenses are financed initially by borrowing which is repaid over a period of years.

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