Report of the Upton Mental Hospital management committee: group no.XVI for the year ended March 31st, 1951 / Liverpool Regional Hospital Board.

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Great Britain. Liverpool Regional Hospital Board.

Publication/Creation

[Macclesfield]: [printed by Times Printing Works], [1951?]

Persistent URL

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LIVERPOOL REGIONAL HOSPITAL BOARD

REPORT

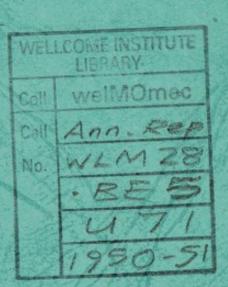
OF THE

Upton Mental Hospital Management Committee

GROUP No. XVI.

For year ended March 31st, 1951

Times Printing Works, Macclesfield.





LIVERPOOL REGIONAL HOSPITAL BOARD

REPORT

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Upton Mental Hospital Management Committee

GROUP No. XVI.

For year ended March 31st, 1951

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OFFICERS

OII	ICLKS
Medical Superintendent and Con- sultant Psychiatrist	C. L. COPELAND, M.B., Ch.B., D.P.M.
Deputy Medical Superintendent and Consultant Psychiatrist	CEDRIC HOLMES, L.R.C.P., L.R.C.S., (Edin.), D.P.M.
Consultant Psychiatrist	I. FROST, B.Sc. (Lond.), M.R.C.S. L.R.C.P., M.B., B.S. (Lond.), D.P.M.
Senior Hospital Medical Officer	A. S. W. BUCHANAN, L.R.C.P., & S., (Edin.), L.R.F.P. & S. (G), D.P.M.
Senior Hospital Medical Officer	W. V. A. ERSKINE, L.R.C.S., & P. (Edin.). L.R.F.P. & S. (G), D.P.M.
Senior Registrar	L. COUPER, M.B., Ch.B., D.P.M.
Registrar	VACANT
Junior Hospital Medical Officer	F. J. GALLAGHER, M.B., Ch.B.
Junior Hospital Medical Officer	M. E. GRANT, M.B., B.Ch.
Senior House Officer	WANDA SZAYNOK, M.D. (Poland).
Senior House Officer	B. M. EDGAR, M.B., B.Ch., B.A.O.
PART-TIME CONSULTANTS:-	
Consultant Psychiatrist	G. T. JAMES, B.Sc., M.B., B.Ch., D.P.M.
Mental Deficiency Adviser	N. FRASER MacKENZIE.
	M.B, Ch.B., D.P.M. (Edin.).
General Surgeon	H. L. WARREN WOODROFFE, B.A., M.B., B.Ch., B.A.O., M.D., M.Ch.
Ophthalmic Surgeon	E. F. WILSON, B.A., M.B., B.Ch., B.A.O.
Orthopaedic Surgeon	G. T. PARTRIDGE, B.A., M.A., M.B., B.Chir., F.R.C.S., M.R.C.S., L.R.C.P.
Radiologist	R. F. INNES, M.B., Ch.B., D.M.R.E.
Dermatologist	J. H. T. DAVIES, M.A., M.B., B.Ch., M.R.C.S., L.R.C.P.
Chest Physician	A. C. C. HUGHES, M.B., B.Chir., M.R.C.P., M.R.C.S., L.R.C.P.
Pathologist	W. H. GRACE, B.Sc., M.D. (Lond.), M.B., B.S., D.T.M. & H., D.P.H., F.R.C.P., M.R.C.S., L.R.C.P.
Ear, Nose and Throat	A. W. McCAY, M.B., Ch.B., F.R.C.S.
Physician	A. B. PAUL, B.A., M.A., M.B., B.Ch.
Obstetrician and Gynaecologist	J. G. WIGLEY, M.A., B.Ch., F.R.C.S., M.R.C.S., L.R.C.P.
Neuro Surgeon	A. SUTCLIFFE KERR M.B., Ch.B., F.R.C.S.
Dental Surgeon	T. BYRON PLACE, L.D.S.
C. of E. Chaplain	REV. JOSEPH PHILLIPS, B.A.
R.C. Chaplain	The SUPERIOR of the Franciscan Monastery, Chester.
Nonconformist Chaplain	REV. E. J. LAWSON, H.C.F., M.A.
Secretary and Finance Officer	FREDK. REGINALD MILLET, F.H.A.
Resident Engineer and Maintenance Officer	G. O. LONEY.
Supplies Officer	G. CATHERALL, A.H.A.
Matron-Upton Mental Hospital	EDITH BOSWELL.
Matron-"The Manor"	ELLEN HARTLEY.
Chief Male Nurse	WILLIAM PRITCHARD.
Senior Occupational Therapist	NESTA I. R. CLARKE
Catering Officer	FRIEDA A. WILSON.
Psychiatric Social Worker	ETHEL IRELAND.
Chiropodist	HERBERT LEONARD DEAN, M.Ch.S.
Radiographer	A. E. SMITH, M.S.R.
Senior Laboratory Technician	H. V. RIDPATH, F.I.M.L.T., M.R.I.P.H.H.
Chief Pharmacist	P. H. G. ROCHELLE, M.P.S., D.B.A.
Bankers	Westminster Bank Ltd., Chester.

Members of the Management Committee

Chairman: W. N. COPLAND, Esq.

Deputy Chairman: MISS A. L. BULLEY.

- G. ASTBURY, Esq., 4, Thamesdale, Whitby, Wirral.
- T. H. BATE, Esq., "The Grange," 79, Earlsway, Curzon Park, Chester.
- J. BELFORD, Esq., Green Gates, Beaconsfield Road, Woolton, Liverpool.
- Miss A. L. BULLEY, Birch Hey, Ness Holt, Neston, Wirral.
- A. R. CANNELL, Esq., Newlands, Hinderton Road, Neston, Wirral.
- A. CHARMLEY, Esq., 1, Kynaston Street, Chester.
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- H. D. ELLIDGE, Esq., 42, Osmaston Road, Birkenhead.
- Mrs. E. F. GARDNER, 78, Rodney Street, Birkenhead.
- Mrs. T. W. HARLEY, Hesketh Grange, Thornton Hough, Wirral.
- Dr. G. T. JAMES, "Cherry Haye," The Ridgeway, Gayton, Heswall, Wirral.
- Rev. E. J. LAWSON, 9, Chichester Street, Chester.
- J. C. LOW, Esq., 24, Cliff Road, Wallasey.
- W. MEE, Esq., "Beechwood," Burnley Road, Moreton, Wirral.
- Dr. MILES PARKES, "Helmsville," Hightown, Crewe.
- Dr. A. B. PAUL, 24, Blackfriars, Chester.
- Miss B. E. WILSON, The Hermitage, Allport Road, Bromborough, Wirral.
- Dr. H. L. WARREN WOODROFFE, Richmond Place, Boughton. Chester.

Report of the Upton Mental Hospital MANAGEMENT COMMITTEE

for the Year ended 31st March, 1951.

The Upton Mental Hospital Management Committee beg to present to the Liverpool Regional Hospital Board their Report for the year ended 31st March, 1951.

There were in the Upton Mental Hospital on the 1st January, 1950, 725 male patients and 1,017 female patients, which numbers became 720 and 1,010 respectively on the 31st December last, making a total decrease of 5 males and a decrease of 7 females.

The changes were as follows:-

		Males	Females	Totals
Admissions	 	191	351	542
Discharges	 	167	314	481
Deaths	 	29	44	73
		196	358	554
		— 5	-7	- 12
		-	-	

Total decrease of 12 patients.

The 1,730 patients are from the following Local Health Authorities' Areas:—

		1949).		1950).	Increa	980	Decre	980
	M.	F.	T.	M.	F.	T.	M.	F.		F.
Cheshire .	 303	463	766	285	466	751	-	3	18	_
Birkenhead .	 199	233	432	210	240	450	11	7	_	_
Wallasey .	 109	182	291	106	172	278	-	-	3	10
Chester .	 46	86	132	53	86	139	7	-	-	
Liverpool .	 12	41	53	11	32	43		-	1	9
Lancashire .	 4	6	10	4	4	8		-		2
Other Areas	 4	5	9	4	9	13		4	-	-
Private Patients	 _		-	-		_	-	-		neto-
Service Patients	 46	1	47	45	1	46			1	-
Broadmoor Patients	 2		2	2	_	2	-		_	
	725	1017	1742	720	1010	1730	18	14 18	23	21 23
								32		44 32
								Dec	rease	12

The authorised accommodation provided at the Hospital is as follows:—

Male		Female		Total
834	 	 1079	 	 1913

The following members of the staff have retired and have been placed on superannuation:—

	Years of Service
Dr. John McGlade	16
Mr. C. Martin (Deputy Chief Male Nurse)	39
Mr. R. Wynne (Male Nurse)	37

REPAIRS AND RENOVATIONS

The undermentioned departments of the Hospital have been renovated and decorated:—

Interior-Male Ward 6.

Female Wards-F. 1, F. 8 and F. 9.

A number of Staff Rooms.

Exterior—Decoration of the Annexe and Farm Buildings at Bache.

Various other repairs and decorations have also been carried out in regard to the Bache Hall Lodge and the central portion of the Isolation Hospital now occupied as residential quarters by the Deputy Chief Male Nurse.

CAPITAL EXPENDITURE

BACHE HALL

Alterations and renovations to the Bache Hall have now been completed. The Regional Hospital Board have delegated to the Management Committee the purchase of the furnishings and equipment for this building and it will shortly be opened and used for the Domestic Staff.

NEW STAFF KITCHEN AND DINING ROOM

The Engineering services and furnishing of the new Staff Kitchen and Dining Room are now complete and the Committee hope it will be functioning on the 1st April.

It is interesting to note that on the suggestions of officials from the Ministry of Health permission was given to engage a Catering Officer and an Assistant who are responsible for the planning of menus and the management and control of the kitchen staff, dining room, delivery of food to the Wards, etc., Miss Frieda Wilson, in her capacity of Catering Officer, commenced duty on the 19th February, 1951. The Ministry of Health also gave permission for creating a new post of Domestic Superintendent and her duties are the supervision and control of the Ancillary Staffs, such as resident and non-resident maids, cleaners, ward maids, etc., working in close co-operation with the Matron and her staff. Miss Hughes was appointed to this post on the 1st November, 1950.

The above appointments have made the posts of Housekeeper and Assistant Housekeeper redundant.

ISOLATION HOSPITAL

Tenders have been accepted by the Regional Hospital Board to adapt a portion of the Isolation Hospital to provide quarters for two Medical Officers.

"THE MANOR"

Tenders for the laundry and heating services at The Manor have now been accepted and it is hoped that the laundry will be operating in a few months time. The Regional Hospital Board have given permission to the Management Committee to purchase the necessary furniture.

At the Nursing Exhibition held at the Chester Town Hall in July of last year the Hospital made a valuable contribution by staffing a Mental Nursing Exhibit. This was a feature of the Exhibition which roused the greatest interest, particularly the products of the Occupational Therapy Department.

Two members of the Committee, Miss A. L. Bulley and the Rev. E. J. Lawson, together with the Matron, were invited to sit on the Nursing Recruitment Committee for the National Hospital Service Reserve, and an appeal for recruits was run in conjunction with this Nursing Exhibition.

An outstanding feature of the year relating to the Staff of the Hospital was the formation and inception of the Joint Consultative Staffs Committee, for which the Minister has laid down the procedure to follow. This Committee is now established and at work.

The Farms and Gardens Sub-Committee made their annual inspection of the farms and gardens in August and the Sub-Committee noted with satisfaction that the crops in all departments had been successfully gathered in.

The Secretary prepared Standing Orders relating to Contracts and after submitting same to the Legal Adviser to the Regional Hospital Board these were approved by the Management Committee. It is with much regret that ill-health caused the resignation of Dr. John McGlade, Junior Hospital Medical Officer, after a long and much appreciated period of service. He was well liked by both the patients and staff and had given many years of useful service to the Hospital. His post was filled by Dr. M. E. Grant who commenced duty on the 9th February, 1951.

Dr. B. M. Edgar commenced duty as Senior House Officer on the 30th December, 1950.

Mr. Charles Martin, the Deputy Chief Male Nurse, retired on pension after 39 years' service. He was a popular and familiar figure in the Hospital. Mr. T. J. Catherall was appointed to the vacancy.

Miss H. E. Pritchard commenced duty as Assistant Matron on the 1st November, 1950.

The Committee wish to acknowledge with thanks a gift of £250 from the Regional Hospital Board's Endowments Fund to provide Stage Curtains for the Recreation Hall, and also a gift of £150 from the Merseyside Hospitals Council with which money we were able to purchase a Grand Piano for the Stage of the Hall.

It is to be regretted that owing to the financial stringency some of the schemes the Committee would like to put into operation have had to be deferred. It is to be hoped that in the near future more money for developments and capital expenditure will be available.

I would like to express on behalf of the Management Committee my thanks to all the Officers concerned who have during the past twelve months done their utmost to operate the two Hospitals as efficiently as possible within the limits to which we have been allowed.

With regard to the staffing, I would like the Board to appreciate the fact that whilst it is true we are considerably understaffed, we have been able to maintain the services on a fairly efficient basis. During the influenza epidemic we were put to great inconvenience in maintaining a satisfactory service, but the loyalty of the staff, many of whom worked considerably long hours during the epidemic, allowed us to do so.

I look forward to a continuance, not only to the efficient maintenance of the services, but also to the good relations which have existed between all members of the staff and the Management Committee.

W. N. COPLAND.

Chairman.

Report of the Medical Superintendent for the Year 1950.

Upton Mental Hospital,

Chester.

February, 1951.

Mr. Chairman, Ladies and Gentlemen.

I have the honour to submit the Annual Report of the Medical Superintendent for the year 1950.

The following summary shows the changes in the Hospital population:—

	M.	F.	T.	M.	F.	T.
Number of patients on the						
books, 1st January, 1950				725	1017	1742
Admissions:—						
Direct	176	334	510			
Transfers	15	17	32			
	-					
Total number of admissions				191	351	542
					-	-
Total number under treat-						
ment				916	1368	2284
Discharges and removals	167	314	481			
Died	29	44	73			
				196	358	554
Remaining on 31st December,						
1950				720	1010	1730
Authorised accommodation				834	1079	1913
One Male Ward shut-beds						
available now				793	1079	1872
Excess or deficiency in						
accommodation				+73	+69	+142

Admissions.

The total number of admissions during the year was 542 (191 males and 351 females). Thirty-two of these were transferred from other Mental Hospitals (15 males and 17 females); 348 were Voluntary Patients (116 males and 232 females); and 3 Temporary Patients were admitted.

During March and April a Mass Radiography Unit was at this Hospital and X-rayed staff and patients. As a result 6 male and 6 female patients were found to have unsuspected tuberculosis. There are now 16 male and 18 female known active cases of tuberculosis. Dr. A. C. C. Hughes, Chest Specialist, from Chester, visits regularly to advise in the treatment and diagnosis of these cases.

Chiropodist.

Mr. H. L. Dean, the Chiropodist, attends for three sessions a week and has given 675 treatments to 222 patients and staff.

Special Treatments.

During the year 158 patients left the Hospital after Electro Convulsive Therapy. One hundred and seventeen of these were completely recovered and 33 substantially improved. In all 221 patients received this treatment.

The Deep Insulin Coma Unit for the treatment of Schizophrenia ran continuously throughout the year and 48 patients received this treatment. The results were as follows:—

Complete remission .				18)	All discharged
Incomplete remission .				11 }	from the
Partial remission				3	Hospital.
Institutional Amelioratio	n			8	
Unchanged				5	
Treatment discontinued	bec	ause	of		
physical complications				3	

Dr. W. V. A. Erskine and Dr. Lewis Couper have worked on a new inhalation treatment which has been little used in this country as yet. It consists of letting the patient breathe a mixture of 30% Carbon Dioxide in Oxygen and is used chiefly for neuroses from the Out-Patient Clinics. Fifty patients received this treatment and 23 showed improvement.

Leucotomy.

Ten major surgical operations were performed during the year. The Leucotomy operations are still carried out at Winwick Mental Hospital under the Regional arrangements, but the patients return to us for their after treatment. Special Occupational Therapy Centres for Leucotomy patients have been opened in F.14 and M.1 wards during the year and are proving of value. In 1950 a further 23 of our patients had this brain operation carried out. The results of all our Leucotomy patients from July. 1947, to the end of January, 1951, are as follows:—

- 70 patients have now had the operation.
- 19 patients have been discharged recovered.
- 6 patients have been discharged relieved into the care of relatives.
- 28 patients have shown improvement, are still with us, and further improvement is expected in some of these.
- 13 patients have shown no improvement so far, but some have only recently had the operation.
- 4 patients died. Three of the deaths were associated with the operation. There have been no deaths this year.

In considering the results of Leucotomy operations two points must be borne in mind: Firstly, the operation is only performed in cases where other forms of treatment fail to produce recovery; and secondly, slow improvement takes place for two years or more afterwards.

Out-Patient Clinics.

The Psychiatric Out-Patient Clinics as a whole continue to expand. The new Clinics at Ellesmere Port and Runcorn, and Clinics opened by the Regional Board in Birkenhead, have at last relieved the pressure on the original Chester Royal Infirmary Clinic which was in danger, from mere pressure of numbers, of becoming a diagnostic clinic instead of a treatment clinic. An appointment system for patients obtains at each Clinic. The following table gives an indication of the work of these Out-Patient Clinics in 1950 and it is still of interest to compare with earlier years quoted underneath:—

Year	1950.	Chester Royal Infirmary.	Runcorn Victoria Memorial Hospital.	Ellesmere Port Hospital.	Totals in 1950.
New o	cases	. 357	104	104	565
A TOTAL STATE	dances	844	238	234	1,316

In 1949 there were 482 new cases and 1,086 attendances. In 1948 there were 357 new cases and 791 attendances.

In 1938 there were 69 new cases and 182 attendances.

Occupational Therapy.

Three more Occupational Therapy Centres were opened during the year. There are now 6 special Centres open for this work—F.12 and M.12 Admission Wards each has its own Centre attached to the ward; Allentown provides for the male Main Building and a new female Centre has been opened underneath the Sewing Room for the female Main Building. The Leucotomy patients are now specially provided for in M.1 and F.14 as mentioned above.

Social Amenities.

A patients Badminton Club has been started at the Annexe, Dr. Lewis Couper gives weekly sessions in Musical Appreciation, A billiard table has been obtained for M.5 and a bagatelle table for M.10 ward. Now all male wards have billiard tables except M.7 sick ward. Some of the ward gardens have been provided with garden tables and coloured umbrellas for hot weather. A Chester firm now attends the Hospital with new clothes so that patients able to buy their own clothes can make their choice. A television set has been provided for F.13 ward. The twice weekly cinema performances, the weekly patients dance, concert parties and entertainments all continue as usual. The arrangements made for inter-ward games and competitions of various kinds. both indoor and outdoor, continue to flourish. Physical training classes, visits to pantomime in Chester and charabanc outings have gone on as usual. It is of interest to record that 2,115 books were added to the patients library during the year, making a total of 9,481 extra books since April, 1945.

Nursing Training.

Twenty members of the nursing staff have passed the Preliminary General Nursing Council's Examination. The first candidates for the Final Examination do not sit till 1951. The Royal Medico Psychological Association examinations come to an end in 1951 and there are now few candidates left to sit for this, but in 1950 three nurses obtained the Final Certificate. The Preliminary Training School has had a successful year under the Senior Tutor Mr. Nutter. The external examination results showed 80% passes. So far four men and one woman have returned from General Training and have enabled us to promote some of them; Mr. T. J. Catherall to Deputy Head Male Nurse, replacing Mr. Martin, who retired on November 11th; Mr. S. Collins to the post of Male Night Superintendent; Mr. R. C. Salisbury to Assistant Male Tutor, replacing Mr. Lloyd, who left in May: and Nurse Owens to Sister of F.10 sick ward. There are at present four men and two women still away for General Training.

Nursing Staff.

The improvement in the number of nurses recruited has been very slight; we are still short of 61 (last year 64) male and female nurses for a 48 hour week. We are using 94 (last year 81) part-time nurses, who work a 30 hour week. Male 13 open-door ward was reopened on April 24th. Male 11 is now the only ward still not in use owing to a shortage of male staff.

Catering.

The new Staff Kitchen and Dining Room is still not open. This scheme was started in 1945 and met continual difficulties in supply and finance. During 1950 the whole of the equipment arrived and has been installed, but there is still difficulty with the steam pipe line. The long needed replacements of the steamers and boiling pans for the Main and Annexe Kitchens are now completed, Miss V. Campion. Housekeeper, and her Assistant, Miss E. Whittle, did excellent work placing our catering arrangements on a better footing. Unfortunately, they left in November, largely owing to difficulties arising from the delay in completing the new Staff Kitchen. Officials from the Ministry of Health paid a special extra visit to the Hospital to advise on their replacement and strongly recommended that their work should now be split up into Catering Officer, Assistant Catering Officer, and that a Domestic Superintendent should also be appointed. This was agreed to by the Committee and the Regional Board. Miss Elizabeth Hughes was secured as a temporary Domestic Superintendent. Miss F. A. Wilson and Miss M. Wolfman were appointed to the catering posts and commence on February 19th, 1951.

General.

During the year much needed new ward furniture arrived and the Entertainment Hall was equipped with nesting chairs. Intensive external painting was carried out in the summer and the interiors of wards M.6, F.9 and F.1 were painted in the winter. A mechanical shovel was obtained to deal with the Engine House ashes which were piling up faster than our means of transport. The Tinsmith's Shop was moved to a new site at the Stick Shed and the former site was converted into a cloakroom and washing facilities for the Artisan Staff, as required under the Factory Act. As a hygienic measure the small grass court attached to the female Dysentery ward, F.7, was laid down in concrete.

Changes in Staff. The following changes in staff in addition to those reported above occurred during the year 1950:

Dr. D. H. Jones, Senior Registrar, left on January 25th, to a more senior post at Abergavenny and was replaced by Dr. Lewis Couper on March 3rd.

Dr. Alwyn Griffiths, Middle Registrar, left on March 4th
—his post is still vacant.

Dr. W. Szaynok commenced as Junior Registrar on April 16th and Dr. Brian Edgar commenced on December 30th as Senior House Officer. We have at last succeeded in filling the two Senior Assistant Matron vacancies. Miss T. Cross commenced on March 24th and Miss H. E. Pritchard in November.

Mr. C. Martin, Deputy Head Male Nurse, retired on pension on November 11th, after 39 valuable years service to the Hospital. He had been Deputy for 15½ years.

Conclusion.

Another year has now been worked under the Health Service Act, unfortunately shadowed by financial cuts and difficulties which retard the up-grading of the Hospital. Rising prices add to the difficulties of fitting into the estimates. The nursing staff shortage remains a problem and heavy burdens still fall on the officers and staff. More could be done for our patients if there were more staff. In spite of the difficulties I am glad to be able to put on record that all concerned have done their best to surmount them.

It gives me special pleasure to have had the Chairman back amongst us after his serious illness, and to again have the benefit of his advice.

May I thank also all the members of the Committee for their continued support.

> Mr. Chairman, Ladies and Gentlemen, I have the honour to be Your obedient Servant.

> > C. L. COPELAND.
> >
> > Medical Superintendent.

The Management Committee. Upton Mental Hospital, Chester.

Report of the ACTING SUPERINTENDENT AND MATRON for the year 1950

"The Manor,"
(M.D. Institution),
828, Chester Road,
Great Sutton,
Wirral.

8th March, 1951.

Mr. Chairman, Ladies and Gentlemen,

I have the honour to submit my Annual Report for the year 1950.

Steady progress has been made throughout the year, in this, the first complete year, at "The Manor" premises. The number of new patients admitted during the year was eleven, and the year closed with a total of thirty-one patients on the register.

The premises are still as yet incomplete and, at the end of the year, it had not as yet been possible to instal the mechanised laundry. The continued absence of the laundry, combined with staffing difficulties, has not yet made it possible to take up the full bed complement. When the laundry is completed, it will be possible to utilise "The Manor" premises for the purpose for which it is so well suited-the care and training of the higher grade unstable types. Nonetheless, the admission of new patients continued throughout the year until November, when staffing difficulties became more acute, and it was necessary to suspend further admissions pending an improvement in the staffing position. Following a decision of the Committee that in the event of inability to appoint resident Nursing staff, non-resident staff should be engaged, the position was considerably eased at the end of December by the appointment of four new Ward Orderlies who. though non-resident, enabled a nearly normal occupational programme to be resumed.

PATIENTS' OCCUPATIONS

The interim programme of occupations continues to be satisfactory in occupying and training the patients, and continues to be divided into three main spheres of activity.

(1) Housekeeping and domestic training.

The house is a large one, not designed for economy in labour, and provides plenty of opportunities for domestic work of all kinds. The staff shortage has also presented an opportunity for the patients to take a greater share in the domestic work than they would normally do. All the patients at different times share in this part of the work and, in the cases of those patients who are proving most adaptable to housework, the standard of competence is steadily rising.

For nearly four months, in the absence of a cook, two of the patients acted as Assistant Cooks, and carried out their temporary duties most creditably, and were well worthy of the extra financial recognition accorded them by the Committee.

(2) Needlework and Craft Work.

Much fine embroidery work, knitting and needlework generally has been carried out. Twenty patients have been engaged in dress-making and have been able, with appropriate supervision and help, to make their own dresses.

There has been a considerable extension of rug-making, with the introduction of rug-making on frames with brightly coloured felt clippings. Many such rugs have been made, and have added to the comfort and cheerfulness of the various rooms.

(3) Garden Work.

All patients have shared in some aspect of this work throughout the year, though normally the party of patients working in the Kitchen Garden does not exceed ten in number.

Greater interest has been stimulated in floral gardening by the introduction of two competitions, in which all patients participated. In Spring, a bulb-growing competition was held and, during the Summer each patient sowed, planted and cared for her own window box. The prize-winning efforts were judged by a visiting garden expert.

RELIGIOUS INSTRUCTION

This continues on the same lines as last year. On Sunday mornings a party of patients attend the Parish Church, on Sunday evenings a service is held in the house and, during the week, services are held in the house by Pastor MacFarlane and his helpers from the Chester City Mission. We are much indebted to Pastor MacFarlane and his helpers for the good work they do.

PHYSICAL TRAINING

Regular classes have been held throughout the whole year. In Summer, group exercises and physical drill have continued out of doors when possible and, in the autumn, an innovation was the introduction of Morris dancing under the training of Miss Laker, dance instructress. A display by fifteen of our girls of Morris Dancing was given at one of the mixed socials at Newchurch Hospital and drew much appreciation. Organised games on the lawn continue to be a feature, and are held at every opportunity.

PATIENTS' ENTERTAINMENTS

The main development in this sphere has been the extension of the inter-hospital socials and functions which, by stimulating new interests in the patients and widening their mental horizons, should play an important part in their rehabilitation.

Our patients attended the Annual Sports at Newchurch Hospital, mixed dances with Newchurch Hospital and Greaves Hall (male) patients at Newchurch Hospital, and also attended the Newchurch patients' Annual Christmas pantomime.

Two visits were paid to Ashton House and, besides the pleasures of the social gathering, special entertainments were provided by Ashton House in a visit to a local cinema and a visiting Concert Party.

At the Newchurch Hospital Sports, our patients played a very creditable part in competition with patients from the other Mental Deficiency Hospitals, and we were particularly pleased to win the Silver Cup presented for the successful Hospital in the Relay Race.

On the 12th July, our own Sports Day was held and, favoured by fine weather, the event proved successful and enjoyable. Patients from Ashton House and Newchurch Hospital also attended and the inter-hospital flavour added zest to the various events. In the evening, a display of Morris Dancing was given by pupils of Miss Laker from the village.

On the 11th March, patients from Newchurch Hospital and Ashton House joined in a social with our patients and, in addition to competitions on the lawn, prizes were presented to the successful bulb growers.

On the 17th May, thirty male patients from Greaves Hall were entertained to games on the lawn and supper afterwards, by our patients. Another Gala Day was the Autumn Social of 7th October, when again parties of patients from Newchurch Hospital and Ashton House competed with our girls in games on the lawn. Later, prizes were presented to the winning patients in the Window Box competition.

Other outings enjoyed by the patients have included visits to Chester Zoo, to the pantomime in Chester early in the year, and trips to Chester Cathedral and on the river.

Cinema Shows.

At approximately monthly intervals, special cinema shows, mainly educational in nature, have been given by Dr. MacKenzie on a 16 m.m. Portable Talking Cinema Apparatus.

X-RAY AND LABORATORY EXAMINATIONS.

Mass X-Ray Survey.

During March, all patients had their chests X-rayed at Upton Mental Hospital and, in no case, was any sign of active tuberculosis detected.

In addition, all subsequent admissions have had their chests X-rayed and all patients have had complete examinations of the blood and urine.

MEDICAL CARE.

The health of the patients generally has been good, and there have been no cases of infectious disease. Associated with the unusually severe Winter, there were more than the usual number of seasonal colds during December.

One patient has attended Chester Royal Infirmary for treatment for chronic rheumatism.

Dr. N. Fraser MacKenzie attends to the psychiatric welfare of the patients. Dr. A. B. Paul is responsible for the day by day physical care of the patients. All patients have had dental review and attention during the year by Mr. T. Bryon Place.

STAFF CHANCES.

Deputy Sister M. Dolman, who had commenced duty on 1st August, 1949, resigned from the staff on 4th October, 1950, on receiving promotion in another hospital.

Ward Orderly M. Davies, who had commenced duty on 20th June, 1949, resigned from the staff on 22nd November, 1950, to take up similar duties in another hospital.

Cook E. Roberts, who had commenced duty on 1st October, 1948, resigned from the staff on 1st September, 1950, on promotion to a higher grade in another hospital.

Ward Orderly A. Gerrard, who had commenced duty on 16th September, 1950, resigned from the staff on 16th December, 1950, for personal reasons.

Ward Orderly L. Greenway, who had commenced duty on 31st December, 1949, resigned from the staff on 6th July, 1950, to take up a post in private service.

New Appointments.

Cook E. Alsopp commenced duty on 1st January, 1951. Miss Alsopp has had considerable experience of institutional cooking.

Ward Orderly (non-resident) Mrs. A. Lloyd commenced duty on 26th December, 1950.

Ward Orderly (non-resident) Mrs. C. A. Rice commenced duty on 18th December, 1950.

Ward Orderly (non-resident) Mrs. E. A. Stretch commenced duty on 18th December, 1950.

Ward Orderly (non-resident) Mrs. W. Noblett commenced duty on 19th December, 1950.

Despite repeated efforts, it had not been possible by the end of the year to fill the vacant posts of Deputy Sister and Staff Nurse, and there is no doubt it would be very much to the advantage of the house and in the management and care of the patients generally, if these two posts could be suitably filled.

VISIT.

The Board of Control, represented by Miss A. J. Crozier, Inspector, paid the official visit to "The Manor" on 18th July.

NEW EQUIPMENT.

A large size Refrigerator was installed in August, 1950, and a radiogram with extension speakers in the Conservatory, Day Room and Recreation Room was installed, and is regularly used for radio programmes and dancing lessons.

STATISTICAL TABLES FOR 1950. PATIENTS ON THE REGISTER DURING THE YEAR 1950.

GENERAL STATISTICAL TABLE FOR 1950.

	-	TENERAL STATISTICA	YL.	IND	DE POR 19	00.	
Number	of	patients on the Regist	er	at 1s	t January,	1950	 23
Number	of	patients in residence a	t 1s	t Jan	nuary, 1950		 21
Number	of	patients on trial licence	at	1st	January, 19	50	 2
Number	of	patients admitted unde	r O	rder	during the	year	 11
Number	of	deaths during the year	r			***	 Nil
Number	of	discharges during the	year	r			 1
Number	of	transfers to other insti	tut	ions	during the	year	 2
Number	of	patients on the register	at	31st	December,	1950	 31
Number	of	patients in residence	,,	,,	,,	,,	 29
Number	of	patients escaped	,,	,,	,,	,,	 1
Number	of	patients on trial licence	,,			,,	 1

I wish to thank Dr. N. Fraser MacKenzie for his help and guidance in all matters relating to the treatment and management of the patients, also Dr. A. B. Paul for the care and attention he shows in attending to the physical welfare of the patients.

My grateful thanks are also due to Mr. Millet, Secretary, and Mr. Catherall, Supplies Officer, for their helpful co-operation at all times.

It is with much gratitude I wish to record my thanks to Mr. Belford, the Chairman, and all members of the House Committee, for their unfailing help, consideration and support to myself throughout the year.

Mr. Chairman, Ladies and Gentlemen,
I have the honour to be,
Your obedient Servant.

ELLEN HARTLEY.

Acting Superintendent and Matron.

The Chairman and Members of the Management Committee,
Upton Mental Hospital,
Chester.

COMMISSIONERS' REPORTS

Upton Mental Hospital, Chester.

December 7th, 1950.

The increase in the numbers of patients admitted here as voluntary patients is the most striking feature of the picture presented by the hospital to-day. The figures from 1946 onwards are:—

Year.	M.	F.	Tota	al					
1946	29	33	62	or	20%	of	the	direct	admissions.
1947	27	25	52	or	17%	of	the	direct	admissions.
1948	27	40	67	or	20%	of	the	direct	admissions.
1949	62	124	186	or	37%	of	the	direct	admissions.

The numbers for the current year amount, up-to-date, to 63% of all direct admissions. The increase on the women's side has been marked since the ward for female voluntary patients was opened in October, 1948. A similar ward for men was opened in April, 1950, also in a unit previously used for other types of patient. But it seems probable that the main reason for the increase is to be found in the extension of Out-Patient clinics which has taken place recently. In addition to the weekly sessions at Chester Royal Infirmary attended by four of the Upton Medical staff, Runcorn Victoria Hospital and Ellesmere Port Hospital each enjoy the services on one day a week of two more members of it, while clinics are held three times a week at Tranmere, once at Clatterbridge General Hospital and once at Smithdown Road (Sefton Hospital) by Dr. James the non-resident Psychiatrist attached to Upton. It is unfortunate that all this extra-mural work has to be done without the assistance of a Psychiatric Social Worker. The appointment of such an officer was authorised approximately five years ago by the Visiting Committee, but it has not been possible to secure the services of a properly qualified worker. Meanwhile the Duly Authorised Officers, we were informed, give as much assistance as they can in the cases which come within their sphere of duty, they cannot, of course, be proper substitutes for a Psychiatric Social Worker.

Several patients with no income of their own from any source asked whether they could receive pocket money. There is a free issue of tobacco to a large number of men, but the women have no corresponding privilege. The Hospital Management Committee might wish to make similar arrangements for both sides in this

respect (substituting sweets for tobacco on the female side), but no doubt they will first consider the whole question of awards to patients and the principles indicated in the Ministry of Health Memorandum (H.M.C./49/20) which deals with this matter.

There has been some development of occupation therapy throughout the hospital since the last visit. In addition to the main occupation rooms on each side in the Annexe another centre has been opened on the female side of the Main Buildings, and two centres, a small one for men and a larger one for women, have been established exclusively for post-leucotomy cases. Mrs. Clarke has two qualified assistants, but there are vacancies for one male and one female therapist. Negotiations with the Local Education Authority for the services of an officer who could organise group activities are taking place, and a member of the medical staff is giving lectures, warmly welcomed, upon music appreciation.

The Library is contained in two different parts of the Hospital. The space at Allentown, the utility Occupation Centre, is used mainly for the storage and issue of books to wards. The other section, which is at the centre of the Main Buildings has room for reading purposes, although it does not appear to be used for this, but the stock of books was comparatively small. The Committee might wish to consider the facilities afforded by the British Red Cross Society for the establishment of hospital libraries. In any event we think that the present arrangement is not a good one; the books should be contained in one room; there should be a reading room to which parole patients could come as a change from their own wards; and the control should be exercised by someone able to devote most of his or her time to the work.

The clothing provided for patients appeared to be satisfactory, but in one male ward at least the stock of overcoats was insufficient and patients taking exercise in the ward garden were in one or two instances without them and complained of the cold.

A good deal of repainting has been done in the last year and we observed new and modern furniture in some of the wards which need it. Every ward for men except the sick ward now has a billiard table. Among other improvements we were glad to see that a sink with hot water supply had been provided for the patients nursed on the verandah of F.7, where tuberculosis is treated; the corresponding male ward already has this equipment. It is hoped in the course of time to instal in every ward gas hot closets, water boilers and boiling tables. In the basement of the main building consulting rooms for a physician and ophthalmic surgeon have been provided. Re-equipment of the Main and the Annexe Kitchens has been completed. The old Dining Room in the 1829 Building has been converted into a sewing room, and the former

sewing room is now being furnished and fitted as a Staff Canteen. Bache Hall Farm Building has been modernised to accommodate domestic staff.

There were 1,725 patients (721 men and 1,004 women) upon the statutory books to-day; all were in residence. The present staff of nurses including reliefs and excluding administrative staff numbers 112 men and 105 women, employed upon full-time duties and 96 women who give part-time service. Of the men 68 are certificated or registered as Mental Nurses and 7 are nursing assistants; of the women employed full-time 54 are certificated or registered Mental Nurses and 51 are nursing assistants; for the women employed part-time the corresponding figures are 12 and 84 respectively. Twenty-six men and 7 women (full-time) have passed the preliminary examination. The normal hours of duty are 48 per week.

The Training School for nurses and the Preliminary Training School are established on a sound basis with a Male Tutor and an Assistant Tutor. Eight men and 2 women who have qualified as Mental Nurses are at present seconded for General Training. Four men and 1 woman have now returned to the Hospital after being seconded for this purpose and are now registered both as General and Mental Nurses.

Direct admissions during 1949 amounted to 502, or 181 men and 321 women. The proportion of admissions upon a voluntary basis has already been mentioned. Four women were received upon applications for Temporary treatment.

Since the last visit 13 men and 17 women have been admitted under Section 20 and 32 men and 78 women under Section 21 of the Lunacy Act, 1890. Four men have been received as voluntary patients under the terms of Probation Orders made by virtue of Section 4 of the Criminal Justice Act, 1948.

The facilities for treatment in the hospital have been greatly improved. A section of the Annexe has been set apart for Deep Insulin Therapy and rooms are available for giving Electric Shock treatment apart from the ward dormitories in ordinary use. A recent development is the use of Meduna's Carbon Dioxide Therapy for selected cases. We were informed that some of the results have encouraged the belief that a useful addition to treatment has been found.

There have been no epidemics of infectious disease; only two cases of Dysentery (Flexner) have been reported in 1950. Tuberculosis continues to be disturbingly frequent, and in 1949, 8 male and 2 female patients were notified as suffering from this disease. Mass radiography of patients and staff was undertaken in March

and April of the present year. Six male and ten female cases were discovered and brought under immediate treatment. The present numbers of active cases is 16 male and 18 female. Treatment is being carried out under the guidance of Dr E. C. C. Hughes, Chest Specialist in Chester.

The services of a Technician and an Assistant Technician for the Pathological Laboratory have now been obtained and the hospital is not now dependent for this purpose upon the assistance, which was greatly appreciated, of the staff of the Chester Royal Infirmary.

During 1949 there were 86 deaths (37 men and 49 women). The percentage of 5% is below the average for all public Mental Hospitals in England and Wales.

During 1950 the Consultant Medical staff have paid as many as 75 Domiciliary visits, and this work appears to be increasing. The three consultants are Dr. Copeland, Dr. Holmes and Dr. Frost; Dr. Erskine and Dr. Buchanan are Senior Hospital Medical Officers; Dr. Couper and Dr. Szaynok are Senior and Junior Registrars respectively, while Dr. Gallagher and Dr. McGlade are Junior Hospital Medical Officers. We are indebted to Dr. Copeland and to all of those members of the staff who have accompanied us or furnished us with information in the course of our visit.

(Signed)

W. REES THOMAS,

Senior Commissioner.

H. P. GREEN,

Commissioner of the Board of Control.

The Manor,

Great Sutton,

Cheshire.

July 18th, 1950.

Thirty patients were in residence when I visited The Manor to-day.

This home is now run entirely for mental defectives varying little in grades and broadly speaking, in need of the same treatment and control.

The home is set well back from the main road and freedom and privacy is ensured by attractive trees and shrubs.

Occupations are still domestic and gardening with some handicrafts. The handicrafts might be extended and a wider variety of articles produced. Nothing further has been done about the laundry, except that the roof has been repaired. This seems a pity as not all these girls are likely to prove suitable for licence and laundry work under supervision is a very useful occupation.

Pocket money in varying sums is paid weekly. Recreation has been given much attention and social intercourse with the three other mental deficiency hospitals in the group is being encouraged. Sports day was a success and much enjoyed. It was with great pride that The Manor carried back the silver cup which they won in competition at Newchurch Homes Sports. A radio set, with extensions has been installed. P.T. and dancing are practised regularly.

The general health has been good. All patients have had a physical overhaul and have been mass X-rayed with negative results. Bloods have also been tested during the last six months. Fire drill has been introduced and electric press buttons attached to the fire escapes.

The house was in good order. A start has been made on providing new and more comfortable beds. When financial conditions allow, perhaps the Committee will consider installing a refrigerator to ensure fresh food.

There is a shortage of two staff but a holiday relief is expected.

I was escorted round the house by Dr. Mackenzie and Miss Hartley, the Matron. I would thank them for an interesting visit.

(Signed)

A. J. CROZIER.

Inspector of the Board of Control.

REPORTS OF THE CHAPLAINS

The Vicarage,

Waverton.

Chester.

26th February, 1951.

Mr. Chairman, Ladies and Gentlemen.

It affords me much pleasure, as Church of England Chaplain to the Upton Mental Hospital, to present to you the Fourteenth Annual Report for the period ended 31st December, 1950.

I have endeavoured to carry out the duties allotted to me, by visiting the wards, and paying special attention to the sick.

RELIGIOUS SERVICES

The above services have been held during the year. Special observance was given to Good Friday and Christmas Day as well as to the Christian Festivals of Easter, Whitsuntide and the Harvest. Holy Communion has been celebrated on the third Sunday in each month. One greatly appreciated feature has been the musical side of our worship which has been well maintained by the organist, Miss M. D. Baker, A.T.C.L., who has been able occasionally to arrange for a visiting choir or soloist to assist us. On the whole, congregations have not been up to the average in numbers of previous years, particularly on the male side. I cannot speak too highly of the helpful co-operation of the staff. Without this the services could not be carried on so pleasantly and with the conviction that they are of some substantial help in carrying out the objects of the Institution.

ENTERTAINMENTS

These have been continued throughout the period and must be considered as of therapeutic as well as of social value. The patients' football matches, talkies, radio, with numerous indoor games, such as billiards, draughts, rings, etc., are greatly appreciated by the patients. Around Christmas and New Year a special programme of entertainments was arranged. The chief item was the Patients' Fancy Dress Ball, which was arranged for the evening of December 28th. The staff with their usual unselfish zeal rose nobly to the occasion.

My thanks are due to the visiting concert parties for the splendid entertainments they provided

GRATITUDE

My most sincere thanks are due to all the staff for their kind co-operation and valuable assistance.

In conclusion, Ladies and Gentlemen, I thank you for the deep interest you display and for the time you so ungrudgingly give to the affairs of the Institution.

I remain.

Mr. Chairman, Ladies and Gentlemen, Your obedient Servant,

JOSEPH PHILLIPS.

Church of England Chaplain.

To:—The Chairman and Committee of Visitors, Upton Mental Hospital, Chester.

Franciscan Friary,
Grosvenor Street,
Chester.

10th, February, 1951.

Mr. Chairman, Ladies and Gentlemen,

I have great pleasure in presenting my report for 1950.

During the past year I have endeavoured to carry out my duties conscientiously and to the best of my ability. In the performance of these duties I have visited the wards each week, and where circumstances have required, special visits have been made to patients.

Holy Mass was celebrated every Sunday morning at 9 o'clock, as also on Christmas Day. A special service was held on Good Friday. I am pleased to report that attendance at Holy Mass has been quite satisfactory. The staff—Catholic and non-Catholic—are to be commended for the way they bring the patients to Mass. Patients are on the whole well behaved and attentive during the Sunday services. Holy Communion is given to those who wish to receive and who are capable of doing so.

Notification of a patient who has been either seriously or dangerously ill, has been sent at all times, and that without delay. Last year the Sacrament of Extreme Unction was given to twenty patients. I am glad to say that the majority of these recovered. Four received Holy Communion on their death beds. Holy Communion is also given in the wards to those who wish to receive it, provided they are unable to go to the chapel by reason of some physical infirmity.

I have much pleasure in stating that I receive from all members of the staff every courtesy and willing help, and for this I am sincerely grateful. To all members of the staff I want to express my gratitude and appreciation for their ever willing co-operation during the past year. Everything is done to help me to carry out my duties in the Hospital as Roman Catholic Chaplain.

I am, dear Ladies and Gentlemen, Your obedient Servant.

VINCENT GIBLIN, O.F.M.Cap.,

Acting R.C. Chaplain.

To:—The Chairman and Committee of Visitors.
Upton Mental Hospital.
Chester.

9. Chichester Street,

Chester.

February, 1951.

Mr. Chairman, Ladies and Gentlemen.

I have the honour to present to you my report for the year 1950.

ACKNOWLEDGMENTS

As in former years I have been indebted to the Medical Superntendent, Matron and Members of the Medical and Nursing and Administrative Staffs of the Hospital for the goodwill and sympathy they so freely give. In particular let me record the practical co-operation of the Head Gardener and his staff who provide decorations for the Chapel at all the great festivals of the Christian year, and flowers for the altar whenever they are in season. At Christmas, Easter and Harvest Thanksgiving the Chapel services reach a high level of significance because of the attention given to the setting in which they are held.

My relations with my colleagues continue to be of the most friendly character.

RELIGIOUS SERVICES

The Sunday services were well supported during the year especially in the afternoon.

Holy Communion was regularly celebrated on the second Sunday of the month, and at Christmas, Easter and Whitsuntide. At these festivals suitable addresses were given, and special music rendered. Miss Baker, our chapel organist, made a valuable contribution to the success of these services which were largely supported by patients and staff.

PASTORAL WORK

I have visited the wards and other departments of the hospital weekly, giving close attention to those who are sick, or confined to bed by infirmity. Similar service has also been rendered to the sick members of the staff. For various reasons many patients are not able to attend chapel services, which increases the importance of regular pastoral visitation, and provides many opportunities both for friendship and spiritual consolation. The influx of voluntary patients during the year has greatly enlarged our responsibility for service at a time when it is welcomed. The attendance of voluntary patients at the services has been a feature of the year.

I have been able to continue the monthly distribution of magazines through the kindess of my former Chester congregation and from other sources.

WELFARE AND LEISURE

During the year I attended, whenever possible, the concerts and dramatic performances held on Saturday evenings. For these we were mainly indebted to friends from Birkenhead, Wallasey and the Wirral, whose visits were greatly appreciated. In addition I have supported occasional football matches, and in particular the Sports Day in which both patients and staff participated. The institution of charabanc rides for the patients in the sumumer, and inter-hospital football and cricket matches provided brief but valuable changes of environment and interest for those privileged to share them. In all these ways the welfare of the hospital community was admirably catered for.

EPITOME

From the foregoing it will be obvious that my work has followed a familiar pattern with no apparently outstanding features. This is part of the nature and discipline of a chaplain's vocation. The important things cannot always be chronicled, or featured in a striking way. Nevertheless, after an experience of twenty years of this service I am convinced that it is of the greatest importance to the redemptive function of the hospital.

Mr. Chairman, Ladies and Gentlemen,
I have the honour to remain,
Your obedient Servant.

ERIC J. LAWSON.

Free Church Chaplain.

Manager and American Supplied to the supplied of the supplied

UPTON MENTAL HOSPITAL, CHESTER.

Table A

GENERAL TABLE, showing the movement of the Hospital Population during the following Years, together with the Recovery and Death Bates.

YEAR.			ADM	ISSION	18.				Total		DISCHARGED OR TRANSPERRED.														1				RECOVERIES.										
Prom Opening of Hospital to 31st Dec.	-			irect.		Total.	-	Tr	Under eatme	nt.		сотеге	d.	Reliev		Not Impro	ved.	No Insa	ane.		Died		H	mainin tegiste Decer	ers	Dai	Average ly Numb on egisters.	3	Total	entage of Recover n the	ies	Perce of T Recov	otal	yield Ad	led by	veries y Direct ons on	of on	Death Avera	18 ge
1907	MF	T	м	PT	M 5587	5197	T 10784	М	7	T	M 1947	9 2242	4189	M F 419 503		M P		M 1	F T	M 2359	1654								Total Numbers of Admissions.			n the Admis	Direct		he Di dmiss		on l	y Num Registe	ers.
	м у	T	м	FT	м	F	T	М	y	T	м	¥	T	MP	T	MIP	T	34 3	FT	M	y	т	М	P	T	М	7	T	м	7	T	M	P	т_ м	1	FT	м	7	7
1908 1909 1910 1911 1911 1912 1913 1916 1916 1917 1918 1919 1929 1929 1929 1923 1924 1928 1928 1928 1928 1928 1929 1929 1929	80 11 101 122 96 11 101 122 123 18 123 18 120 123 18 120 123 18 120 123 18 120 123 18 132 127 14 11 100 12 12 14 11 100 12 14 11 12 14 12 14 12 14 14 11 156 16 16 12 14 14 11 156 16 16 12 14 14 11 12 14 14 11 156 16 16 16 16 16 16 16 16 16 16 16 16 16	7 228 3 206 174 4 314 300 1 326 3 326 6 326 3 326 6 326 3 326 6 326 3 32	5 10 6 221 2 221 2 10 7 8 4 4 5 3 3 5 5 7 7 10 12 9 2 2 7 6 6 6 5 8 3 3 8 7 3 3 3 3 4 4 4 2 3 3 6 3 4	6 11 6 11 10	9 94 94 98 98 94 98 98	127 117 117 119 119 1135 119 119 1135 119 124 1183 1173 119 119 119 119 119 119 119 119 119 11	214 250 291 250 200 200 200 200 200 200 200 200 200	820 805 819 847 850 869 886 921 919 968 949 903 866 831 825 829 815 840 862 878	672 664 665 664 692 681 716 681 716 995 995 998 998 998 998 979 996 977 996 1002 1104 1105 1112 112 1	1261 1297 1303 1341 1803 1708 1804 1708 1800 1708 1801 1796 1801 1796 1801 1748 1751 1748 1751 1851 1801 1893 1894 1895 1907 2010 2090 2199 2198 2199 2073 2198 1914 1914 1901 1942 1944 1901 1942 1944 1901 1945 1966 1969 2196	34 35 32 33 34 34 35 36 36 36 36 36 36 36 36 36 36 36 36 36	50 53 35 54 9 9 9 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5	78 87 76 65 65 78 49 44 47 66 88 78 80 100 210 96 86 81 119 100 100 110 100 110 100 110 100 110 100 110 100 110 100 110 100 110 100 110 100 110 100 110 100 11	31 33 33 34 44 43 45 45 45 45 45 45 45 45 45 45 45 45 45	227 124 271 164 271 164 271 164 271 164 271 165 165 165 165 165 165 165 165 165 16	5 4 3 4 5 4 5 6 4 5 6 6 117 2 20 21 117 2 20 117 2 117 2 117 2 117 117 117 117 117 1	\$\frac{1}{2}\$ \$\	1 .	1 1 1		44 45 46 46 46 47 47 49 40 41 41 41 41 41 41 41 44 44 44	85 1114 90 84 120 122 121 201 120 112 110 112 110 112 121 121	800 780 742 708 728 709 695 721 667 680 725	820 830 833 722 792 825 823 833 862 873 862 942 948 949 972 988 941 1016 1055 1016 1016 944 951 1017 1017 1017 1017	1019 1019 1059 1058 1093 1093 1098 1098 1098 1098 1098 1098 1098 1098	705	541 1 558 1 1 558 1 558 1 1 558 1 1 558 1 1 1 558 1 1 1 558 1 1 1 558 1 1 1 558 1 1 1 558 1 1 1 558 1 1 1 558 1 1 1 558 1 1 1 558 1 1 1 1	019 019 019 019 019 019 019 019 019 019	3219 2340 2340 2340 2340 2340 2340 2340 2340	24.5 22.34 3.32.5 111.1	66 3 3 3 3 3 4 1 1 1 3 3 3 4 3 3 4 3 3 4 3 3 3 3	50 33 4-3 44 30 33 81 36 84 42 98 43 10 41	33 38 36 36 37 36 36 36 36 36 36 36 36 36 36 36 36 36	33 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	388 388 369 369 369 369 369 369 369 369 369 369	5 364 363 364 364 365 364 365 36	822 127 132 145 167 128 156 221 177 128 156 221 177 177 90 141 177 90 90 93 88 80 60 60 60 60 60 60 60 60 60 60 60 60 60	97 83 68 91 92 127 100 1117 137 138 48 89 91 138 48 77 73 47 62 68 54 47 47 47 47 47 47 47 47 47 47 47 47 47	86 11.0 11.1 11.1 11.1 11.1 11.1 11.1 11.





