

ADVICE ON POTATO
IRRIGATION GIVEN

(Gordon G. Brown)

There is considerable difference of opinion among potato growers as regards the time when irrigation should start and stop for this crop. The number and character of irrigations is also another point on which all do not agree. Obviously, the answer to many of these questions will depend upon the use for which the tubers are being grown; whether for seed or for the table. Again, the variety and character of soil on which grown is an important factor. Obviously, a lighter soil will require earlier and perhaps later irrigations than will a heavier one. Considerable difference would also be found in the number of applications on these two distinct types of soil.

Owing to the fact that Idaho is a state where a great many tests have been conducted by their experiment station bearing upon the subject of irrigation, the writer wishes to point out the results obtained there. The following is an outline of the experiment conducted:

Plat 1—First irrigation when the plants are four or five inches high. From then as often as is necessary to keep sufficient soil moisture to furnish good growing condition until the tubers are the size of an egg. Then no more irrigation.

Plat 2—First irrigation when plants are four or five inches high and as

often as is necessary during the remainder of the season.

Plat 3—First irrigation when the tubers begin to form and as often as is necessary during the remainder of the season.

Plat 4—First irrigation when the tubers are the size of an egg and as often as is necessary during the remainder of the season.

Plat 5—No irrigation. This plan was carefully followed for two seasons. In all cases the last irrigations were applied about the middle of August. By that time tubers had attained their growth and the soil was allowed to dry to allow the tubers to ripen.

Summarizing: Plat 1 had two applications of water with an irrigation season of 23 days; plat 2 and 3, four irrigations with 17 days as the length of the irrigating season. These plots were cultivated after irrigation from the beginning of the season until further cultivation was made impracticable because of the large vines and extensive root systems. In all cases the plots were given the same cultivation.

Yields were as follows:

Plat 1: Yield of marketable potatoes, lbs., 9,281; yield culls, lbs., 3,858; total per cent marketable yields, 70.5.

Plat 2: Yield of marketable potatoes, lbs., 14,454; yield culls, lbs., 3,618; total per cent marketable yields, 76.5.

Plat 3: Yield of marketable potatoes, lbs., 14,847; yield culls, lbs., 2,842; total per cent yield of marketable potatoes, 80.7.

Plat 4: Yield of marketable potatoes, lbs., 12,912; yield culls, lbs., 4,165; total per cent marketable potatoes, 75.6.

Plat 5: Yield of marketable potatoes, 5,649 lbs.; yield culls, 3,465 lbs.; total per cent yield marketable, 61.2.

One of the first things that will be noted in a study of the above table is that when the irrigation of a crop of potatoes has been started, it should be continued throughout the rest of the season. Plat three, which received its first irrigation at the formation of tubers, produced a greater yield and a higher percentage of marketable tubers with less water than did either Plats 2 or 4.

It is believed that the difference in yield and uniformity between Plats 1 and 4 is due far more to the time of application than to the amount applied. This work so far indicates that potatoes should be irrigated when the tubers begin to form and from then on should be given frequent light applications until time to allow them to dry and ripen.

Potatoes should never be flooded. Neither should they be irrigated with furrows that are so shallow that the water is allowed to come in direct contact with the tubers. If the soil around the tubers is once saturated with water it will become hard and compact, checking uniform growth.

Besides securing an irregular potato there is also greater danger from disease.

Searches of records and reliable abstracts made by Oregon Abstract Company, A. W. Onthank, Manager, 305 Oak Street. Phone 1521. jy20-4f

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Semi-Annual Statement of Hood River County
As Shown from Records in Clerk's Office

Showing the amounts, under each budget item, as adopted by the County Court in the budget for the year 1920; the amount of claims allowed by the Court for which warrants have been drawn, for the period from January 1st to June 30th, 1920; and the balance in each budget item; also all outstanding and unpaid warrants at the close of said date. The amounts in the several funds of the County are as appears by the report of the County Treasurer, which follows and is made a part of this report.

GENERAL FUND.

	1920 Budget	Spent	Balance
County Court:			
Salary of Judge	\$800.00	\$399.96	\$400.04
Commissioners	700.00	289.60	410.40
Expenses	50.00	1.98	48.02
Experting Books	350.00	261.25	88.75
Circuit Court	1400.00		
Jurors		287.20	
Witnesses		8.00	
Grand Jury		26.60	
Witnesses			
Bailiff		45.75	
Reporter		22.00	1017.25
Justice's Court:	350.00		
Justice's Fees		21.35	
Constable		1.50	327.15
Clerk's Office:			
Salary of Clerk	1600.00	799.98	800.02
Deputy	1080.00	645.00	435.00
Office Expenses	250.00	358.86	OD108.86
Books and Records	450.00	79.76	370.24
Sheriff's Office:			
Salary of Sheriff	1600.00	799.98	800.02
Deputy	1500.00	750.00	750.00
Office Expenses	400.00	528.77	OD128.77
Special Deputies	200.00	598.36	OD398.36
Treasurer's Office:			
Salary of Treasurer ..	500.00	249.96	250.04
Office Expenses	50.00	4.20	45.80
Assessor's Office:			
Salary of Assessor	1300.00	649.98	650.02
Deputies	900.00	260.00	640.00
Supplies	250.00	106.51	143.49
Superintendent's Office:			
Salary	600.00	313.16	286.84
Traveling	200.00	70.34	129.66
Supplies	150.00	75.24	74.76
Institute	150.00		150.00
Examinations	50.00	59.25	OD9.25
Fruit Inspector	1200.00	709.62	490.38
Surveyor and help	2000.00	723.05	1276.95
Care of Poor	3500.00		
Groceries		207.83	
Hospital Patients		261.50	
Poor Farm		261.87	
Allowances		627.00	
Nursing		28.00	
Burying Poor		40.00	
Physicians	69.72		
Miscellaneous		55.08	1939.00
Widows' Pensions	2500.00	1371.33	1128.67
Coroner's Office	100.00	74.10	25.90
Health Officer	600.00	454.00	146.00
Court House:			
Light	35.00	23.30	11.70
Telephone	100.00	74.35	25.65
Water	29.00	10.75	18.25
Janitor	480.00	240.00	240.00
Wood	150.00	16.00	134.00
Repairs	100.00	123.15	OD23.15
Insurance		OD38.00	
Jail	250.00	84.18	165.82
Elections	2000.00		
Hall Rent for Primary ..		70.00	
Judges and Clerks		527.73	
Supplies		67.96	
Deputy Sheriffs		18.00	
Ballots		232.00	1073.26
Scalp Bounty	120.00	77.50	42.50
Printing and Advertising ..	600.00	281.90	318.10
District Sealer	180.00	94.39	85.61
Boys' and Girls' Aid	180.00	90.00	90.00
County Library	2200.00	1100.00	1100.00
Parkdale Library	60.00	60.00	
Indigent Soldiers	100.00		100.00
Insane	50.00		50.00
Experiment Station	4000.00	2000.00	2000.00
School Library	250.00		250.00
Official Bonds	400.00	283.00	117.00
State Tax	43345.60	21672.80	21672.80
School Fair	300.00		300.00
Visiting Nurse	1500.00	750.00	750.00
Miscellaneous	1000.00	931.15	68.85
Bridges and Culverts	17000.00	7147.44	9852.56

Total \$99209.60 \$48,859.29 \$50350.31

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GENERAL ROAD FUND.

	BUDGET	SPENT	BALANCE
Road District No. 1	\$10,129.66	\$6224.01	\$2905.65
" No. 2	3828.20	3766.15	62.05
" No. 3	4334.30	3411.36	922.94
" No. 5	7289.46	5657.47	1631.99
" No. 6	2967.32	3347.77	(od) 380.45
" No. 7	1497.56	2811.97	(od) 1314.41
" No. 9	3109.02	1247.64	1861.38
30% of R'd Fund to be spent by Court wherever they may see fit	14209.51	1500.00	
For Lost Lake Road		2000.00	
To haul rock crushed with \$1600 donated at Parkdale Items that could not be charged to any district		1170.62	9538.89
Donated by Parkdale to crush rock	1600.00	261.80	1238.20
For hauling above rock	2000.00	577.50	1422.50
Lost Lake Road: Fwd. from 1919	\$ 598.39		
1920 Budget	1500.00		
Donated 1920	430.00	2523.39	616.04
Outstanding and unpaid General Fund Warrants			\$ 294.24
Outstanding and unpaid Road Fund Warrants			770.90
Total			1117.04

E. E. SHOEMAKER, Clerk.

By KENT SHOEMAKER, Deputy.

Dated as of July 1st, 1920.

COUNTY TREASURER'S SEMI-ANNUAL REPORT.

Ending June 30, 1920.

Balance on hand December 31, 1919	\$33,013.47
Taxes Collected	\$198,671.40
Interest on daily balances	473.03
County Clerk's fees	2119.37
Justice Court fees	180.00
Misc. receipts as per itemized statement in office of County Clerks	10,478.20
	\$244,935.47
DISBURSEMENTS	
Warrants and Vouchers paid	\$202,088.92
Balance June 30, 1920	42,846.55
	\$244,935.47
Balance in several funds June 30, 1920	
City Hood River	\$188.66
County Fair	568.38
County School	226.12
Columbia Highway Bond	\$2566.79
Columbia Highway Interest	
East Fork Irrigation	454.88
Estates	893.42
Fire Patrol	2.10
General Fund	23,050.94
High School No. 2	
Hood River Library	.23
Indemnity	42.20
Van Johnson Trust Fund	71.00
School Library	.39
Road Fund	7,590.82
Surveyor	32.87
High School Tuition	2,879.93
Road District No. 1	467.63
Road District No. 6	170.41
Road District No. 10	17.49
School District No. 1	.72
School District No. 2	16.57
School District No. 3	
School District No. 4	4,648.33
School District No. 5	2,416.75
School District No. 6	44.21
School District No. 7	25.95
School District No. 9	467.78
School District No. 10	54.21
School District No. 11	
School District No. 12	1.57
School District No. 13	5.79
School District No. 14	7.41
School District No. 15	820.51
School District No. 16	246.85
Hood River Irrigation	
Cash on Hand	\$42,846.55
	\$45,413.73
	\$45,413.73

JESSIE M. BISHOP, County Treasurer.

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