

DB5309

临 沧 市 地 方 标 准

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临沧市暴雨强度公式

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临沧市市场监督管理局 发 布

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前 言

本文件按照 GB/T 1.1—2020《标准化工作导则 第1部分：标准化文件的结构和起草规则》的规定起草。

请注意本文件的某些内容可能涉及专利。本文件的发布机构不承担识别专利的责任。

本文件由临沧市气象科技服务中心提出。

本文件由云南省临沧市气象局归口。

本文件起草单位：临沧市气象科技服务中心、临翔区气象局、云县气象局、凤庆县气象局、永德县气象局、镇康县气象局、耿马县气象局、沧源县气象局、双江县气象局。

本文件主要起草人：杨晓慧、李振杰、杨宏庆、刘志雄、杨和艳、唐海云、白斌、夏龙松、尤文龙、李榕、罗会南、何蕊、夏璐。

临沧市暴雨强度公式

1 范围

本文件规定了临沧市（临翔区、云县、凤庆县、永德县、镇康县、耿马县、沧源县、双江县）城市暴雨强度公式及相关参数的取值。

本文件适用于临沧市各县（区）主城区范围的室外排水系统规划、设计、建设评估，市内其他区域可参考使用。

2 规范性引用文件

下列文件中的内容通过文中的规范性引用而构成本文件必不可少的条款。其中，注日期的引用文件，仅该日期对应的版本适用于本文件；不注日期的引用文件，其最新版本（包括所有的修改单）适用于本文件。

GB 50014-2021 室外排水设计标准

QX/T 489-2019 降雨过程等级

3 术语和定义

下列术语和定义适用于本文件。

3.1

降雨量

某一时段从天空降落到地面的未蒸发、渗透、流失的雨在水平面上累积的深度。

注：以毫米（mm）为单位。

[来源：QX/T 489-2019，2.2]

3.2

降雨历时

降雨过程中的任意连续时段。

注：以分钟（min）为单位。

[来源：GB 50014-2021，2.1.9]

3.3

暴雨强度

单位时间内单位面积上的降雨体积。

注：以升/（秒·公顷）（L/(s·hm²））为单位。

3.4

暴雨重现期

经一定时间的雨量观测资料统计分析，大于或等于某暴雨强度的降雨出现一次的平均间隔时间。

注：以年（a）为单位。

3.5

暴雨强度公式

反映短历时暴雨过程中暴雨强度（q）-降雨历时（t）-重现期（P）三者间函数关系的数学表达式，适用于城市小区域降雨规律的定量描述。其表达式为：

$$q = \frac{167A_1(1+C\lg P)}{(t+b)^n} \dots\dots\dots(1)$$

式中：

q---设计暴雨强度，单位为升/（秒·公顷）[L/(s·hm²)]；

P---设计暴雨重现期，单位为年（a）；

t---降雨历时，单位为分钟（min）；

A₁---雨力参数，经验参数；

C---雨力变动参数，经验参数；

b---降雨历时修正参数，经验参数；

n---暴雨衰减指数，经验参数。

[来源：GB 50014-2021，4.1.9]

4 临沧市暴雨强度公式

4.1 编制方法

按照室外排水设计标准（GB 50014-2021）中附录 B 暴雨强度公式的编制方法进行临沧市 8 县（区）主城区暴雨强度公式编制。

4.2 8 县（区）城市暴雨强度公式

4.2.1 临翔区城市暴雨强度公式

$$q = \frac{6076.464 \times (1 + 0.633 \lg P)}{(t + 21.339)^{1.020}} \dots\dots\dots(2)$$

4.2.2 云县城市暴雨强度公式

$$q = \frac{2503.843 \times (1 + 0.724 \lg P)}{(t + 16.419)^{0.838}} \dots\dots\dots(3)$$

4.2.3 凤庆县城市暴雨强度公式

$$q = \frac{1734.518 \times (1 + 0.581 \lg P)}{(t + 15.236)^{0.727}} \dots\dots\dots(4)$$

4.2.4 永德县城市暴雨强度公式

$$q = \frac{4374.843 \times (1 + 0.75 \lg P)}{(t + 19.076)^{0.944}} \dots\dots\dots(5)$$

4.2.5 镇康县城市暴雨强度公式

$$q = \frac{15105.930 \times (1 + 0.438 \lg P)}{(t + 32.554)^{1.087}} \dots\dots\dots(6)$$

4.2.6 耿马县城市暴雨强度公式

$$q = \frac{2634.044 \times (1 + 0.672 \lg P)}{(t + 12.707)^{0.819}} \dots\dots\dots(7)$$

4.2.7 沧源县城市暴雨强度公式

$$q = \frac{1389.764 \times (1 + 0.88 \lg P)}{(t + 8.393)^{0.7}} \dots\dots\dots(8)$$

4.2.8 双江县城市暴雨强度公式

$$q = \frac{3445.344 \times (1 + 0.997 \lg P)}{(t + 18.024)^{0.937}} \dots\dots\dots(9)$$

4.3 暴雨强度公式适用范围

适用范围: $t \leq 180\text{min}$, $2a \leq P \leq 100a$

4.4 暴雨强度常用查算图表

4.4.1 暴雨强度常用查算图

常用查算图包括暴雨强度曲线图和不同历时降雨曲线图。临沧市 8 县(区)城市暴雨强度曲线图和不同历时降雨曲线图见附录 A。

4.4.2 暴雨强度常用查算表

暴雨强度查算表是重现期为 2a、3a、5a、10a、20a、30a、50a、100a 的暴雨强度数值列表,采用单一重现期暴雨强度公式计算得到,设计暴雨强度可按选定设计重现期直接查用表列数值。临沧市 8 县(区)城市固定重现期(2a、3a、5a、10a、20a、30a、50a、100a)暴雨强度查算表见附录 B。

附 录 A
(资料性)
常用查算图

临沧市 8 县（区）城市暴雨强度曲线图和不同历时降雨曲线图见图 A.1 ~ 图 A.16。
临翔区暴雨强度曲线见图 A.1。

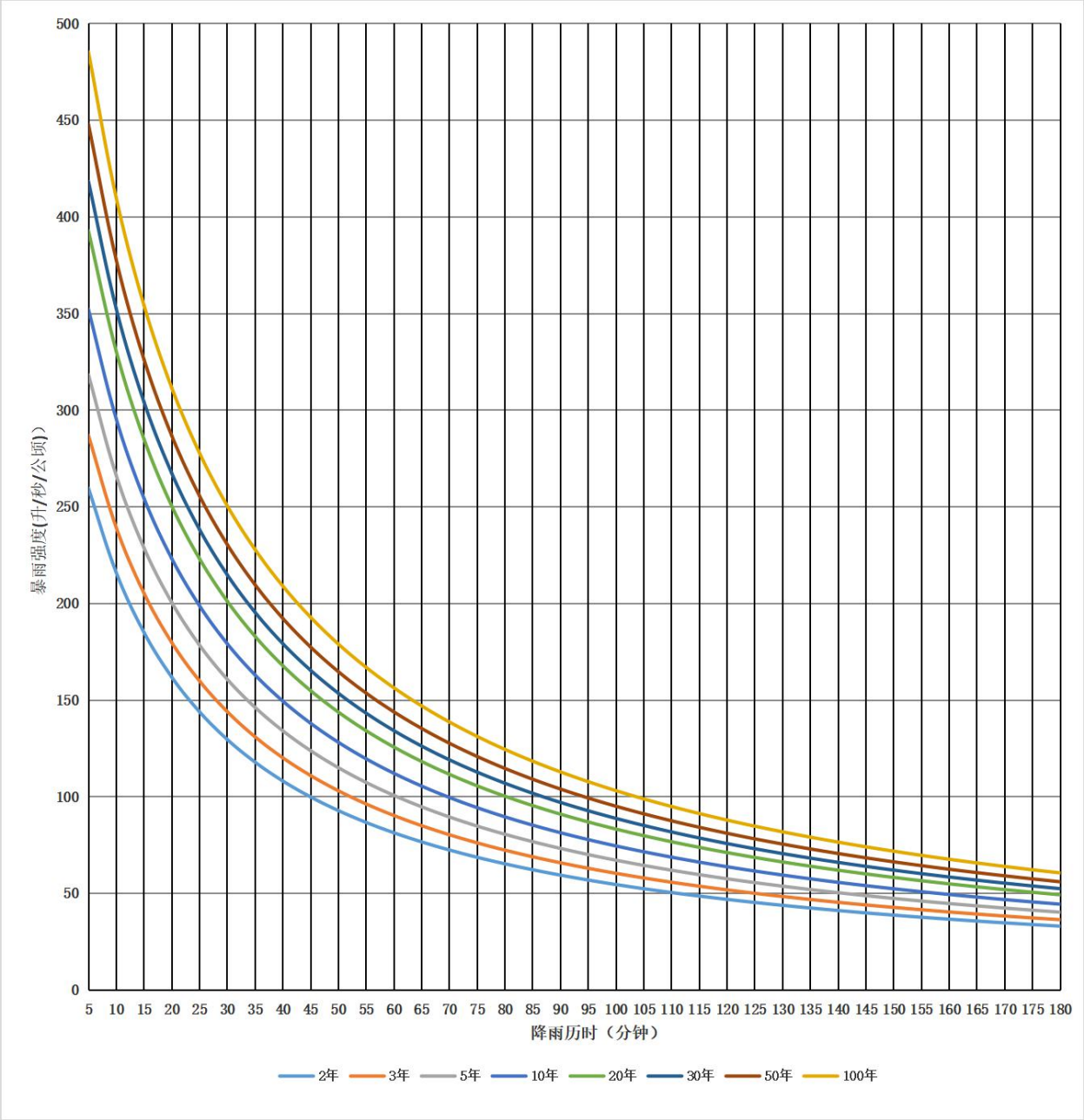


图 A.1 临翔区暴雨强度曲线

临翔区不同历时降雨曲线图见 A.2。

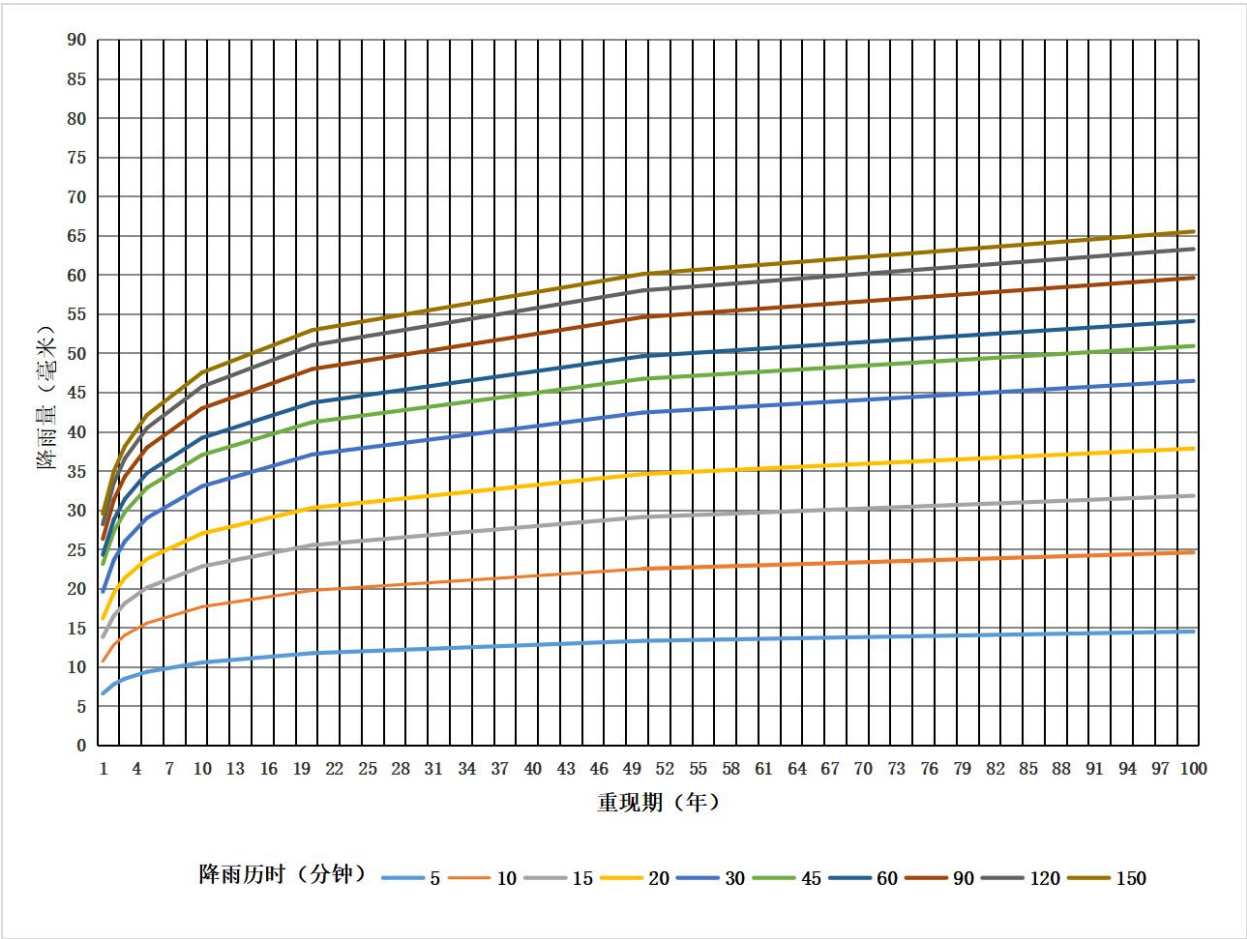


图 A. 2 临翔区不同历时降雨曲线

云县暴雨强度曲线见图 A.3。

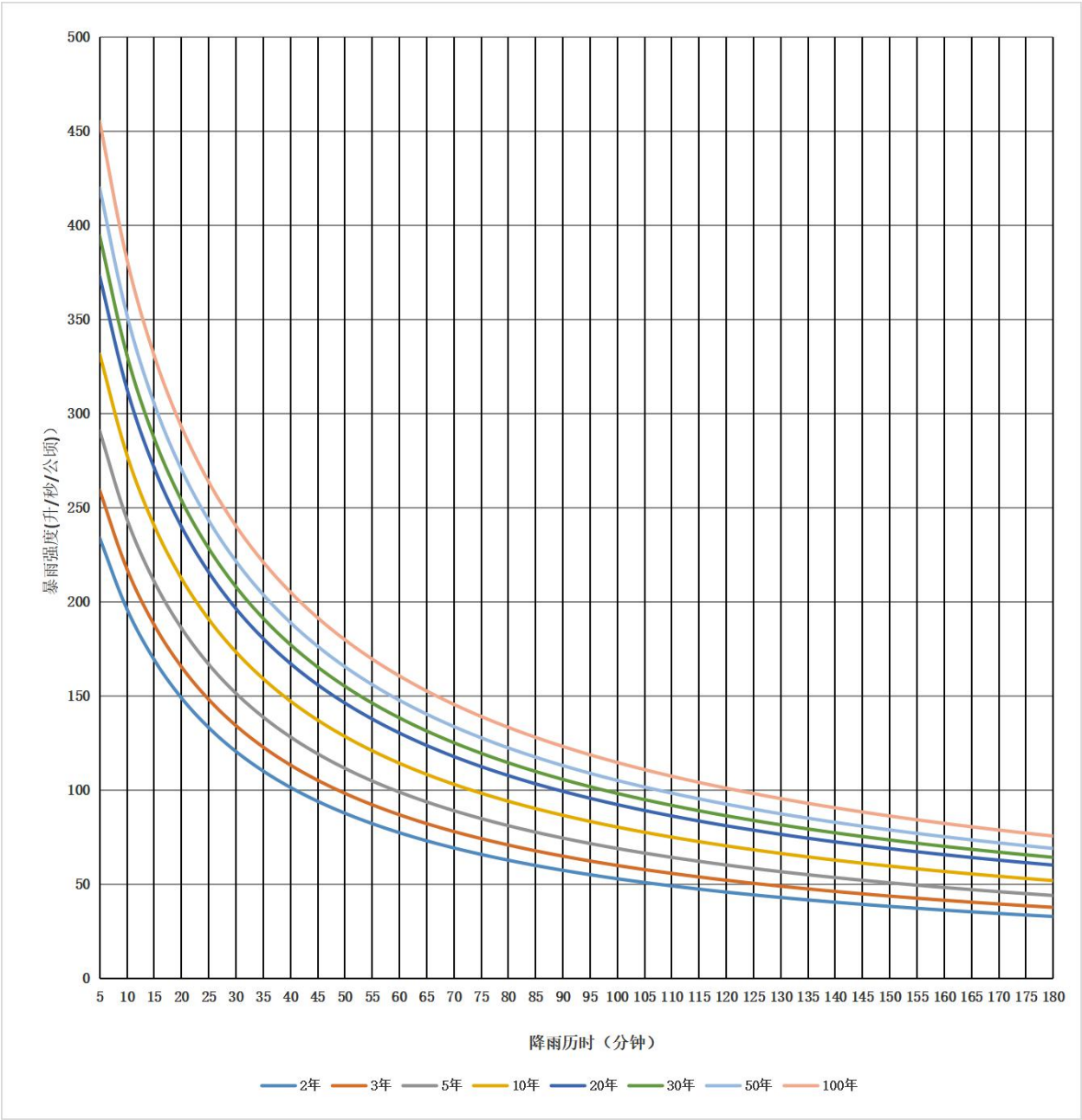


图 A.3 云县暴雨强度曲线

云县不同历时降雨曲线图见 A.4。

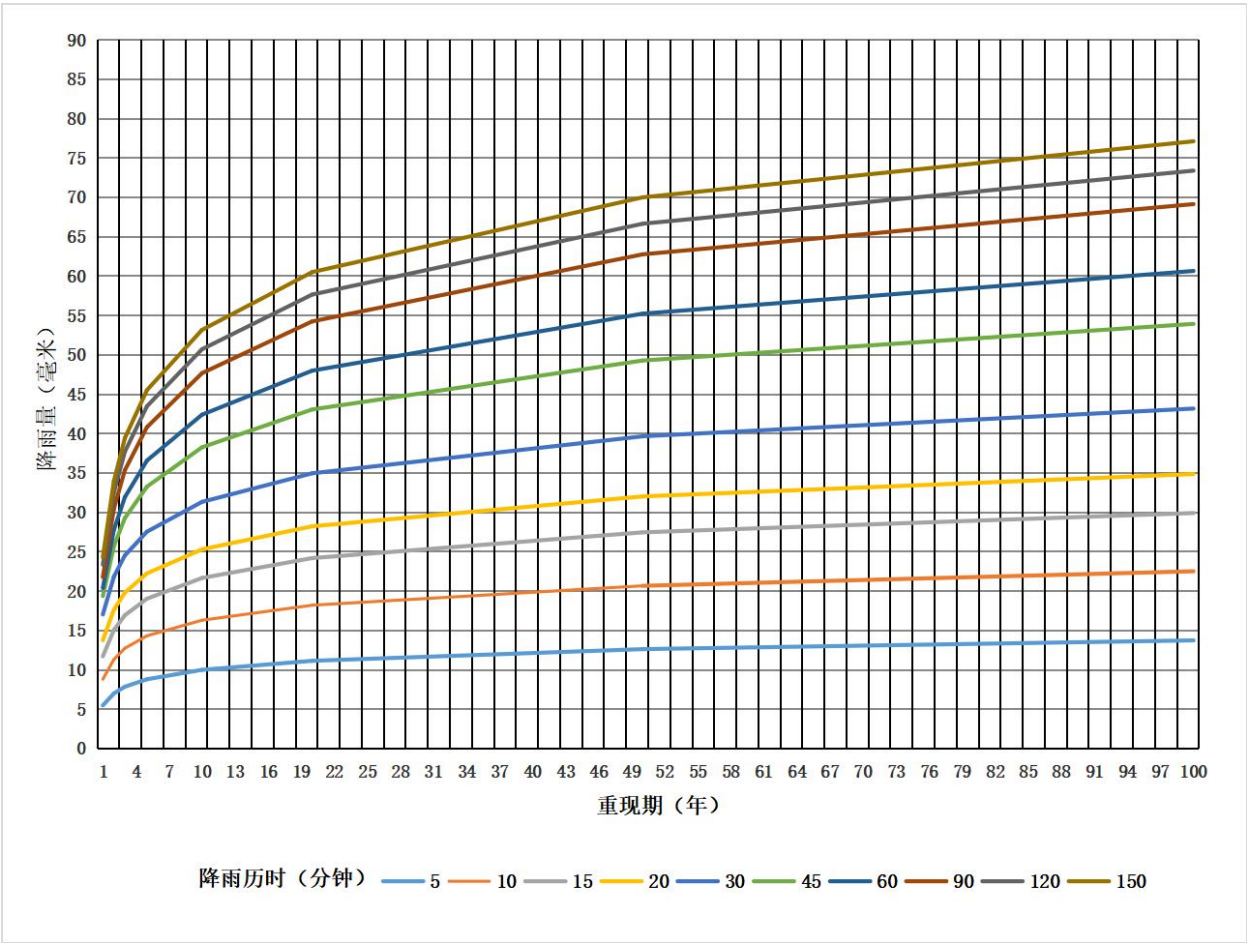


图 A. 4 云县不同历时降雨曲线

凤庆县暴雨强度曲线见图 A.5。

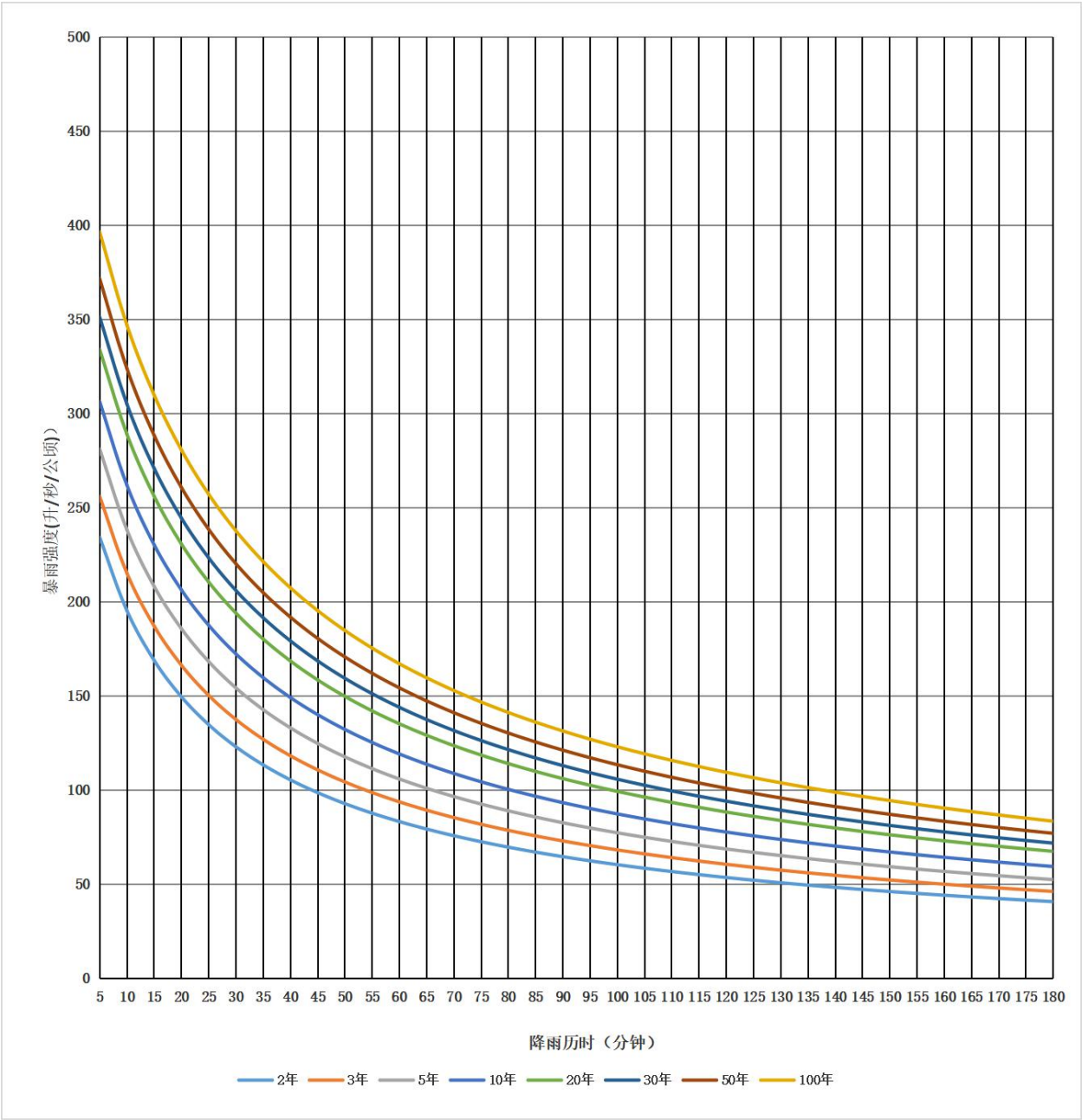


图 A.5 凤庆县暴雨强度曲线

凤庆县不同历时降雨曲线图见 A.6。

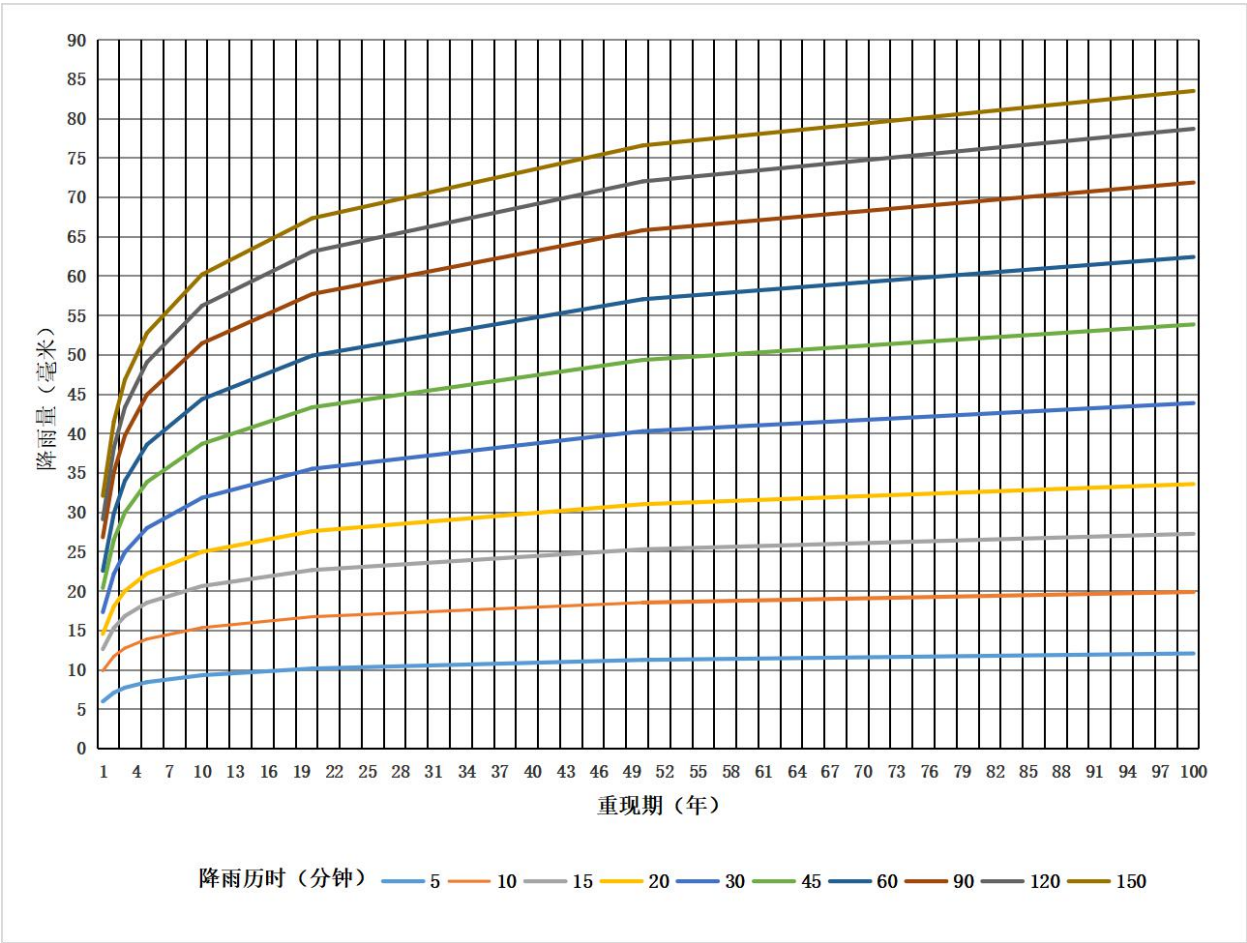


图 A. 6 凤庆县不同历时降雨曲线

永德县暴雨强度曲线见图 A.7。

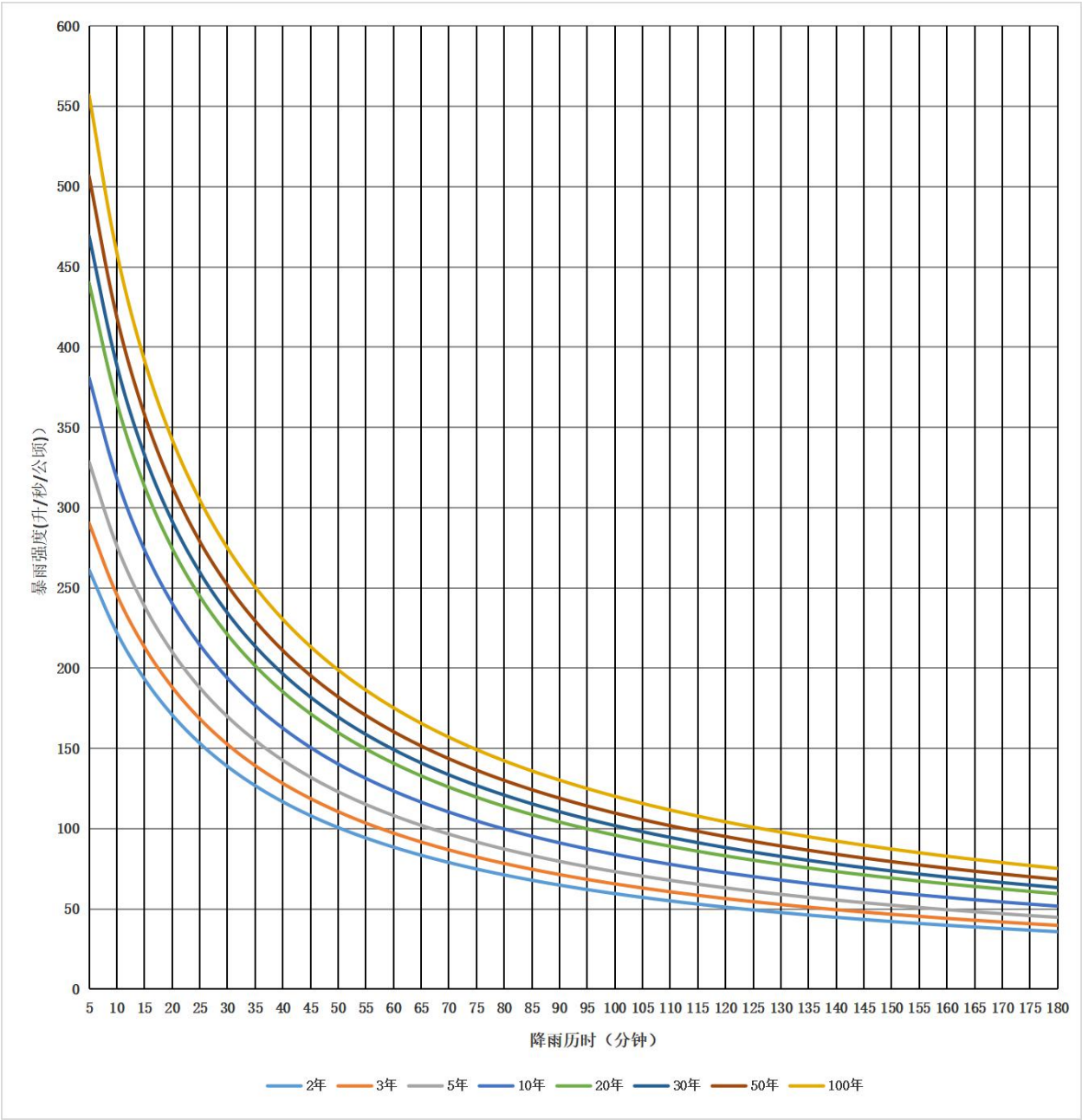


图 A. 7 永德县暴雨强度曲线

永德县不同历时降雨曲线图见 A.8。

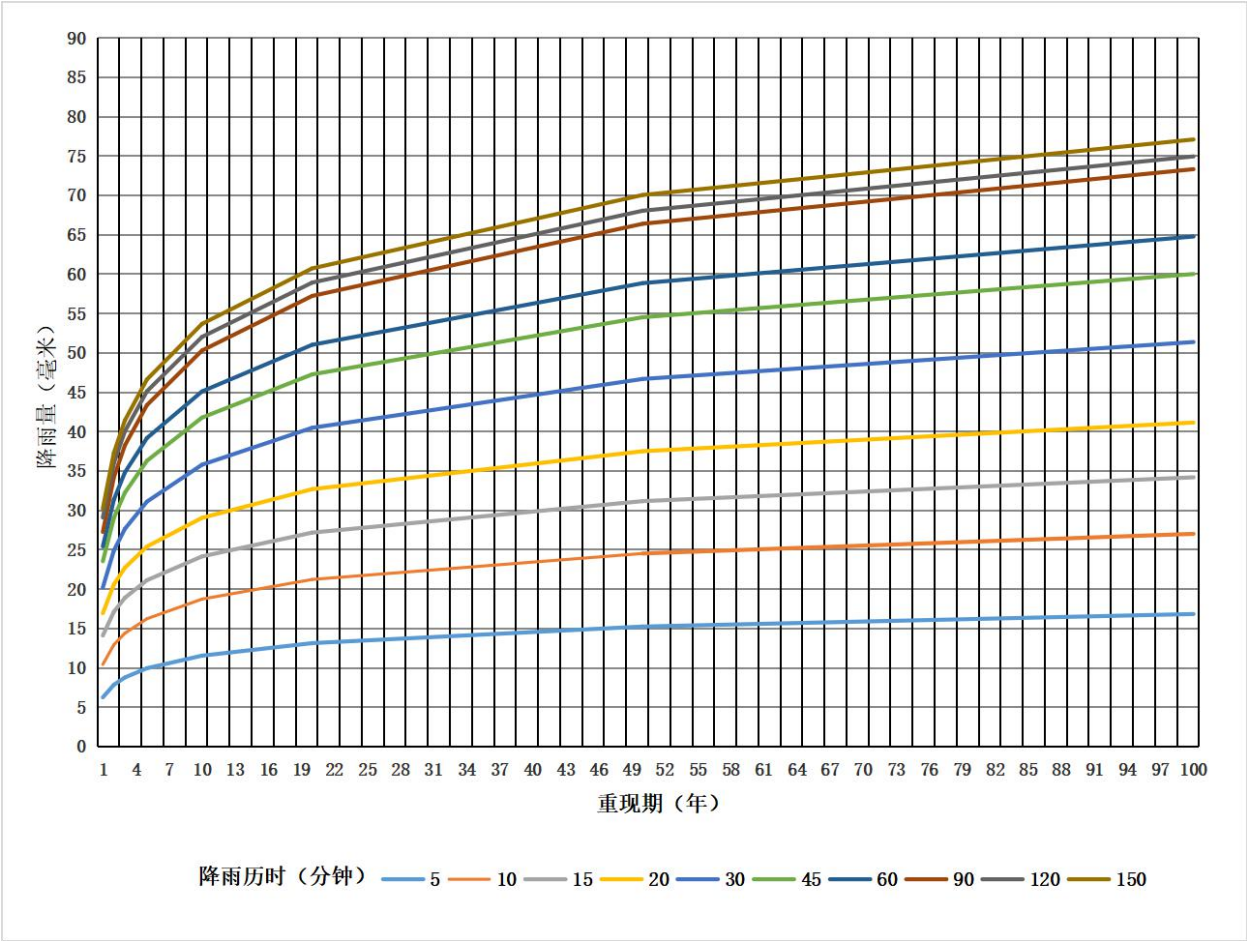


图 A. 8 永德县不同历时降雨曲线

镇康县暴雨强度曲线见图 A.9。

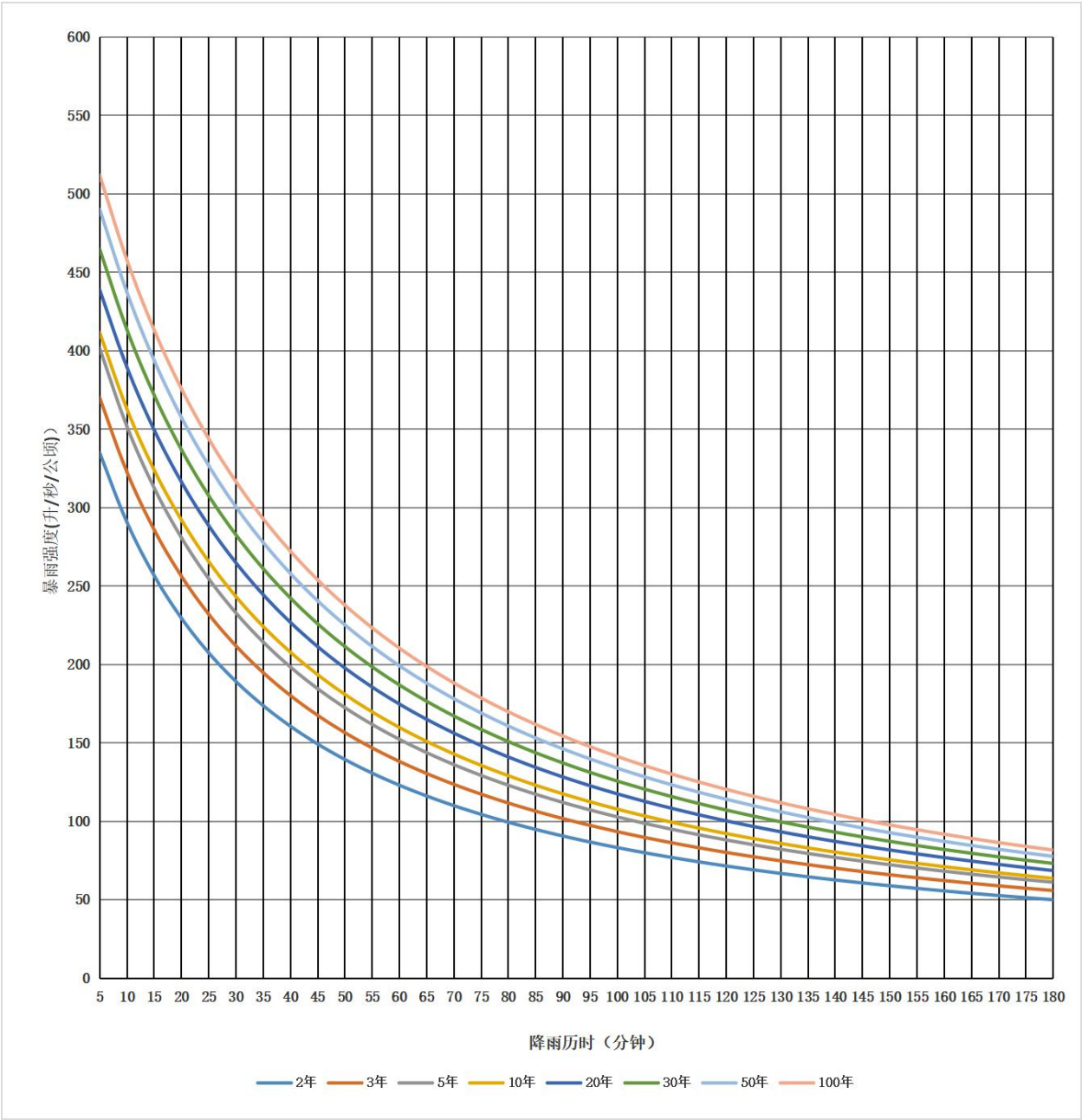


图 A. 9 镇康县暴雨强度曲线

镇康县不同历时降雨曲线图见 A.10。

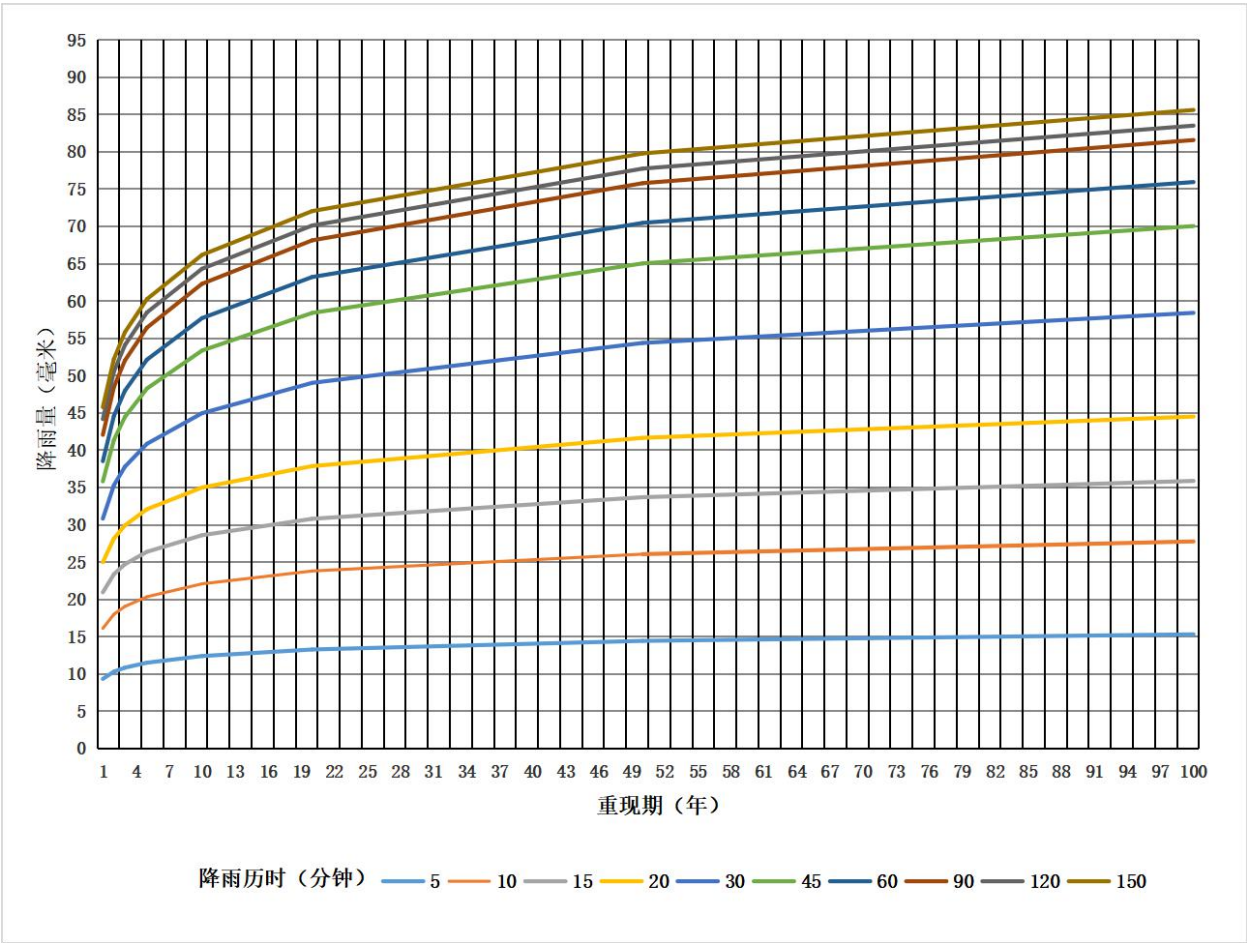


图 A.10 镇康县不同历时降雨曲线

耿马县暴雨强度曲线见图 A.11。

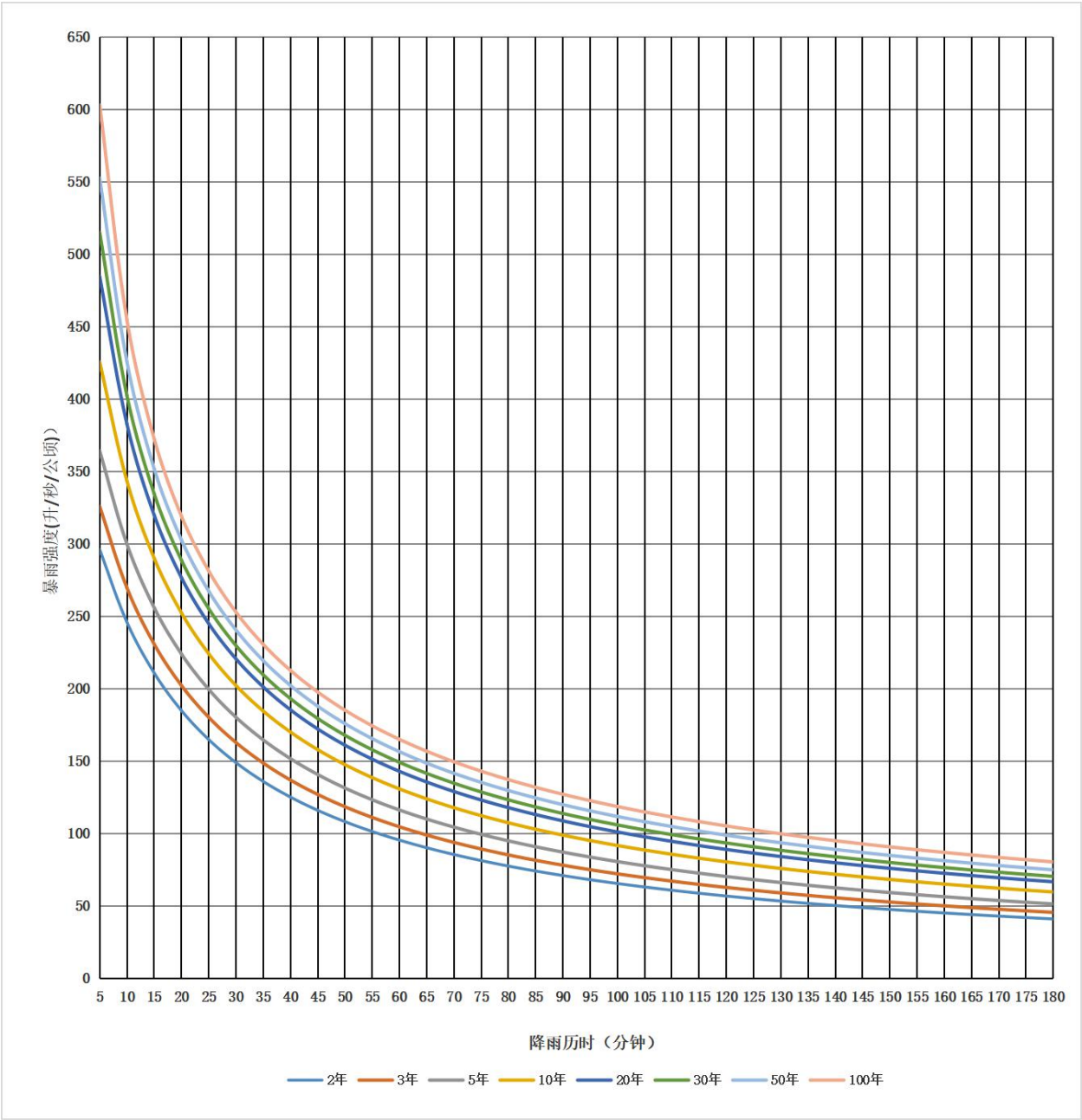


图 A. 11 耿马县暴雨强度曲线

耿马县不同历时降雨曲线图见 A.12。

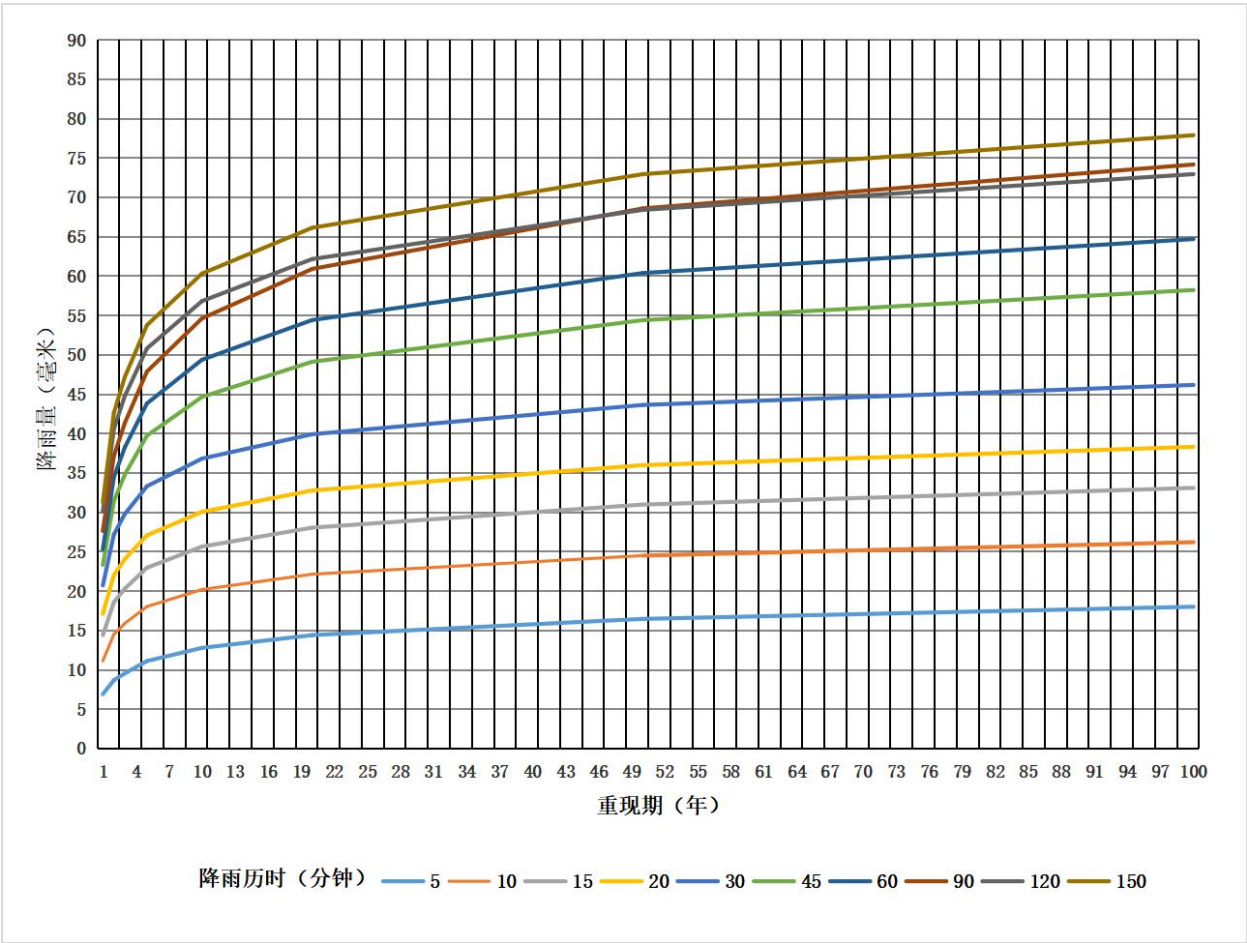


图 A.12 耿马县不同历时降雨曲线

沧源县暴雨强度曲线见图 A.13。

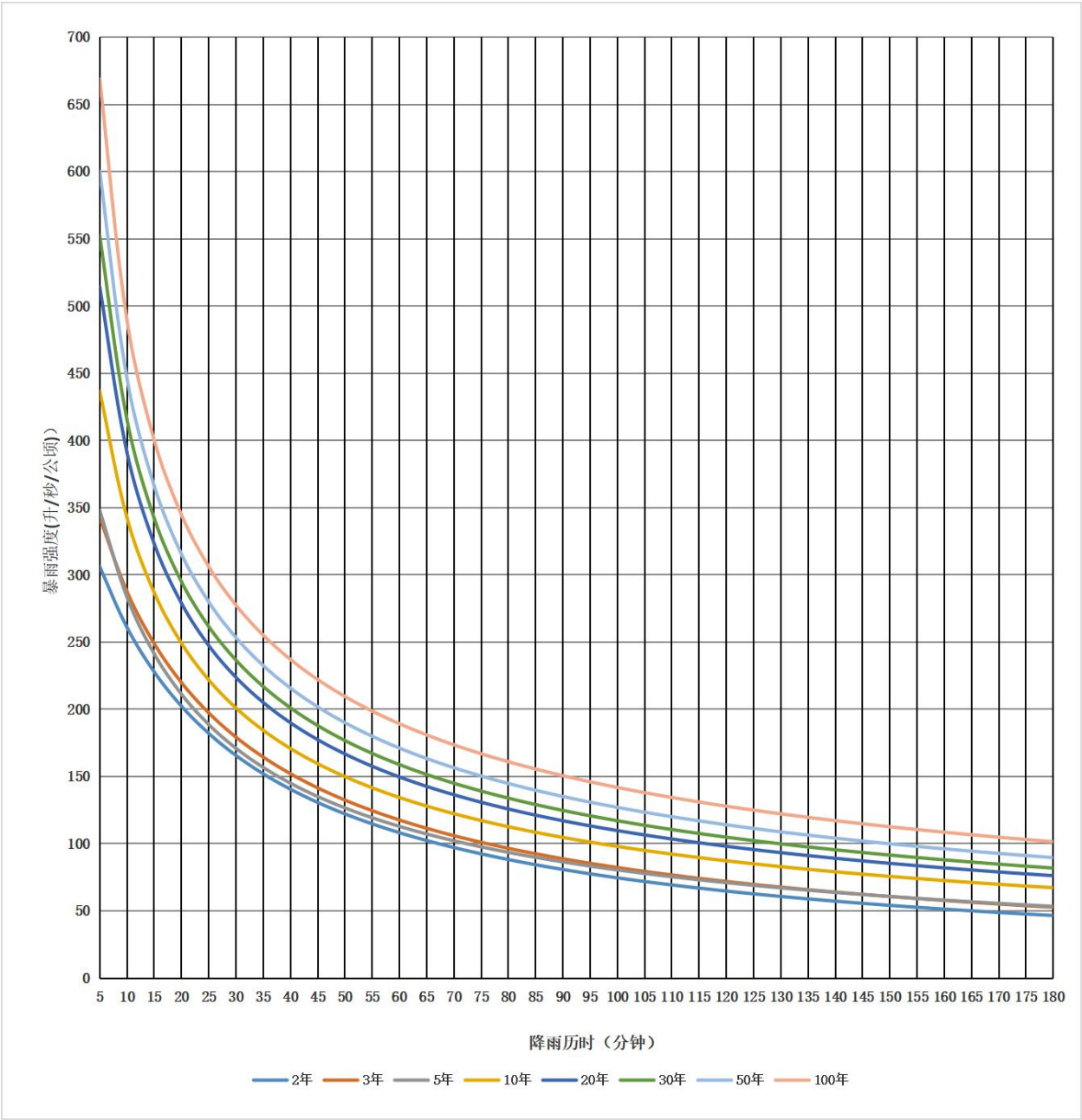


图 A. 13 沧源县暴雨强度曲线

沧源县不同历时降雨曲线图见 A.14。

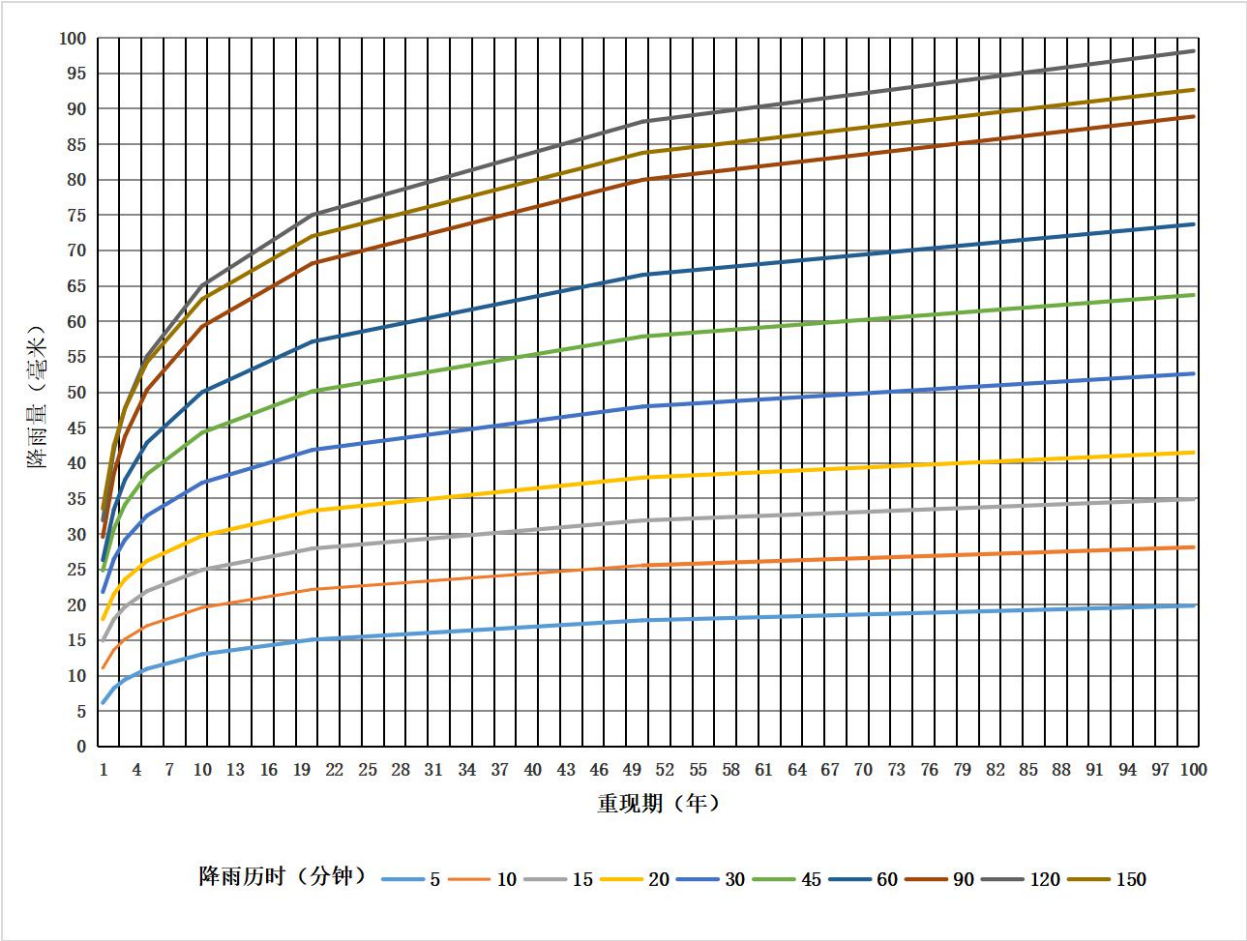


图 A.14 沧源县不同历时降雨曲线

双江县暴雨强度曲线见图 A.15。

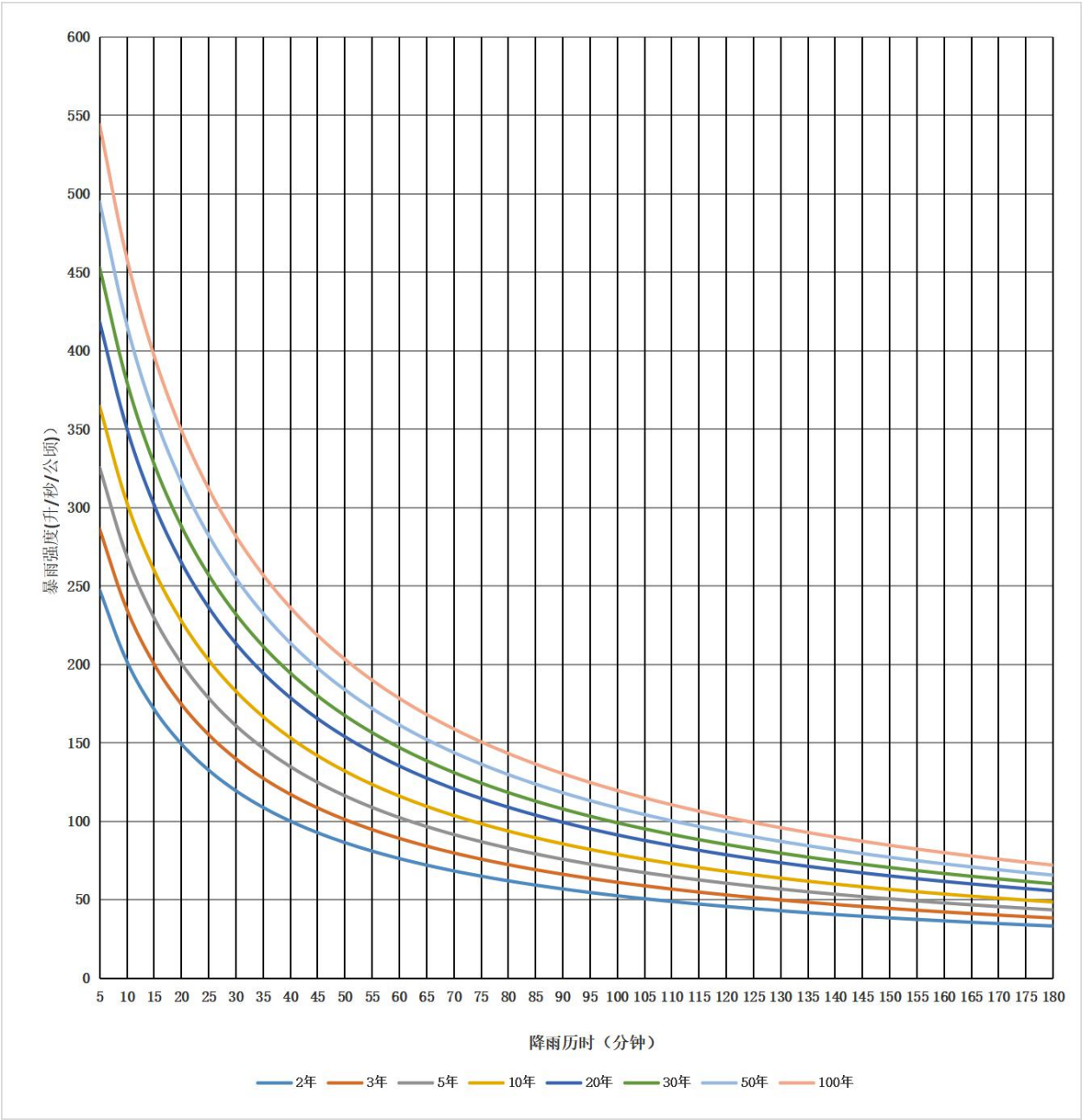


图 A. 15 双江县暴雨强度曲线

双江县不同历时降雨曲线图见 A.16。

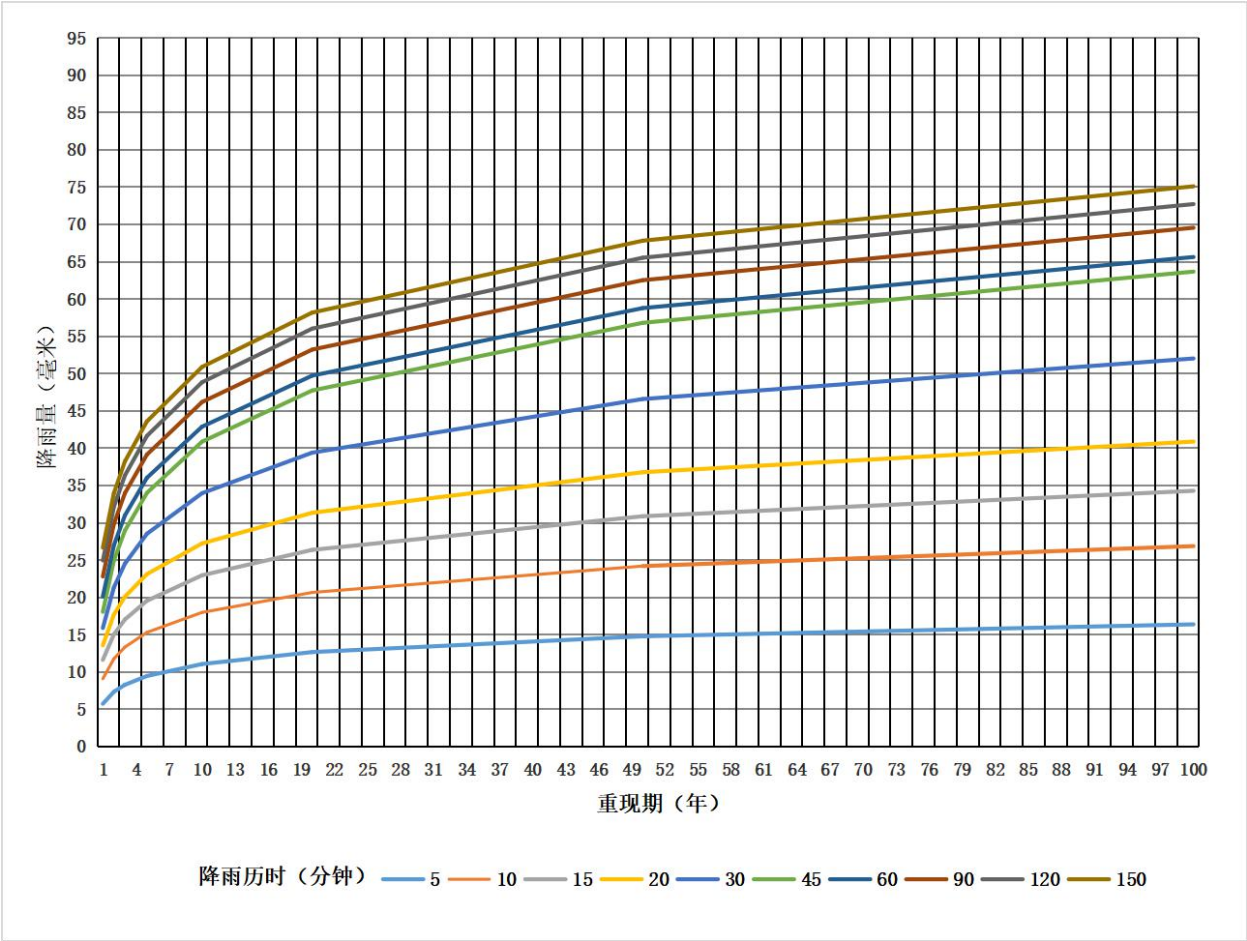


图 A. 16 双江县不同历时降雨曲线

附 录 B

(资料性)

常用查算表

临沧市 8 县（区）城市固定重现期（2a、3a、5a、10a、20a、30a、50a、100a）暴雨强度查算表。

B1 临翔区暴雨强度查用表

表 B1.1 临翔区暴雨强度 P=2a 查用表

临翔区 P=2a t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	309.993	27	137.818	53	89.04	79	65.91	105	52.385	131	43.502	157	37.216
2	295.641	28	134.959	54	87.85	80	65.26	106	51.976	132	43.22	158	37.011
3	282.572	29	132.218	55	86.692	81	64.623	107	51.573	133	42.943	159	36.808
4	270.622	30	129.587	56	85.564	82	63.998	108	51.177	134	42.669	160	36.607
5	259.652	31	127.06	57	84.465	83	63.386	109	50.786	135	42.398	161	36.408
6	249.547	32	124.631	58	83.395	84	62.785	110	50.402	136	42.131	162	36.212
7	240.206	33	122.294	59	82.352	85	62.196	111	50.024	137	41.867	163	36.018
8	231.547	34	120.044	60	81.335	86	61.618	112	49.651	138	41.607	164	35.825
9	223.497	35	117.876	61	80.343	87	61.051	113	49.284	139	41.35	165	35.635
10	215.994	36	115.786	62	79.375	88	60.494	114	48.922	140	41.096	166	35.447
11	208.984	37	113.77	63	78.43	89	59.947	115	48.565	141	40.845	167	35.261
12	202.419	38	111.823	64	77.508	90	59.41	116	48.214	142	40.598	168	35.077
13	196.259	39	109.943	65	76.608	91	58.883	117	47.868	143	40.353	169	34.895
14	190.466	40	108.125	66	75.728	92	58.365	118	47.527	144	40.111	170	34.714
15	185.01	41	106.368	67	74.869	93	57.856	119	47.191	145	39.872	171	34.536
16	179.86	42	104.667	68	74.029	94	57.357	120	46.859	146	39.636	172	34.359
17	174.993	43	103.02	69	73.208	95	56.866	121	46.533	147	39.403	173	34.185
18	170.385	44	101.425	70	72.406	96	56.383	122	46.21	148	39.173	174	34.012
19	166.016	45	99.88	71	71.621	97	55.908	123	45.893	149	38.945	175	33.841
20	161.868	46	98.381	72	70.852	98	55.442	124	45.579	150	38.72	176	33.671
21	157.924	47	96.927	73	70.101	99	54.983	125	45.27	151	38.498	177	33.503
22	154.171	48	95.515	74	69.365	100	54.532	126	44.965	152	38.278	178	33.337
23	150.593	49	94.145	75	68.645	101	54.089	127	44.665	153	38.061	179	33.173
24	147.179	50	92.814	76	67.94	102	53.652	128	44.368	154	37.846	180	33.01
25	143.919	51	91.52	77	67.249	103	53.223	129	44.075	155	37.634		
26	140.801	52	90.263	78	66.573	104	52.801	130	43.787	156	37.424		

表 B1.2 临翔区暴雨强度 $P=3a$ 查用表

临翔区 $P=3a$ t : min q : (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	341.371	27	153.128	53	98.866	79	73.054	105	57.955	131	48.042	157	41.033
2	325.908	28	149.957	54	97.538	80	72.328	106	57.498	132	47.728	158	40.805
3	311.79	29	146.914	55	96.247	81	71.617	107	57.049	133	47.419	159	40.578
4	298.849	30	143.994	56	94.989	82	70.92	108	56.606	134	47.113	160	40.355
5	286.943	31	141.188	57	93.763	83	70.236	109	56.171	135	46.811	161	40.133
6	275.952	32	138.489	58	92.569	84	69.566	110	55.742	136	46.514	162	39.914
7	265.776	33	135.892	59	91.405	85	68.908	111	55.319	137	46.219	163	39.698
8	256.326	34	133.391	60	90.271	86	68.262	112	54.903	138	45.929	164	39.484
9	247.528	35	130.981	61	89.164	87	67.629	113	54.493	139	45.642	165	39.272
10	239.315	36	128.656	62	88.084	88	67.007	114	54.09	140	45.359	166	39.062
11	231.633	37	126.413	63	87.03	89	66.397	115	53.692	141	45.08	167	38.855
12	224.429	38	124.247	64	86.001	90	65.797	116	53.3	142	44.803	168	38.65
13	217.662	39	122.155	65	84.996	91	65.209	117	52.914	143	44.531	169	38.447
14	211.293	40	120.132	66	84.014	92	64.631	118	52.533	144	44.261	170	38.246
15	205.287	41	118.175	67	83.055	93	64.063	119	52.158	145	43.995	171	38.047
16	199.615	42	116.281	68	82.118	94	63.505	120	51.788	146	43.732	172	37.851
17	194.248	43	114.447	69	81.202	95	62.957	121	51.424	147	43.472	173	37.656
18	189.164	44	112.671	70	80.306	96	62.418	122	51.064	148	43.215	174	37.463
19	184.34	45	110.948	71	79.429	97	61.888	123	50.71	149	42.961	175	37.273
20	179.757	46	109.278	72	78.572	98	61.367	124	50.36	150	42.71	176	37.084
21	175.397	47	107.658	73	77.733	99	60.855	125	50.015	151	42.462	177	36.897
22	171.245	48	106.085	74	76.912	100	60.352	126	49.675	152	42.217	178	36.712
23	167.285	49	104.558	75	76.108	101	59.857	127	49.34	153	41.975	179	36.529
24	163.505	50	103.074	76	75.32	102	59.37	128	49.009	154	41.736	180	36.348
25	159.892	51	101.632	77	74.549	103	58.89	129	48.682	155	41.499	181	36.168
26	156.437	52	100.229	78	73.794	104	58.419	130	48.36	156	41.265	182	35.991

表 B1.3 临翔区暴雨强度 P=5a 查用表

临翔区 P=5a t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	377.368	27	170.89	53	110.298	79	81.372	105	64.442	131	53.329	157	45.478
2	360.657	28	167.36	54	108.811	80	80.559	106	63.929	132	52.978	158	45.222
3	345.359	29	163.972	55	107.365	81	79.762	107	63.426	133	52.631	159	44.968
4	331.302	30	160.717	56	105.956	82	78.98	108	62.929	134	52.288	160	44.718
5	318.341	31	157.589	57	104.583	83	78.213	109	62.441	135	51.95	161	44.47
6	306.353	32	154.581	58	103.246	84	77.461	110	61.96	136	51.616	162	44.225
7	295.232	33	151.684	59	101.942	85	76.724	111	61.486	137	51.287	163	43.982
8	284.888	34	148.894	60	100.671	86	76	112	61.02	138	50.961	164	43.743
9	275.242	35	146.204	61	99.43	87	75.289	113	60.561	139	50.64	165	43.506
10	266.226	36	143.609	62	98.22	88	74.592	114	60.108	140	50.323	166	43.271
11	257.779	37	141.104	63	97.039	89	73.908	115	59.662	141	50.01	167	43.039
12	249.851	38	138.685	64	95.886	90	73.236	116	59.223	142	49.7	168	42.809
13	242.394	39	136.348	65	94.76	91	72.576	117	58.79	143	49.395	169	42.582
14	235.368	40	134.087	66	93.66	92	71.927	118	58.363	144	49.093	170	42.357
15	228.736	41	131.9	67	92.585	93	71.291	119	57.942	145	48.794	171	42.135
16	222.467	42	129.783	68	91.534	94	70.665	120	57.528	146	48.5	172	41.915
17	216.531	43	127.733	69	90.507	95	70.05	121	57.119	147	48.209	173	41.697
18	210.903	44	125.746	70	89.503	96	69.446	122	56.716	148	47.921	174	41.481
19	205.559	45	123.82	71	88.52	97	68.852	123	56.319	149	47.637	175	41.268
20	200.478	46	121.952	72	87.559	98	68.268	124	55.927	150	47.356	176	41.056
21	195.641	47	120.139	73	86.618	99	67.694	125	55.541	151	47.078	177	40.847
22	191.032	48	118.379	74	85.698	100	67.129	126	55.159	152	46.803	178	40.64
23	186.634	49	116.67	75	84.796	101	66.574	127	54.783	153	46.532	179	40.436
24	182.433	50	115.009	76	83.914	102	66.028	128	54.413	154	46.264	180	40.233
25	178.417	51	113.394	77	83.049	103	65.49	129	54.047	155	45.999		
26	174.573	52	111.825	78	82.202	104	64.962	130	53.686	156	45.737		

表 B1.4 临翔区暴雨强度 $P=10a$ 查用表

临翔区 $P=10a$ t : min q : (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	415.721	27	190.443	53	122.878	79	90.48	105	71.5	131	59.047	157	50.255
2	397.812	28	186.521	54	121.215	80	89.568	106	70.926	132	58.653	158	49.969
3	381.366	29	182.755	55	119.596	81	88.674	107	70.361	133	58.265	159	49.685
4	366.21	30	179.137	56	118.019	82	87.798	108	69.805	134	57.881	160	49.405
5	352.199	31	175.657	57	116.483	83	86.939	109	69.258	135	57.502	161	49.127
6	339.209	32	172.308	58	114.986	84	86.096	110	68.719	136	57.128	162	48.853
7	327.131	33	169.083	59	113.526	85	85.269	111	68.188	137	56.759	163	48.582
8	315.875	34	165.975	60	112.102	86	84.457	112	67.665	138	56.395	164	48.314
9	305.358	35	162.978	61	110.713	87	83.661	113	67.15	139	56.035	165	48.048
10	295.512	36	160.086	62	109.358	88	82.879	114	66.643	140	55.68	166	47.786
11	286.273	37	157.293	63	108.035	89	82.112	115	66.143	141	55.329	167	47.526
12	277.587	38	154.595	64	106.744	90	81.359	116	65.651	142	54.982	168	47.269
13	269.407	39	151.987	65	105.482	91	80.619	117	65.165	143	54.64	169	47.015
14	261.69	40	149.464	66	104.25	92	79.892	118	64.687	144	54.302	170	46.764
15	254.397	41	147.023	67	103.046	93	79.178	119	64.216	145	53.968	171	46.515
16	247.495	42	144.659	68	101.868	94	78.477	120	63.751	146	53.638	172	46.269
17	240.954	43	142.37	69	100.718	95	77.787	121	63.293	147	53.312	173	46.025
18	234.745	44	140.15	70	99.592	96	77.11	122	62.842	148	52.99	174	45.784
19	228.844	45	137.998	71	98.491	97	76.444	123	62.396	149	52.672	175	45.545
20	223.229	46	135.91	72	97.414	98	75.79	124	61.957	150	52.357	176	45.309
21	217.88	47	133.884	73	96.36	99	75.146	125	61.524	151	52.046	177	45.075
22	212.779	48	131.917	74	95.328	100	74.513	126	61.097	152	51.739	178	44.844
23	207.907	49	130.005	75	94.318	101	73.891	127	60.676	153	51.436	179	44.615
24	203.252	50	128.148	76	93.329	102	73.278	128	60.261	154	51.135	180	44.388
25	198.797	51	126.343	77	92.36	103	72.676	129	59.851	155	50.839		
26	194.532	52	124.586	78	91.41	104	72.083	130	59.446	156	50.545		

表 B1.5 临翔区暴雨强度 $P=20a$ 查用表

临翔区 $P=20a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	461.692	27	213.772	53	137.833	79	101.264	105	79.827	131	65.77	157	55.855
2	442.323	28	209.38	54	135.957	80	100.235	106	79.179	132	65.325	158	55.532
3	424.481	29	205.16	55	134.131	81	99.225	107	78.541	133	64.887	159	55.212
4	407.995	30	201.104	56	132.353	82	98.235	108	77.913	134	64.454	160	54.896
5	392.715	31	197.202	57	130.62	83	97.265	109	77.295	135	64.027	161	54.584
6	378.515	32	193.445	58	128.93	84	96.312	110	76.687	136	63.605	162	54.275
7	365.286	33	189.825	59	127.283	85	95.378	111	76.087	137	63.189	163	53.969
8	352.932	34	186.336	60	125.677	86	94.462	112	75.497	138	62.778	164	53.667
9	341.369	35	182.97	61	124.109	87	93.562	113	74.915	139	62.372	165	53.368
10	330.524	36	179.72	62	122.58	88	92.68	114	74.343	140	61.971	166	53.072
11	320.332	37	176.582	63	121.087	89	91.813	115	73.779	141	61.575	167	52.78
12	310.738	38	173.549	64	119.629	90	90.962	116	73.223	142	61.185	168	52.49
13	301.69	39	170.616	65	118.205	91	90.126	117	72.675	143	60.799	169	52.204
14	293.143	40	167.779	66	116.814	92	89.305	118	72.135	144	60.417	170	51.921
15	285.057	41	165.032	67	115.454	93	88.499	119	71.603	145	60.041	171	51.641
16	277.396	42	162.372	68	114.125	94	87.707	120	71.079	146	59.669	172	51.363
17	270.127	43	159.795	69	112.826	95	86.928	121	70.562	147	59.301	173	51.089
18	263.222	44	157.296	70	111.555	96	86.163	122	70.052	148	58.938	174	50.817
19	256.653	45	154.872	71	110.312	97	85.411	123	69.549	149	58.579	175	50.548
20	250.398	46	152.521	72	109.095	98	84.672	124	69.054	150	58.224	176	50.282
21	244.433	47	150.238	73	107.905	99	83.945	125	68.565	151	57.874	177	50.019
22	238.741	48	148.021	74	106.74	100	83.23	126	68.083	152	57.528	178	49.759
23	233.302	49	145.868	75	105.599	101	82.527	127	67.608	153	57.185	179	49.501
24	228.1	50	143.774	76	104.482	102	81.835	128	67.139	154	56.847	180	49.245
25	223.12	51	141.739	77	103.387	103	81.155	129	66.676	155	56.512		
26	218.348	52	139.759	78	102.315	104	80.486	130	66.22	156	56.182		

表 B1.6 临翔区暴雨强度 $P=30a$ 查用表

临翔区 $P=30a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	491.226	27	228.298	53	147.181	79	108.059	105	85.118	131	70.076	157	59.470
2	470.804	28	223.612	54	145.175	80	106.957	106	84.424	132	69.601	158	59.124
3	451.974	29	219.110	55	143.222	81	105.877	107	83.742	133	69.131	159	58.783
4	434.557	30	214.781	56	141.320	82	104.817	108	83.070	134	68.668	160	58.445
5	418.403	31	210.616	57	139.466	83	103.779	109	82.408	135	68.211	161	58.111
6	403.378	32	206.606	58	137.659	84	102.760	110	81.757	136	67.760	162	57.780
7	389.371	33	202.741	59	135.897	85	101.760	111	81.116	137	67.315	163	57.453
8	376.281	34	199.015	60	134.179	86	100.779	112	80.484	138	66.875	164	57.130
9	364.022	35	195.421	61	132.502	87	99.817	113	79.862	139	66.441	165	56.810
10	352.518	36	191.950	62	130.866	88	98.872	114	79.249	140	66.012	166	56.494
11	341.702	37	188.598	63	129.269	89	97.944	115	78.645	141	65.589	167	56.181
12	331.515	38	185.358	64	127.709	90	97.034	116	78.050	142	65.171	168	55.872
13	321.903	39	182.225	65	126.185	91	96.139	117	77.464	143	64.758	169	55.566
14	312.819	40	179.193	66	124.697	92	95.261	118	76.887	144	64.350	170	55.263
15	304.222	41	176.258	67	123.242	93	94.398	119	76.317	145	63.947	171	54.963
16	296.074	42	173.415	68	121.820	94	93.550	120	75.756	146	63.549	172	54.667
17	288.341	43	170.661	69	120.430	95	92.717	121	75.203	147	63.156	173	54.373
18	280.991	44	167.990	70	119.070	96	91.898	122	74.658	148	62.767	174	54.083
19	273.998	45	165.400	71	117.740	97	91.093	123	74.120	149	62.384	175	53.795
20	267.337	46	162.886	72	116.439	98	90.302	124	73.590	150	62.004	176	53.511
21	260.984	47	160.446	73	115.165	99	89.524	125	73.067	151	61.629	177	53.230
22	254.918	48	158.075	74	113.918	100	88.759	126	72.551	152	61.259	178	52.951
23	249.122	49	155.773	75	112.697	101	88.007	127	72.043	153	60.893	179	52.675
24	243.577	50	153.534	76	111.502	102	87.267	128	71.541	154	60.531	180	52.402
25	238.267	51	151.358	77	110.331	103	86.539	129	71.046	155	60.173		
26	233.179	52	149.241	78	109.183	104	85.823	130	70.558	156	59.820		

表 B1.7 临翔区暴雨强度 $P=50a$ 查用表

临翔区 $P=50a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	525.204	27	244.954	53	157.866	79	115.803	105	91.133	131	74.962	157	63.563
2	503.565	28	239.929	54	155.71	80	114.618	106	90.388	132	74.451	158	63.192
3	483.593	29	235.101	55	153.611	81	113.457	107	89.654	133	73.946	159	62.825
4	465.103	30	230.458	56	151.566	82	112.318	108	88.931	134	73.448	160	62.462
5	447.938	31	225.99	57	149.573	83	111.2	109	88.22	135	72.957	161	62.103
6	431.962	32	221.687	58	147.631	84	110.105	110	87.519	136	72.472	162	61.748
7	417.057	33	217.541	59	145.737	85	109.03	111	86.83	137	71.994	163	61.397
8	403.118	34	213.542	60	143.889	86	107.975	112	86.151	138	71.521	164	61.049
9	390.056	35	209.684	61	142.087	87	106.94	113	85.482	139	71.054	165	60.706
10	377.792	36	205.958	62	140.328	88	105.924	114	84.823	140	70.594	166	60.366
11	366.255	37	202.359	63	138.61	89	104.926	115	84.174	141	70.139	167	60.03
12	355.383	38	198.881	64	136.933	90	103.947	116	83.534	142	69.689	168	59.698
13	345.121	39	195.516	65	135.295	91	102.985	117	82.904	143	69.245	169	59.369
14	335.418	40	192.26	66	133.695	92	102.04	118	82.283	144	68.807	170	59.044
15	326.232	41	189.108	67	132.131	93	101.112	119	81.671	145	68.374	171	58.722
16	317.522	42	186.055	68	130.602	94	100.201	120	81.068	146	67.946	172	58.403
17	309.252	43	183.096	69	129.107	95	99.305	121	80.473	147	67.524	173	58.088
18	301.39	44	180.227	70	127.645	96	98.424	122	79.887	148	67.106	174	57.776
19	293.908	45	177.444	71	126.214	97	97.559	123	79.309	149	66.694	175	57.467
20	286.778	46	174.743	72	124.815	98	96.708	124	78.739	150	66.286	176	57.162
21	279.976	47	172.121	73	123.445	99	95.871	125	78.177	151	65.884	177	56.859
22	273.481	48	169.575	74	122.104	100	95.049	126	77.622	152	65.486	178	56.56
23	267.272	49	167.1	75	120.792	101	94.24	127	77.076	153	65.092	179	56.264
24	261.33	50	164.695	76	119.506	102	93.444	128	76.536	154	64.703	180	55.971
25	255.641	51	162.356	77	118.246	103	92.661	129	76.004	155	64.319		
26	250.186	52	160.08	78	117.013	104	91.891	130	75.479	156	63.939		

表 B1.8 临翔区暴雨强度 $P=100a$ 查用表

临翔区 $P=100a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	568.137	27	266.225	53	171.558	79	125.743	105	98.86	131	81.241	157	68.826
2	544.994	28	260.772	54	169.211	80	124.451	106	98.048	132	80.684	158	68.422
3	523.607	29	255.532	55	166.925	81	123.185	107	97.248	133	80.134	159	68.022
4	503.786	30	250.491	56	164.699	82	121.944	108	96.461	134	79.592	160	67.627
5	485.366	31	245.639	57	162.529	83	120.727	109	95.685	135	79.057	161	67.236
6	468.205	32	240.965	58	160.414	84	119.533	110	94.922	136	78.529	162	66.849
7	452.18	33	236.461	59	158.351	85	118.362	111	94.171	137	78.007	163	66.467
8	437.183	34	232.116	60	156.339	86	117.212	112	93.431	138	77.493	164	66.089
9	423.119	35	227.924	61	154.376	87	116.084	113	92.702	139	76.984	165	65.715
10	409.904	36	223.875	62	152.46	88	114.977	114	91.984	140	76.483	166	65.345
11	397.465	37	219.963	63	150.589	89	113.89	115	91.277	141	75.987	167	64.979
12	385.735	38	216.181	64	148.762	90	112.823	116	90.58	142	75.498	168	64.617
13	374.657	39	212.523	65	146.978	91	111.775	117	89.893	143	75.014	169	64.259
14	364.178	40	208.982	66	145.235	92	110.745	118	89.217	144	74.537	170	63.905
15	354.252	41	205.554	67	143.531	93	109.734	119	88.55	145	74.065	171	63.555
16	344.835	42	202.234	68	141.865	94	108.741	120	87.893	146	73.599	172	63.208
17	335.891	43	199.015	69	140.237	95	107.764	121	87.245	147	73.139	173	62.865
18	327.385	44	195.894	70	138.644	96	106.805	122	86.606	148	72.685	174	62.525
19	319.286	45	192.866	71	137.086	97	105.862	123	85.976	149	72.235	175	62.189
20	311.565	46	189.927	72	135.561	98	104.935	124	85.355	150	71.792	176	61.857
21	304.198	47	187.074	73	134.069	99	104.023	125	84.743	151	71.353	177	61.528
22	297.16	48	184.303	74	132.608	100	103.127	126	84.139	152	70.919	178	61.202
23	290.43	49	181.609	75	131.177	101	102.245	127	83.544	153	70.491	179	60.879
24	283.989	50	178.991	76	129.777	102	101.378	128	82.956	154	70.068	180	60.56
25	277.819	51	176.445	77	128.404	103	100.525	129	82.376	155	69.649		
26	271.902	52	173.968	78	127.06	104	99.686	130	81.805	156	69.235		

B2 云县暴雨强度查用表

表 B2.1 云县暴雨强度 P=2a 查用表

云县 P=2a t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	276.991	27	127.712	53	84.202	79	63.216	105	50.792	131	42.552	157	36.675
2	264.713	28	125.184	54	83.129	80	62.622	106	50.414	132	42.29	158	36.482
3	253.512	29	122.757	55	82.084	81	62.039	107	50.042	133	42.031	159	36.291
4	243.252	30	120.426	56	81.066	82	61.468	108	49.675	134	41.776	160	36.103
5	233.818	31	118.185	57	80.074	83	60.907	109	49.314	135	41.523	161	35.916
6	225.113	32	116.029	58	79.106	84	60.357	110	48.959	136	41.274	162	35.732
7	217.055	33	113.953	59	78.163	85	59.817	111	48.609	137	41.028	163	35.549
8	209.573	34	111.953	60	77.243	86	59.288	112	48.263	138	40.785	164	35.368
9	202.607	35	110.024	61	76.344	87	58.767	113	47.923	139	40.545	165	35.19
10	196.105	36	108.163	62	75.468	88	58.256	114	47.588	140	40.308	166	35.013
11	190.021	37	106.366	63	74.612	89	57.755	115	47.258	141	40.074	167	34.838
12	184.317	38	104.63	64	73.775	90	57.262	116	46.932	142	39.842	168	34.664
13	178.957	39	102.952	65	72.958	91	56.778	117	46.611	143	39.613	169	34.493
14	173.91	40	101.329	66	72.16	92	56.302	118	46.295	144	39.387	170	34.323
15	169.151	41	99.757	67	71.379	93	55.834	119	45.983	145	39.164	171	34.155
16	164.653	42	98.236	68	70.616	94	55.375	120	45.675	146	38.943	172	33.989
17	160.397	43	96.762	69	69.87	95	54.923	121	45.372	147	38.725	173	33.824
18	156.364	44	95.333	70	69.139	96	54.479	122	45.072	148	38.509	174	33.661
19	152.535	45	93.947	71	68.425	97	54.042	123	44.777	149	38.296	175	33.5
20	148.896	46	92.603	72	67.725	98	53.612	124	44.486	150	38.085	176	33.34
21	145.432	47	91.298	73	67.041	99	53.189	125	44.199	151	37.877	177	33.182
22	142.131	48	90.03	74	66.37	100	52.774	126	43.915	152	37.671	178	33.025
23	138.983	49	88.798	75	65.713	101	52.365	127	43.635	153	37.467	179	32.87
24	135.975	50	87.601	76	65.07	102	51.962	128	43.359	154	37.266	180	32.716
25	133.1	51	86.437	77	64.439	103	51.566	129	43.087	155	37.066		
26	130.348	52	85.304	78	63.821	104	51.176	130	42.818	156	36.869		

表 B2.2 云县暴雨强度 $P=3a$ 查用表

云县 $P=3a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	307.322	27	142.156	53	94.43	79	71.354	105	57.644	131	48.518	157	41.987
2	293.585	28	139.383	54	93.252	80	70.7	106	57.226	132	48.228	158	41.772
3	281.082	29	136.721	55	92.104	81	70.058	107	56.815	133	47.94	159	41.56
4	269.653	30	134.165	56	90.986	82	69.428	108	56.409	134	47.657	160	41.35
5	259.163	31	131.707	57	89.896	83	68.81	109	56.01	135	47.377	161	41.142
6	249.498	32	129.343	58	88.833	84	68.204	110	55.617	136	47.1	162	40.937
7	240.564	33	127.066	59	87.797	85	67.609	111	55.229	137	46.827	163	40.733
8	232.28	34	124.873	60	86.786	86	67.025	112	54.847	138	46.557	164	40.532
9	224.576	35	122.758	61	85.799	87	66.451	113	54.471	139	46.29	165	40.333
10	217.392	36	120.717	62	84.835	88	65.887	114	54.1	140	46.027	166	40.136
11	210.676	37	118.746	63	83.894	89	65.334	115	53.734	141	45.766	167	39.941
12	204.384	38	116.843	64	82.975	90	64.79	116	53.373	142	45.509	168	39.747
13	198.476	39	115.002	65	82.076	91	64.256	117	53.018	143	45.255	169	39.556
14	192.917	40	113.222	66	81.198	92	63.731	118	52.668	144	45.004	170	39.367
15	187.677	41	111.498	67	80.34	93	63.215	119	52.322	145	44.756	171	39.18
16	182.729	42	109.83	68	79.501	94	62.707	120	51.981	146	44.51	172	38.994
17	178.048	43	108.213	69	78.68	95	62.208	121	51.645	147	44.268	173	38.811
18	173.613	44	106.645	70	77.876	96	61.718	122	51.313	148	44.028	174	38.629
19	169.406	45	105.125	71	77.09	97	61.235	123	50.986	149	43.791	175	38.449
20	165.408	46	103.65	72	76.32	98	60.761	124	50.663	150	43.556	176	38.271
21	161.604	47	102.218	73	75.566	99	60.294	125	50.344	151	43.324	177	38.094
22	157.98	48	100.827	74	74.828	100	59.835	126	50.03	152	43.095	178	37.919
23	154.523	49	99.475	75	74.105	101	59.383	127	49.72	153	42.869	179	37.746
24	151.223	50	98.161	76	73.397	102	58.938	128	49.414	154	42.645	180	37.575
25	148.067	51	96.883	77	72.702	103	58.5	129	49.111	155	42.423		
26	145.048	52	95.64	78	72.022	104	58.069	130	48.813	156	42.204		

表 B2.3 云县暴雨强度 P=5a 查用表

云县 P=5a t: min q: (L/s·hm²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	345.225	27	160.184	53	107.321	79	81.698	105	66.413	131	56.197	157	48.857
2	329.614	28	157.112	54	106.015	80	80.97	106	65.946	132	55.871	158	48.616
3	315.448	29	154.164	55	104.743	81	80.256	107	65.486	133	55.549	159	48.377
4	302.533	30	151.332	56	103.503	82	79.555	108	65.033	134	55.23	160	48.14
5	290.705	31	148.61	57	102.294	83	78.867	109	64.587	135	54.916	161	47.906
6	279.831	32	145.992	58	101.115	84	78.191	110	64.147	136	54.605	162	47.674
7	269.797	33	143.471	59	99.965	85	77.529	111	63.713	137	54.299	163	47.445
8	260.507	34	141.042	60	98.843	86	76.878	112	63.286	138	53.996	164	47.218
9	251.881	35	138.7	61	97.748	87	76.238	113	62.865	139	53.696	165	46.994
10	243.847	36	136.44	62	96.679	88	75.611	114	62.45	140	53.4	166	46.772
11	236.345	37	134.258	63	95.634	89	74.994	115	62.041	141	53.108	167	46.552
12	229.324	38	132.15	64	94.613	90	74.388	116	61.637	142	52.819	168	46.334
13	222.738	39	130.112	65	93.616	91	73.792	117	61.239	143	52.533	169	46.119
14	216.546	40	128.14	66	92.641	92	73.207	118	60.847	144	52.251	170	45.905
15	210.713	41	126.232	67	91.688	93	72.631	119	60.46	145	51.972	171	45.694
16	205.209	42	124.384	68	90.755	94	72.065	120	60.078	146	51.696	172	45.485
17	200.005	43	122.593	69	89.843	95	71.509	121	59.701	147	51.423	173	45.277
18	195.078	44	120.857	70	88.95	96	70.961	122	59.33	148	51.154	174	45.072
19	190.405	45	119.173	71	88.076	97	70.423	123	58.963	149	50.887	175	44.869
20	185.966	46	117.539	72	87.221	98	69.893	124	58.602	150	50.623	176	44.668
21	181.745	47	115.952	73	86.383	99	69.372	125	58.245	151	50.363	177	44.469
22	177.725	48	114.411	74	85.562	100	68.86	126	57.892	152	50.105	178	44.271
23	173.892	49	112.913	75	84.758	101	68.355	127	57.544	153	49.85	179	44.076
24	170.232	50	111.457	76	83.97	102	67.858	128	57.201	154	49.598	180	43.882
25	166.735	51	110.041	77	83.198	103	67.369	129	56.862	155	49.348		
26	163.389	52	108.663	78	82.441	104	66.887	130	56.527	156	49.101		

表 B2.4 云县暴雨强度 $P=10a$ 查用表

云县 $P=10a$ t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	394.338	27	183.312	53	123.721	79	94.783	105	77.462	131	65.846	157	57.473
2	376.285	28	179.847	54	122.247	80	93.959	106	76.932	132	65.475	158	57.197
3	359.951	29	176.523	55	120.812	81	93.15	107	76.41	133	65.107	159	56.924
4	345.097	30	173.331	56	119.413	82	92.357	108	75.895	134	64.745	160	56.654
5	331.524	31	170.262	57	118.049	83	91.578	109	75.388	135	64.387	161	56.386
6	319.071	32	167.311	58	116.719	84	90.814	110	74.889	136	64.033	162	56.122
7	307.601	33	164.469	59	115.421	85	90.063	111	74.396	137	63.683	163	55.86
8	296.998	34	161.732	60	114.155	86	89.326	112	73.911	138	63.338	164	55.6
9	287.165	35	159.092	61	112.918	87	88.603	113	73.432	139	62.996	165	55.344
10	278.02	36	156.545	62	111.711	88	87.891	114	72.96	140	62.659	166	55.089
11	269.491	37	154.086	63	110.532	89	87.193	115	72.495	141	62.325	167	54.838
12	261.516	38	151.71	64	109.379	90	86.506	116	72.037	142	61.996	168	54.589
13	254.041	39	149.413	65	108.253	91	85.831	117	71.584	143	61.67	169	54.342
14	247.019	40	147.191	66	107.152	92	85.168	118	71.138	144	61.348	170	54.098
15	240.41	41	145.041	67	106.075	93	84.515	119	70.698	145	61.03	171	53.856
16	234.177	42	142.958	68	105.022	94	83.874	120	70.264	146	60.715	172	53.617
17	228.288	43	140.939	69	103.991	95	83.243	121	69.835	147	60.404	173	53.38
18	222.714	44	138.982	70	102.982	96	82.623	122	69.413	148	60.096	174	53.145
19	217.431	45	137.084	71	101.995	97	82.012	123	68.995	149	59.792	175	52.912
20	212.415	46	135.242	72	101.028	98	81.411	124	68.584	150	59.491	176	52.682
21	207.646	47	133.453	73	100.081	99	80.82	125	68.177	151	59.193	177	52.454
22	203.106	48	131.716	74	99.153	100	80.239	126	67.776	152	58.898	178	52.228
23	198.779	49	130.027	75	98.244	101	79.666	127	67.38	153	58.607	179	52.004
24	194.648	50	128.385	76	97.353	102	79.102	128	66.99	154	58.319	180	51.782
25	190.702	51	126.788	77	96.479	103	78.547	129	66.604	155	58.034		
26	186.927	52	125.234	78	95.622	104	78.001	130	66.223	156	57.752		

表 B2.5 云县暴雨强度 P=20a 查用表

云县 P=20a t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	443.33	27	207.458	53	140.93	79	108.513	105	89.046	131	75.95	157	66.486
2	423.056	28	203.594	54	139.282	80	107.589	106	88.449	132	75.531	158	66.173
3	404.734	29	199.886	55	137.676	81	106.681	107	87.861	133	75.116	159	65.864
4	388.089	30	196.326	56	136.111	82	105.791	108	87.281	134	74.707	160	65.558
5	372.893	31	192.903	57	134.585	83	104.916	109	86.71	135	74.302	161	65.255
6	358.959	32	189.611	58	133.096	84	104.058	110	86.147	136	73.902	162	64.956
7	346.133	33	186.441	59	131.644	85	103.215	111	85.593	137	73.507	163	64.659
8	334.284	34	183.386	60	130.226	86	102.387	112	85.046	138	73.117	164	64.365
9	323.3	35	180.441	61	128.842	87	101.574	113	84.507	139	72.731	165	64.075
10	313.088	36	177.598	62	127.49	88	100.775	114	83.975	140	72.35	166	63.787
11	303.567	37	174.854	63	126.169	89	99.99	115	83.451	141	71.973	167	63.502
12	294.667	38	172.202	64	124.879	90	99.218	116	82.934	142	71.601	168	63.22
13	286.327	39	169.637	65	123.617	91	98.46	117	82.424	143	71.233	169	62.94
14	278.494	40	167.156	66	122.383	92	97.714	118	81.921	144	70.869	170	62.664
15	271.122	41	164.755	67	121.177	93	96.981	119	81.424	145	70.509	171	62.39
16	264.171	42	162.429	68	119.996	94	96.26	120	80.935	146	70.153	172	62.118
17	257.604	43	160.174	69	118.841	95	95.55	121	80.452	147	69.801	173	61.85
18	251.389	44	157.989	70	117.71	96	94.852	122	79.975	148	69.453	174	61.583
19	245.499	45	155.868	71	116.603	97	94.166	123	79.504	149	69.109	175	61.32
20	239.906	46	153.809	72	115.519	98	93.49	124	79.04	150	68.768	176	61.059
21	234.59	47	151.811	73	114.457	99	92.825	125	78.582	151	68.432	177	60.8
22	229.528	48	149.869	74	113.416	100	92.171	126	78.129	152	68.099	178	60.544
23	224.703	49	147.981	75	112.397	101	91.526	127	77.682	153	67.769	179	60.29
24	220.098	50	146.145	76	111.397	102	90.892	128	77.241	154	67.443	180	60.038
25	215.698	51	144.36	77	110.417	103	90.267	129	76.805	155	67.121		
26	211.489	52	142.622	78	109.456	104	89.652	130	76.375	156	66.802		

表 B2.5 云县暴雨强度 $P=30a$ 查用表

云县 $P=30a$ t : min q : (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	468.925	27	219.666	53	149.556	79	115.369	105	94.817	131	80.978	157	70.966
2	447.422	28	215.595	54	147.818	80	114.393	106	94.186	132	80.534	158	70.636
3	428.005	29	211.688	55	146.126	81	113.435	107	93.565	133	80.096	159	70.308
4	410.377	30	207.936	56	144.476	82	112.496	108	92.953	134	79.663	160	69.985
5	394.293	31	204.329	57	142.867	83	111.573	109	92.350	135	79.235	161	69.664
6	379.554	32	200.859	58	141.297	84	110.667	110	91.755	136	78.812	162	69.347
7	365.993	33	197.519	59	139.766	85	109.778	111	91.169	137	78.394	163	69.033
8	353.469	34	194.300	60	138.271	86	108.904	112	90.591	138	77.982	164	68.722
9	341.865	35	191.196	61	136.811	87	108.046	113	90.021	139	77.574	165	68.414
10	331.079	36	188.201	62	135.386	88	107.202	114	89.460	140	77.170	166	68.109
11	321.026	37	185.309	63	133.993	89	106.373	115	88.906	141	76.772	167	67.808
12	311.631	38	182.514	64	132.632	90	105.559	116	88.359	142	76.378	168	67.509
13	302.829	39	179.812	65	131.302	91	104.758	117	87.820	143	75.988	169	67.213
14	294.564	40	177.198	66	130.001	92	103.971	118	87.289	144	75.603	170	66.920
15	286.787	41	174.667	67	128.728	93	103.196	119	86.764	145	75.223	171	66.630
16	279.455	42	172.215	68	127.483	94	102.435	120	86.247	146	74.846	172	66.343
17	272.529	43	169.840	69	126.264	95	101.686	121	85.736	147	74.474	173	66.058
18	265.975	44	167.536	70	125.072	96	100.949	122	85.232	148	74.106	174	65.777
19	259.764	45	165.301	71	123.904	97	100.224	123	84.735	149	73.742	175	65.498
20	253.868	46	163.132	72	122.760	98	99.511	124	84.244	150	73.381	176	65.221
21	248.263	47	161.025	73	121.640	99	98.809	125	83.759	151	73.025	177	64.947
22	242.928	48	158.978	74	120.542	100	98.117	126	83.281	152	72.673	178	64.676
23	237.842	49	156.988	75	119.466	101	97.437	127	82.809	153	72.324	179	64.407
24	232.988	50	155.054	76	118.412	102	96.767	128	82.342	154	71.979	180	64.141
25	228.351	51	153.171	77	117.378	103	96.107	129	81.882	155	71.638	181	63.877
26	223.914	52	151.339	78	116.364	104	95.457	130	81.427	156	71.300	182	63.615

表 B2.7 云县暴雨强度 $P=50a$ 查用表

云县 $P=50a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	499.647	27	233.988	53	159.611	79	123.337	105	101.514	131	86.805	157	76.156
2	476.61	28	229.667	54	157.768	80	122.301	106	100.844	132	86.333	158	75.804
3	455.832	29	225.521	55	155.973	81	121.285	107	100.184	133	85.867	159	75.456
4	436.985	30	221.54	56	154.222	82	120.287	108	99.533	134	85.407	160	75.111
5	419.804	31	217.713	57	152.515	83	119.308	109	98.892	135	84.952	161	74.77
6	404.071	32	214.032	58	150.85	84	118.346	110	98.26	136	84.502	162	74.433
7	389.604	33	210.488	59	149.226	85	117.402	111	97.637	137	84.058	163	74.098
8	376.252	34	207.073	60	147.64	86	116.474	112	97.023	138	83.619	164	73.767
9	363.887	35	203.78	61	146.092	87	115.563	113	96.418	139	83.185	165	73.44
10	352.4	36	200.603	62	144.579	88	114.667	114	95.821	140	82.756	166	73.115
11	341.697	37	197.535	63	143.102	89	113.787	115	95.232	141	82.333	167	72.794
12	331.698	38	194.571	64	141.657	90	112.922	116	94.652	142	81.913	168	72.476
13	322.334	39	191.704	65	140.246	91	112.072	117	94.079	143	81.499	169	72.162
14	313.544	40	188.931	66	138.865	92	111.236	118	93.514	144	81.09	170	71.85
15	305.276	41	186.247	67	137.515	93	110.414	119	92.957	145	80.685	171	71.541
16	297.482	42	183.647	68	136.194	94	109.605	120	92.407	146	80.284	172	71.235
17	290.121	43	181.127	69	134.901	95	108.81	121	91.864	147	79.888	173	70.932
18	283.158	44	178.683	70	133.635	96	108.027	122	91.328	148	79.496	174	70.632
19	276.56	45	176.313	71	132.396	97	107.257	123	90.8	149	79.109	175	70.335
20	270.297	46	174.011	72	131.182	98	106.5	124	90.278	150	78.726	176	70.041
21	264.345	47	171.777	73	129.993	99	105.754	125	89.763	151	78.347	177	69.749
22	258.679	48	169.606	74	128.828	100	105.019	126	89.254	152	77.972	178	69.46
23	253.28	49	167.495	75	127.686	101	104.297	127	88.752	153	77.601	179	69.174
24	248.127	50	165.443	76	126.567	102	103.585	128	88.256	154	77.234	180	68.89
25	243.204	51	163.446	77	125.469	103	102.884	129	87.766	155	76.871		
26	238.496	52	161.503	78	124.393	104	102.194	130	87.283	156	76.512		

表 B2.8 云县暴雨强度 $P=100a$ 查用表

云县 $P=100a$ t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	542.314	27	253.722	53	173.469	79	134.327	105	110.758	131	94.856	157	83.332
2	517.106	28	249.057	54	171.481	80	133.209	106	110.034	132	94.346	158	82.951
3	494.405	29	244.582	55	169.544	81	132.112	107	109.321	133	93.842	159	82.574
4	473.841	30	240.284	56	167.655	82	131.035	108	108.618	134	93.344	160	82.201
5	455.118	31	236.154	57	165.814	83	129.977	109	107.925	135	92.852	161	81.831
6	437.99	32	232.181	58	164.018	84	128.939	110	107.242	136	92.365	162	81.466
7	422.255	33	228.357	59	162.265	85	127.919	111	106.569	137	91.885	163	81.104
8	407.744	34	224.672	60	160.554	86	126.918	112	105.905	138	91.41	164	80.745
9	394.316	35	221.119	61	158.883	87	125.934	113	105.251	139	90.94	165	80.39
10	381.849	36	217.69	62	157.251	88	124.967	114	104.606	140	90.476	166	80.039
11	370.24	37	214.38	63	155.657	89	124.016	115	103.969	141	90.018	167	79.691
12	359.401	38	211.182	64	154.099	90	123.082	116	103.342	142	89.564	168	79.347
13	349.254	39	208.09	65	152.576	91	122.164	117	102.722	143	89.116	169	79.006
14	339.734	40	205.098	66	151.086	92	121.261	118	102.112	144	88.672	170	78.668
15	330.782	41	202.202	67	149.629	93	120.373	119	101.509	145	88.234	171	78.334
16	322.347	42	199.397	68	148.203	94	119.5	120	100.914	146	87.801	172	78.002
17	314.383	43	196.678	69	146.808	95	118.641	121	100.327	147	87.372	173	77.674
18	306.852	44	194.042	70	145.442	96	117.795	122	99.748	148	86.948	174	77.349
19	299.717	45	191.485	71	144.105	97	116.963	123	99.177	149	86.529	175	77.027
20	292.947	46	189.003	72	142.795	98	116.145	124	98.612	150	86.114	176	76.708
21	286.514	47	186.592	73	141.512	99	115.339	125	98.055	151	85.704	177	76.392
22	280.391	48	184.25	74	140.254	100	114.546	126	97.505	152	85.298	178	76.079
23	274.558	49	181.974	75	139.022	101	113.765	127	96.962	153	84.896	179	75.769
24	268.992	50	179.76	76	137.814	102	112.996	128	96.426	154	84.499	180	75.462
25	263.675	51	177.606	77	136.629	103	112.239	129	95.896	155	84.106		
26	258.59	52	175.51	78	135.467	104	111.493	130	95.373	156	83.717		

B3 凤庆县暴雨强度查用表

表 B3.1 凤庆县暴雨强度 P=2a 查用表

凤庆县 P=2a t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	282.303	27	129.641	53	89.57	79	70.11	105	58.358	131	50.393	157	44.592
2	268.173	28	127.297	54	88.582	80	69.553	106	57.996	132	50.137	158	44.4
3	255.605	29	125.05	55	87.619	81	69.007	107	57.639	133	49.884	159	44.21
4	244.343	30	122.895	56	86.681	82	68.471	108	57.288	134	49.633	160	44.021
5	234.185	31	120.826	57	85.765	83	67.944	109	56.942	135	49.386	161	43.835
6	224.97	32	118.836	58	84.873	84	67.427	110	56.6	136	49.142	162	43.65
7	216.568	33	116.923	59	84.001	85	66.919	111	56.263	137	48.9	163	43.467
8	208.869	34	115.08	60	83.151	86	66.42	112	55.931	138	48.661	164	43.286
9	201.787	35	113.305	61	82.321	87	65.93	113	55.604	139	48.425	165	43.107
10	195.246	36	111.593	62	81.51	88	65.448	114	55.281	140	48.192	166	42.93
11	189.184	37	109.94	63	80.717	89	64.975	115	54.962	141	47.961	167	42.754
12	183.548	38	108.345	64	79.943	90	64.509	116	54.648	142	47.733	168	42.58
13	178.293	39	106.802	65	79.186	91	64.051	117	54.338	143	47.507	169	42.407
14	173.379	40	105.311	66	78.445	92	63.601	118	54.032	144	47.284	170	42.236
15	168.773	41	103.868	67	77.721	93	63.158	119	53.73	145	47.063	171	42.067
16	164.446	42	102.47	68	77.012	94	62.722	120	53.432	146	46.845	172	41.899
17	160.371	43	101.117	69	76.318	95	62.294	121	53.138	147	46.629	173	41.733
18	156.527	44	99.804	70	75.639	96	61.872	122	52.847	148	46.416	174	41.569
19	152.894	45	98.531	71	74.974	97	61.457	123	52.561	149	46.204	175	41.406
20	149.453	46	97.296	72	74.323	98	61.048	124	52.278	150	45.995	176	41.244
21	146.19	47	96.097	73	73.685	99	60.646	125	51.998	151	45.789	177	41.084
22	143.09	48	94.931	74	73.059	100	60.25	126	51.723	152	45.584	178	40.926
23	140.14	49	93.799	75	72.446	101	59.86	127	51.45	153	45.381	179	40.769
24	137.33	50	92.698	76	71.845	102	59.476	128	51.181	154	45.181	180	40.613
25	134.649	51	91.627	77	71.255	103	59.098	129	50.915	155	44.983		
26	132.089	52	90.585	78	70.677	104	58.725	130	50.653	156	44.787		

表 B3.2 凤庆县暴雨强度 $P=3a$ 查用表

凤庆县 $P=3a$ t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	305.142	27	144.749	53	100.739	79	79.112	105	65.977	131	57.044	157	50.523
2	290.812	28	142.195	54	99.645	80	78.491	106	65.571	132	56.756	158	50.307
3	277.975	29	139.745	55	98.578	81	77.882	107	65.172	133	56.471	159	50.093
4	266.4	30	137.392	56	97.538	82	77.283	108	64.778	134	56.19	160	49.881
5	255.902	31	135.13	57	96.523	83	76.695	109	64.39	135	55.912	161	49.671
6	246.331	32	132.955	58	95.533	84	76.118	110	64.007	136	55.638	162	49.463
7	237.564	33	130.86	59	94.566	85	75.551	111	63.63	137	55.366	163	49.257
8	229.499	34	128.842	60	93.623	86	74.994	112	63.258	138	55.098	164	49.053
9	222.053	35	126.895	61	92.701	87	74.446	113	62.89	139	54.833	165	48.851
10	215.152	36	125.017	62	91.8	88	73.908	114	62.528	140	54.571	166	48.652
11	208.737	37	123.203	63	90.92	89	73.379	115	62.171	141	54.311	167	48.454
12	202.756	38	121.45	64	90.059	90	72.858	116	61.819	142	54.055	168	48.258
13	197.165	39	119.754	65	89.218	91	72.347	117	61.471	143	53.801	169	48.063
14	191.924	40	118.114	66	88.395	92	71.843	118	61.128	144	53.55	170	47.871
15	187.001	41	116.525	67	87.589	93	71.348	119	60.789	145	53.302	171	47.68
16	182.366	42	114.986	68	86.801	94	70.861	120	60.455	146	53.057	172	47.492
17	177.993	43	113.494	69	86.029	95	70.382	121	60.125	147	52.814	173	47.305
18	173.86	44	112.048	70	85.273	96	69.91	122	59.799	148	52.574	174	47.119
19	169.946	45	110.643	71	84.533	97	69.446	123	59.477	149	52.336	175	46.936
20	166.234	46	109.28	72	83.807	98	68.989	124	59.16	150	52.101	176	46.754
21	162.708	47	107.956	73	83.096	99	68.538	125	58.846	151	51.869	177	46.574
22	159.354	48	106.669	74	82.399	100	68.095	126	58.536	152	51.639	178	46.395
23	156.158	49	105.418	75	81.716	101	67.659	127	58.231	153	51.411	179	46.218
24	153.11	50	104.2	76	81.046	102	67.229	128	57.928	154	51.185	180	46.043
25	150.199	51	103.016	77	80.389	103	66.805	129	57.63	155	50.962		
26	147.415	52	101.862	78	79.745	104	66.388	130	57.335	156	50.742		

表 B3.3 凤庆县暴雨强度 P=5a 查用表

凤庆县 P=5a t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	331.816	27	162.24	53	113.69	79	89.555	105	74.814	131	64.756	157	57.397
2	317.168	28	159.444	54	112.473	80	88.859	106	74.358	132	64.431	158	57.153
3	303.961	29	156.759	55	111.286	81	88.177	107	73.909	133	64.11	159	56.911
4	291.982	30	154.179	56	110.129	82	87.506	108	73.466	134	63.793	160	56.672
5	281.061	31	151.696	57	108.999	83	86.847	109	73.029	135	63.48	161	56.435
6	271.057	32	149.307	58	107.896	84	86.2	110	72.599	136	63.17	162	56.2
7	261.855	33	147.004	59	106.82	85	85.565	111	72.174	137	62.864	163	55.967
8	253.358	34	144.783	60	105.768	86	84.94	112	71.755	138	62.562	164	55.737
9	245.485	35	142.639	61	104.74	87	84.326	113	71.342	139	62.262	165	55.509
10	238.165	36	140.57	62	103.736	88	83.722	114	70.934	140	61.966	166	55.283
11	231.341	37	138.569	63	102.754	89	83.128	115	70.532	141	61.674	167	55.059
12	224.961	38	136.635	64	101.794	90	82.544	116	70.135	142	61.384	168	54.838
13	218.981	39	134.763	65	100.854	91	81.97	117	69.744	143	61.098	169	54.618
14	213.363	40	132.951	66	99.935	92	81.405	118	69.357	144	60.815	170	54.401
15	208.075	41	131.195	67	99.036	93	80.849	119	68.976	145	60.535	171	54.186
16	203.085	42	129.493	68	98.155	94	80.302	120	68.599	146	60.258	172	53.972
17	198.369	43	127.842	69	97.293	95	79.764	121	68.228	147	59.984	173	53.761
18	193.904	44	126.24	70	96.448	96	79.234	122	67.861	148	59.713	174	53.551
19	189.668	45	124.684	71	95.62	97	78.713	123	67.498	149	59.445	175	53.344
20	185.645	46	123.173	72	94.809	98	78.199	124	67.141	150	59.18	176	53.138
21	181.818	47	121.705	73	94.014	99	77.693	125	66.787	151	58.917	177	52.934
22	178.172	48	120.277	74	93.235	100	77.195	126	66.438	152	58.657	178	52.732
23	174.694	49	118.888	75	92.47	101	76.705	127	66.094	153	58.4	179	52.532
24	171.372	50	117.537	76	91.721	102	76.222	128	65.753	154	58.146	180	52.334
25	168.195	51	116.221	77	90.985	103	75.745	129	65.417	155	57.894		
26	165.154	52	114.939	78	90.263	104	75.276	130	65.084	156	57.644		

表 B3.4 凤庆县暴雨强度 $P=10a$ 查用表

凤庆县 $P=10a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	357.489	27	181.013	53	127.852	79	101.047	105	84.564	131	73.273	157	64.992
2	342.848	28	177.98	54	126.506	80	100.271	106	84.053	132	72.908	158	64.717
3	329.547	29	175.065	55	125.193	81	99.509	107	83.549	133	72.548	159	64.444
4	317.401	30	172.26	56	123.911	82	98.761	108	83.053	134	72.191	160	64.174
5	306.26	31	169.559	57	122.66	83	98.025	109	82.563	135	71.839	161	63.907
6	295.999	32	166.956	58	121.438	84	97.303	110	82.08	136	71.491	162	63.643
7	286.513	33	164.444	59	120.245	85	96.593	111	81.604	137	71.146	163	63.381
8	277.713	34	162.02	60	119.079	86	95.895	112	81.134	138	70.806	164	63.121
9	269.525	35	159.679	61	117.939	87	95.209	113	80.67	139	70.469	165	62.864
10	261.884	36	157.416	62	116.825	88	94.534	114	80.213	140	70.136	166	62.609
11	254.735	37	155.226	63	115.735	89	93.87	115	79.762	141	69.807	167	62.357
12	248.029	38	153.108	64	114.669	90	93.218	116	79.316	142	69.481	168	62.108
13	241.725	39	151.056	65	113.625	91	92.576	117	78.877	143	69.159	169	61.86
14	235.786	40	149.068	66	112.604	92	91.944	118	78.443	144	68.841	170	61.615
15	230.18	41	147.141	67	111.604	93	91.322	119	78.015	145	68.526	171	61.372
16	224.879	42	145.271	68	110.625	94	90.71	120	77.592	146	68.214	172	61.132
17	219.856	43	143.456	69	109.666	95	90.108	121	77.175	147	67.905	173	60.893
18	215.09	44	141.694	70	108.726	96	89.515	122	76.762	148	67.6	174	60.657
19	210.56	45	139.982	71	107.805	97	88.931	123	76.355	149	67.298	175	60.423
20	206.249	46	138.318	72	106.902	98	88.356	124	75.954	150	66.999	176	60.191
21	202.141	47	136.7	73	106.017	99	87.79	125	75.557	151	66.704	177	59.961
22	198.22	48	135.125	74	105.148	100	87.232	126	75.164	152	66.411	178	59.733
23	194.474	49	133.593	75	104.297	101	86.683	127	74.777	153	66.121	179	59.508
24	190.891	50	132.101	76	103.461	102	86.141	128	74.394	154	65.835	180	59.284
25	187.459	51	130.648	77	102.641	103	85.608	129	74.016	155	65.551		
26	184.169	52	129.232	78	101.837	104	85.082	130	73.642	156	65.27		

表 B3.5 凤庆县暴雨强度 $P=20a$ 查用表

凤庆县 $P=20a$ t : min q : (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	384.111	27	203.464	53	144.936	79	114.833	105	96.16	131	83.31	157	73.861
2	369.98	28	200.172	54	143.432	80	113.956	106	95.579	132	82.894	158	73.547
3	357.005	29	197.002	55	141.965	81	113.095	107	95.007	133	82.483	159	73.235
4	345.043	30	193.946	56	140.533	82	112.25	108	94.443	134	82.077	160	72.927
5	333.975	31	190.998	57	139.133	83	111.418	109	93.886	135	81.675	161	72.622
6	323.702	32	188.153	58	137.766	84	110.601	110	93.337	136	81.278	162	72.319
7	314.136	33	185.405	59	136.429	85	109.798	111	92.795	137	80.885	163	72.02
8	305.205	34	182.748	60	135.123	86	109.008	112	92.261	138	80.497	164	71.723
9	296.844	35	180.179	61	133.845	87	108.232	113	91.734	139	80.113	165	71.43
10	288.998	36	177.692	62	132.595	88	107.468	114	91.213	140	79.733	166	71.139
11	281.62	37	175.284	63	131.372	89	106.717	115	90.7	141	79.357	167	70.851
12	274.666	38	172.951	64	130.175	90	105.977	116	90.193	142	78.986	168	70.565
13	268.1	39	170.688	65	129.003	91	105.25	117	89.693	143	78.618	169	70.283
14	261.888	40	168.494	66	127.855	92	104.534	118	89.199	144	78.255	170	70.002
15	256.002	41	166.364	67	126.731	93	103.83	119	88.712	145	77.895	171	69.725
16	250.415	42	164.296	68	125.629	94	103.136	120	88.23	146	77.539	172	69.45
17	245.105	43	162.287	69	124.55	95	102.453	121	87.755	147	77.187	173	69.177
18	240.05	44	160.334	70	123.492	96	101.78	122	87.286	148	76.839	174	68.907
19	235.232	45	158.436	71	122.455	97	101.118	123	86.822	149	76.494	175	68.64
20	230.633	46	156.588	72	121.438	98	100.466	124	86.364	150	76.153	176	68.375
21	226.239	47	154.791	73	120.44	99	99.823	125	85.912	151	75.815	177	68.112
22	222.035	48	153.04	74	119.461	100	99.19	126	85.465	152	75.481	178	67.852
23	218.008	49	151.336	75	118.501	101	98.566	127	85.024	153	75.151	179	67.593
24	214.148	50	149.674	76	117.558	102	97.952	128	84.588	154	74.823	180	67.338
25	210.444	51	148.055	77	116.633	103	97.346	129	84.157	155	74.499		
26	206.885	52	146.476	78	115.725	104	96.749	130	83.731	156	74.179		

表 B3.6 凤庆县暴雨强度 $P=30a$ 查用表

凤庆县 $P=30a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	402.167	27	215.969	53	154.262	79	122.318	105	102.446	131	88.750	157	78.670
2	387.862	28	212.514	54	152.670	80	121.386	106	101.827	132	88.306	158	78.334
3	374.685	29	209.185	55	151.116	81	120.471	107	101.218	133	87.868	159	78.002
4	362.504	30	205.974	56	149.597	82	119.571	108	100.616	134	87.434	160	77.673
5	351.204	31	202.875	57	148.114	83	118.687	109	100.023	135	87.006	161	77.347
6	340.690	32	199.883	58	146.665	84	117.818	110	99.438	136	86.582	162	77.024
7	330.880	33	196.991	59	145.248	85	116.964	111	98.861	137	86.163	163	76.705
8	321.702	34	194.195	60	143.863	86	116.124	112	98.292	138	85.749	164	76.389
9	313.094	35	191.489	61	142.507	87	115.298	113	97.730	139	85.339	165	76.075
10	305.002	36	188.869	62	141.181	88	114.485	114	97.175	140	84.934	166	75.765
11	297.381	37	186.330	63	139.884	89	113.685	115	96.628	141	84.534	167	75.457
12	290.187	38	183.870	64	138.614	90	112.899	116	96.088	142	84.137	168	75.152
13	283.386	39	181.484	65	137.370	91	112.125	117	95.555	143	83.745	169	74.851
14	276.943	40	179.168	66	136.152	92	111.363	118	95.028	144	83.357	170	74.552
15	270.831	41	176.920	67	134.958	93	110.613	119	94.509	145	82.974	171	74.255
16	265.023	42	174.737	68	133.789	94	109.874	120	93.996	146	82.594	172	73.962
17	259.497	43	172.615	69	132.643	95	109.147	121	93.489	147	82.219	173	73.671
18	254.231	44	170.552	70	131.520	96	108.431	122	92.989	148	81.847	174	73.383
19	249.206	45	168.545	71	130.418	97	107.726	123	92.495	149	81.479	175	73.097
20	244.407	46	166.593	72	129.337	98	107.032	124	92.006	150	81.115	176	72.814
21	239.817	47	164.692	73	128.278	99	106.347	125	91.524	151	80.755	177	72.534
22	235.422	48	162.840	74	127.238	100	105.673	126	91.048	152	80.399	178	72.256
23	231.210	49	161.037	75	126.217	101	105.009	127	90.577	153	80.046	179	71.980
24	227.169	50	159.279	76	125.215	102	104.354	128	90.112	154	79.697	180	71.707
25	223.288	51	157.565	77	124.232	103	103.709	129	89.653	155	79.351		
26	219.558	52	155.893	78	123.266	104	103.073	130	89.199	156	79.008		

表 B3.7 凤庆县暴雨强度 P=50a 查用表

凤庆县 P=50a t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	423.639	27	230.729	53	165.296	79	131.189	105	109.905	131	95.211	157	84.386
2	409.086	28	227.082	54	163.6	80	130.192	106	109.242	132	94.735	158	84.026
3	395.64	29	223.567	55	161.943	81	129.213	107	108.588	133	94.264	159	83.669
4	383.175	30	220.174	56	160.325	82	128.25	108	107.943	134	93.799	160	83.315
5	371.582	31	216.899	57	158.743	83	127.304	109	107.307	135	93.339	161	82.965
6	360.77	32	213.734	58	157.198	84	126.374	110	106.68	136	92.884	162	82.619
7	350.659	33	210.674	59	155.686	85	125.459	111	106.061	137	92.434	163	82.275
8	341.18	34	207.714	60	154.208	86	124.56	112	105.45	138	91.99	164	81.935
9	332.274	35	204.848	61	152.762	87	123.675	113	104.847	139	91.55	165	81.599
10	323.888	36	202.072	62	151.347	88	122.805	114	104.253	140	91.115	166	81.265
11	315.976	37	199.381	63	149.962	89	121.949	115	103.666	141	90.684	167	80.935
12	308.498	38	196.772	64	148.606	90	121.106	116	103.086	142	90.259	168	80.607
13	301.417	39	194.24	65	147.278	91	120.277	117	102.514	143	89.838	169	80.283
14	294.701	40	191.783	66	145.977	92	119.461	118	101.95	144	89.421	170	79.962
15	288.321	41	189.397	67	144.702	93	118.658	119	101.392	145	89.009	171	79.643
16	282.252	42	187.078	68	143.453	94	117.867	120	100.842	146	88.602	172	79.328
17	276.471	43	184.823	69	142.229	95	117.088	121	100.298	147	88.198	173	79.015
18	270.956	44	182.631	70	141.028	96	116.321	122	99.761	148	87.799	174	78.706
19	265.69	45	180.498	71	139.851	97	115.565	123	99.231	149	87.404	175	78.399
20	260.655	46	178.421	72	138.696	98	114.821	124	98.707	150	87.013	176	78.095
21	255.835	47	176.4	73	137.563	99	114.087	125	98.189	151	86.626	177	77.793
22	251.216	48	174.43	74	136.451	100	113.365	126	97.678	152	86.243	178	77.494
23	246.786	49	172.51	75	135.36	101	112.653	127	97.173	153	85.864	179	77.198
24	242.533	50	170.639	76	134.289	102	111.951	128	96.674	154	85.489	180	76.905
25	238.445	51	168.814	77	133.237	103	111.259	129	96.181	155	85.118		
26	234.513	52	167.034	78	132.204	104	110.577	130	95.693	156	84.75		

表 B3.8 凤庆县暴雨强度 $P=100a$ 查用表

凤庆县 $P=100a$ t : min q : (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	449.744	27	248.909	53	178.951	79	142.187	105	119.158	131	103.228	157	91.478
2	434.904	28	245.033	54	177.127	80	141.11	106	118.44	132	102.712	158	91.087
3	421.147	29	241.292	55	175.345	81	140.051	107	117.732	133	102.201	159	90.699
4	408.352	30	237.681	56	173.604	82	139.011	108	117.033	134	101.696	160	90.315
5	396.418	31	234.192	57	171.902	83	137.988	109	116.344	135	101.197	161	89.935
6	385.259	32	230.818	58	170.239	84	136.982	110	115.664	136	100.703	162	89.559
7	374.798	33	227.555	59	168.612	85	135.993	111	114.993	137	100.215	163	89.186
8	364.968	34	224.395	60	167.02	86	135.021	112	114.331	138	99.732	164	88.817
9	355.713	35	221.336	61	165.462	87	134.064	113	113.678	139	99.255	165	88.451
10	346.982	36	218.37	62	163.938	88	133.123	114	113.033	140	98.783	166	88.089
11	338.729	37	215.495	63	162.445	89	132.197	115	112.397	141	98.316	167	87.73
12	330.914	38	212.705	64	160.984	90	131.285	116	111.769	142	97.854	168	87.374
13	323.503	39	209.997	65	159.552	91	130.388	117	111.149	143	97.397	169	87.022
14	316.463	40	207.367	66	158.149	92	129.505	118	110.537	144	96.945	170	86.673
15	309.766	41	204.812	67	156.775	93	128.636	119	109.932	145	96.498	171	86.327
16	303.388	42	202.328	68	155.427	94	127.78	120	109.335	146	96.055	172	85.984
17	297.303	43	199.913	69	154.107	95	126.937	121	108.746	147	95.617	173	85.645
18	291.493	44	197.563	70	152.811	96	126.106	122	108.163	148	95.184	174	85.308
19	285.938	45	195.275	71	151.541	97	125.288	123	107.588	149	94.755	175	84.975
20	280.621	46	193.048	72	150.294	98	124.482	124	107.02	150	94.331	176	84.645
21	275.526	47	190.878	73	149.071	99	123.688	125	106.459	151	93.911	177	84.317
22	270.64	48	188.764	74	147.871	100	122.906	126	105.904	152	93.495	178	83.993
23	265.948	49	186.703	75	146.692	101	122.135	127	105.356	153	93.083	179	83.671
24	261.44	50	184.693	76	145.535	102	121.375	128	104.815	154	92.676	180	83.352
25	257.104	51	182.732	77	144.399	103	120.625	129	104.28	155	92.273		
26	252.93	52	180.819	78	143.283	104	119.887	130	103.751	156	91.873		

B4 永德县暴雨强度查用表

表 B4.1 永德县暴雨强度 P=2a 查用表

永德县 P=2a t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	303.958	27	147.153	53	96.739	79	71.933	105	57.196	131	47.439	157	40.507
2	292.074	28	144.273	54	95.476	80	71.229	106	56.748	132	47.13	158	40.281
3	281.076	29	141.502	55	94.246	81	70.538	107	56.307	133	46.824	159	40.056
4	270.869	30	138.835	56	93.046	82	69.86	108	55.872	134	46.522	160	39.835
5	261.371	31	136.266	57	91.876	83	69.195	109	55.444	135	46.224	161	39.615
6	252.512	32	133.789	58	90.736	84	68.543	110	55.023	136	45.93	162	39.398
7	244.228	33	131.4	59	89.622	85	67.902	111	54.608	137	45.639	163	39.184
8	236.466	34	129.094	60	88.536	86	67.274	112	54.199	138	45.352	164	38.971
9	229.177	35	126.866	61	87.475	87	66.657	113	53.796	139	45.069	165	38.761
10	222.321	36	124.714	62	86.44	88	66.05	114	53.399	140	44.789	166	38.553
11	215.86	37	122.633	63	85.428	89	65.455	115	53.007	141	44.512	167	38.348
12	209.76	38	120.619	64	84.439	90	64.87	116	52.622	142	44.239	168	38.144
13	203.993	39	118.67	65	83.473	91	64.296	117	52.242	143	43.969	169	37.943
14	198.532	40	116.782	66	82.529	92	63.731	118	51.867	144	43.703	170	37.744
15	193.352	41	114.953	67	81.605	93	63.177	119	51.497	145	43.439	171	37.547
16	188.434	42	113.18	68	80.702	94	62.631	120	51.133	146	43.179	172	37.351
17	183.758	43	111.46	69	79.818	95	62.095	121	50.774	147	42.922	173	37.158
18	179.306	44	109.792	70	78.954	96	61.568	122	50.42	148	42.667	174	36.967
19	175.063	45	108.172	71	78.107	97	61.05	123	50.07	149	42.416	175	36.778
20	171.015	46	106.598	72	77.279	98	60.54	124	49.726	150	42.168	176	36.591
21	167.147	47	105.07	73	76.467	99	60.039	125	49.386	151	41.922	177	36.405
22	163.45	48	103.584	74	75.673	100	59.546	126	49.051	152	41.68	178	36.222
23	159.911	49	102.139	75	74.894	101	59.061	127	48.72	153	41.44	179	36.04
24	156.52	50	100.734	76	74.132	102	58.583	128	48.393	154	41.203	180	35.86
25	153.269	51	99.367	77	73.384	103	58.114	129	48.071	155	40.968		
26	150.149	52	98.035	78	72.652	104	57.651	130	47.753	156	40.737		

表 B4.2 永德县暴雨强度 $P=3a$ 查用表

永德县 $P=3a$ t : min q : (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	339.767	27	161.772	53	106.259	79	79.147	105	63.075	131	52.437	157	44.875
2	325.946	28	158.582	54	104.877	80	78.379	106	62.586	132	52.099	158	44.628
3	313.208	29	155.516	55	103.529	81	77.625	107	62.105	133	51.766	159	44.383
4	301.43	30	152.566	56	102.217	82	76.886	108	61.632	134	51.437	160	44.141
5	290.508	31	149.727	57	100.937	83	76.16	109	61.165	135	51.112	161	43.902
6	280.352	32	146.991	58	99.688	84	75.448	110	60.706	136	50.791	162	43.665
7	270.883	33	144.354	59	98.471	85	74.75	111	60.253	137	50.474	163	43.431
8	262.035	34	141.81	60	97.283	86	74.064	112	59.807	138	50.161	164	43.199
9	253.747	35	139.355	61	96.123	87	73.391	113	59.368	139	49.852	165	42.97
10	245.969	36	136.983	62	94.99	88	72.73	114	58.935	140	49.546	166	42.743
11	238.655	37	134.691	63	93.884	89	72.08	115	58.508	141	49.245	167	42.518
12	231.764	38	132.474	64	92.804	90	71.443	116	58.088	142	48.947	168	42.296
13	225.261	39	130.329	65	91.748	91	70.816	117	57.673	143	48.653	169	42.076
14	219.114	40	128.253	66	90.716	92	70.201	118	57.265	144	48.362	170	41.859
15	213.294	41	126.242	67	89.707	93	69.596	119	56.862	145	48.074	171	41.644
16	207.776	42	124.294	68	88.721	94	69.001	120	56.465	146	47.79	172	41.43
17	202.537	43	122.404	69	87.755	95	68.417	121	56.073	147	47.51	173	41.22
18	197.556	44	120.572	70	86.811	96	67.842	122	55.687	148	47.232	174	41.011
19	192.815	45	118.793	71	85.887	97	67.277	123	55.306	149	46.958	175	40.804
20	188.296	46	117.067	72	84.982	98	66.721	124	54.93	150	46.687	176	40.6
21	183.985	47	115.39	73	84.096	99	66.175	125	54.56	151	46.42	177	40.397
22	179.868	48	113.76	74	83.229	100	65.637	126	54.194	152	46.155	178	40.197
23	175.931	49	112.176	75	82.379	101	65.108	127	53.833	153	45.893	179	39.998
24	172.163	50	110.636	76	81.547	102	64.587	128	53.477	154	45.634	180	39.801
25	168.554	51	109.138	77	80.731	103	64.075	129	53.126	155	45.379		
26	165.093	52	107.679	78	79.931	104	63.571	130	52.779	156	45.126		

表 B4.3 永德县暴雨强度 P=5a 查用表

永德县 P=5a t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	387.391	27	180.239	53	118.195	79	88.187	105	70.451	131	58.72	157	50.377
2	370.778	28	176.647	54	116.66	80	87.338	106	69.912	132	58.347	158	50.104
3	355.551	29	173.198	55	115.166	81	86.505	107	69.381	133	57.979	159	49.834
4	341.544	30	169.883	56	113.71	82	85.689	108	68.859	134	57.616	160	49.567
5	328.615	31	166.694	57	112.291	83	84.888	109	68.345	135	57.258	161	49.303
6	316.644	32	163.625	58	110.908	84	84.102	110	67.838	136	56.904	162	49.041
7	305.527	33	160.668	59	109.559	85	83.331	111	67.339	137	56.554	163	48.783
8	295.176	34	157.818	60	108.242	86	82.574	112	66.847	138	56.209	164	48.527
9	285.514	35	155.069	61	106.958	87	81.831	113	66.363	139	55.868	165	48.274
10	276.474	36	152.416	62	105.704	88	81.102	114	65.885	140	55.531	166	48.023
11	267.997	37	149.853	63	104.48	89	80.385	115	65.415	141	55.198	167	47.775
12	260.032	38	147.377	64	103.284	90	79.682	116	64.951	142	54.87	168	47.53
13	252.535	39	144.982	65	102.115	91	78.99	117	64.494	143	54.545	169	47.287
14	245.464	40	142.665	66	100.974	92	78.311	118	64.044	144	54.224	170	47.047
15	238.784	41	140.422	67	99.858	93	77.644	119	63.6	145	53.907	171	46.81
16	232.464	42	138.25	68	98.766	94	76.988	120	63.162	146	53.594	172	46.574
17	226.475	43	136.144	69	97.699	95	76.343	121	62.73	147	53.284	173	46.341
18	220.791	44	134.103	70	96.655	96	75.709	122	62.304	148	52.978	174	46.111
19	215.39	45	132.124	71	95.633	97	75.085	123	61.884	149	52.676	175	45.883
20	210.251	46	130.203	72	94.633	98	74.472	124	61.469	150	52.377	176	45.657
21	205.355	47	128.337	73	93.654	99	73.87	125	61.061	151	52.082	177	45.433
22	200.686	48	126.526	74	92.695	100	73.277	126	60.657	152	51.789	178	45.211
23	196.228	49	124.765	75	91.756	101	72.693	127	60.26	153	51.501	179	44.992
24	191.966	50	123.054	76	90.837	102	72.119	128	59.867	154	51.215	180	44.775
25	187.888	51	121.39	77	89.936	103	71.554	129	59.479	155	50.933		
26	183.983	52	119.771	78	89.052	104	70.998	130	59.097	156	50.653		

表 B4.4 永德县暴雨强度 $P=10a$ 查用表

永德县 $P=10a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	453.324	27	205.764	53	134.812	79	100.825	105	80.789	131	67.54	157	58.111
2	432.739	28	201.625	54	133.071	80	99.865	106	80.18	132	67.119	158	57.802
3	413.996	29	197.654	55	131.375	81	98.924	107	79.581	133	66.703	159	57.496
4	396.855	30	193.841	56	129.723	82	98.002	108	78.991	134	66.293	160	57.194
5	381.117	31	190.177	57	128.113	83	97.097	109	78.411	135	65.888	161	56.895
6	366.616	32	186.654	58	126.545	84	96.209	110	77.838	136	65.488	162	56.6
7	353.211	33	183.262	59	125.015	85	95.338	111	77.275	137	65.093	163	56.307
8	340.779	34	179.996	60	123.523	86	94.482	112	76.719	138	64.703	164	56.018
9	329.218	35	176.847	61	122.067	87	93.643	113	76.172	139	64.318	165	55.731
10	318.439	36	173.81	62	120.646	88	92.819	114	75.633	140	63.937	166	55.448
11	308.364	37	170.879	63	119.26	89	92.009	115	75.102	141	63.561	167	55.167
12	298.926	38	168.048	64	117.905	90	91.214	116	74.578	142	63.19	168	54.89
13	290.066	39	165.312	65	116.582	91	90.433	117	74.062	143	62.823	169	54.615
14	281.731	40	162.667	66	115.289	92	89.666	118	73.553	144	62.46	170	54.344
15	273.876	41	160.107	67	114.026	93	88.912	119	73.052	145	62.102	171	54.075
16	266.46	42	157.63	68	112.79	94	88.171	120	72.557	146	61.748	172	53.808
17	259.448	43	155.23	69	111.583	95	87.443	121	72.069	147	61.398	173	53.545
18	252.806	44	152.904	70	110.401	96	86.727	122	71.588	148	61.052	174	53.284
19	246.506	45	150.65	71	109.245	97	86.023	123	71.114	149	60.71	175	53.025
20	240.521	46	148.463	72	108.114	98	85.331	124	70.646	150	60.372	176	52.77
21	234.829	47	146.34	73	107.007	99	84.65	125	70.184	151	60.038	177	52.516
22	229.409	48	144.279	74	105.922	100	83.98	126	69.729	152	59.707	178	52.266
23	224.24	49	142.278	75	104.861	101	83.321	127	69.279	153	59.381	179	52.017
24	219.307	50	140.332	76	103.821	102	82.673	128	68.836	154	59.058	180	51.772
25	214.592	51	138.441	77	102.802	103	82.035	129	68.398	155	58.739		
26	210.082	52	136.602	78	101.803	104	81.407	130	67.966	156	58.423		

表 B4.5 永德县暴雨强度 $P=20a$ 查用表

永德县 $P=20a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	527.46	27	234.732	53	153.634	79	115.066	105	92.376	131	77.378	157	66.7
2	502.429	28	229.974	54	151.654	80	113.979	106	91.688	132	76.901	158	66.35
3	479.755	29	225.413	55	149.727	81	112.913	107	91.009	133	76.431	159	66.004
4	459.117	30	221.037	56	147.85	82	111.868	108	90.342	134	75.966	160	65.661
5	440.249	31	216.834	57	146.021	83	110.842	109	89.684	135	75.508	161	65.323
6	422.93	32	212.795	58	144.239	84	109.836	110	89.036	136	75.055	162	64.988
7	406.975	33	208.909	59	142.502	85	108.85	111	88.398	137	74.608	163	64.656
8	392.226	34	205.169	60	140.808	86	107.881	112	87.77	138	74.166	164	64.328
9	378.551	35	201.566	61	139.155	87	106.93	113	87.15	139	73.729	165	64.004
10	365.834	36	198.093	62	137.543	88	105.997	114	86.54	140	73.299	166	63.683
11	353.977	37	194.742	63	135.968	89	105.08	115	85.939	141	72.873	167	63.365
12	342.895	38	191.507	64	134.431	90	104.18	116	85.346	142	72.452	168	63.051
13	332.514	39	188.382	65	132.93	91	103.296	117	84.762	143	72.037	169	62.739
14	322.767	40	185.362	66	131.464	92	102.427	118	84.186	144	71.626	170	62.431
15	313.598	41	182.441	67	130.03	93	101.573	119	83.618	145	71.22	171	62.126
16	304.957	42	179.615	68	128.629	94	100.734	120	83.058	146	70.819	172	61.825
17	296.798	43	176.879	69	127.26	95	99.91	121	82.506	147	70.423	173	61.526
18	289.082	44	174.228	70	125.92	96	99.099	122	81.961	148	70.031	174	61.23
19	281.772	45	171.658	71	124.609	97	98.302	123	81.424	149	69.644	175	60.937
20	274.839	46	169.167	72	123.327	98	97.518	124	80.894	150	69.261	176	60.647
21	268.252	47	166.75	73	122.071	99	96.747	125	80.372	151	68.883	177	60.36
22	261.986	48	164.404	74	120.842	100	95.989	126	79.856	152	68.508	178	60.076
23	256.018	49	162.125	75	119.639	101	95.243	127	79.347	153	68.139	179	59.795
24	250.327	50	159.912	76	118.46	102	94.509	128	78.845	154	67.773	180	59.516
25	244.893	51	157.761	77	117.306	103	93.787	129	78.35	155	67.411		
26	239.7	52	155.669	78	116.174	104	93.076	130	77.86	156	67.053		

表 B4.6 永德县暴雨强度 $P=30a$ 查用表

永德县 $P=30a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	564.082	27	248.993	53	162.928	79	122.112	105	98.119	131	82.259	157	70.966
2	536.817	28	243.932	54	160.831	80	120.963	106	97.391	132	81.756	158	70.596
3	512.176	29	239.082	55	158.790	81	119.835	107	96.674	133	81.258	159	70.230
4	489.792	30	234.430	56	156.803	82	118.730	108	95.968	134	80.767	160	69.867
5	469.366	31	229.963	57	154.867	83	117.646	109	95.272	135	80.282	161	69.509
6	450.648	32	225.672	58	152.980	84	116.582	110	94.588	136	79.803	162	69.155
7	433.429	33	221.544	59	151.141	85	115.538	111	93.913	137	79.330	163	68.804
8	417.533	34	217.573	60	149.348	86	114.514	112	93.248	138	78.863	164	68.457
9	402.813	35	213.747	61	147.599	87	113.509	113	92.594	139	78.401	165	68.114
10	389.140	36	210.060	62	145.892	88	112.521	114	91.948	140	77.945	166	67.774
11	376.406	37	206.503	63	144.226	89	111.552	115	91.312	141	77.495	167	67.438
12	364.515	38	203.071	64	142.600	90	110.600	116	90.686	142	77.050	168	67.105
13	353.385	39	199.756	65	141.011	91	109.665	117	90.068	143	76.611	169	66.776
14	342.944	40	196.553	66	139.459	92	108.746	118	89.459	144	76.176	170	66.450
15	333.130	41	193.455	67	137.943	93	107.844	119	88.858	145	75.747	171	66.128
16	323.886	42	190.458	68	136.461	94	106.957	120	88.266	146	75.323	172	65.808
17	315.165	43	187.557	69	135.011	95	106.085	121	87.682	147	74.904	173	65.492
18	306.922	44	184.747	70	133.594	96	105.228	122	87.106	148	74.490	174	65.179
19	299.118	45	182.023	71	132.207	97	104.385	123	86.538	149	74.080	175	64.870
20	291.719	46	179.383	72	130.851	98	103.556	124	85.978	150	73.675	176	64.563
21	284.693	47	176.821	73	129.523	99	102.741	125	85.426	151	73.275	177	64.259
22	278.013	48	174.335	74	128.223	100	101.939	126	84.880	152	72.879	178	63.958
23	271.654	49	171.921	75	126.950	101	101.150	127	84.342	153	72.488	179	63.661
24	265.592	50	169.577	76	125.703	102	100.374	128	83.811	154	72.101	180	63.366
25	259.806	51	167.298	77	124.482	103	99.611	129	83.287	155	71.718		
26	254.279	52	165.083	78	123.285	104	98.859	130	82.770	156	71.340		

表 B4.7 永德县暴雨强度 $P=50a$ 查用表

永德县 $P=50a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	610.911	27	267.42	53	175.032	79	131.337	105	105.664	131	88.69	157	76.598
2	580.792	28	261.975	54	172.786	80	130.107	106	104.884	132	88.151	158	76.201
3	553.641	29	256.758	55	170.6	81	128.9	107	104.117	133	87.618	159	75.809
4	529.035	30	251.755	56	168.472	82	127.718	108	103.361	134	87.092	160	75.421
5	506.627	31	246.954	57	166.398	83	126.557	109	102.617	135	86.573	161	75.038
6	486.13	32	242.342	58	164.378	84	125.419	110	101.884	136	86.06	162	74.658
7	467.307	33	237.907	59	162.409	85	124.302	111	101.163	137	85.554	163	74.282
8	449.958	34	233.641	60	160.489	86	123.206	112	100.451	138	85.054	164	73.911
9	433.913	35	229.532	61	158.616	87	122.131	113	99.751	139	84.56	165	73.543
10	419.029	36	225.573	62	156.789	88	121.074	114	99.06	140	84.072	166	73.179
11	405.181	37	221.756	63	155.005	89	120.037	115	98.379	141	83.59	167	72.819
12	392.265	38	218.072	64	153.264	90	119.019	116	97.709	142	83.113	168	72.463
13	380.187	39	214.514	65	151.564	91	118.018	117	97.047	143	82.643	169	72.11
14	368.868	40	211.077	66	149.902	92	117.035	118	96.396	144	82.178	170	71.761
15	358.236	41	207.754	67	148.279	93	116.069	119	95.753	145	81.718	171	71.415
16	348.231	42	204.54	68	146.692	94	115.12	120	95.119	146	81.264	172	71.073
17	338.797	43	201.428	69	145.141	95	114.187	121	94.494	147	80.815	173	70.734
18	329.886	44	198.415	70	143.624	96	113.27	122	93.878	148	80.371	174	70.399
19	321.456	45	195.495	71	142.14	97	112.368	123	93.27	149	79.933	175	70.067
20	313.467	46	192.665	72	140.688	98	111.481	124	92.671	150	79.499	176	69.738
21	305.886	47	189.919	73	139.267	99	110.609	125	92.079	151	79.071	177	69.413
22	298.681	48	187.255	74	137.876	100	109.751	126	91.495	152	78.647	178	69.091
23	291.825	49	184.668	75	136.514	101	108.907	127	90.919	153	78.228	179	68.772
24	285.293	50	182.156	76	135.179	102	108.077	128	90.351	154	77.813	180	68.456
25	279.061	51	179.714	77	133.872	103	107.26	129	89.79	155	77.404		
26	273.11	52	177.34	78	132.592	104	106.455	130	89.236	156	76.998		

表 B4.8 永德县暴雨强度 $P=100a$ 查用表

永德县 $P=100a$ t : min q : (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	674.854	27	292.097	53	191.213	79	143.671	105	115.757	131	97.3	157	84.144
2	640.701	28	286.133	54	188.768	80	142.333	106	114.91	132	96.713	158	83.712
3	610.021	29	280.421	55	186.387	81	141.021	107	114.076	133	96.134	159	83.286
4	582.301	30	274.947	56	184.07	82	139.735	108	113.254	134	95.562	160	82.864
5	557.126	31	269.694	57	181.813	83	138.474	109	112.445	135	94.997	161	82.446
6	534.156	32	264.65	58	179.614	84	137.236	110	111.648	136	94.439	162	82.033
7	513.108	33	259.802	59	177.471	85	136.022	111	110.864	137	93.889	163	81.624
8	493.746	34	255.139	60	175.381	86	134.83	112	110.09	138	93.345	164	81.219
9	475.873	35	250.65	61	173.343	87	133.661	113	109.328	139	92.807	165	80.819
10	459.32	36	246.326	62	171.355	88	132.512	114	108.577	140	92.276	166	80.423
11	443.944	37	242.157	63	169.414	89	131.385	115	107.837	141	91.752	167	80.031
12	429.621	38	238.135	64	167.52	90	130.277	116	107.108	142	91.234	168	79.643
13	416.246	39	234.252	65	165.67	91	129.189	117	106.389	143	90.722	169	79.259
14	403.725	40	230.502	66	163.863	92	128.121	118	105.68	144	90.216	170	78.879
15	391.977	41	226.876	67	162.097	93	127.071	119	104.981	145	89.716	171	78.503
16	380.932	42	223.37	68	160.371	94	126.039	120	104.292	146	89.222	172	78.13
17	370.528	43	219.977	69	158.683	95	125.024	121	103.613	147	88.733	173	77.762
18	360.71	44	216.691	70	157.033	96	124.027	122	102.942	148	88.25	174	77.396
19	351.428	45	213.508	71	155.419	97	123.047	123	102.281	149	87.773	175	77.035
20	342.639	46	210.423	72	153.84	98	122.082	124	101.629	150	87.301	176	76.677
21	334.304	47	207.43	73	152.294	99	121.134	125	100.986	151	86.835	177	76.323
22	326.388	48	204.527	74	150.781	100	120.202	126	100.351	152	86.374	178	75.972
23	318.86	49	201.709	75	149.3	101	119.284	127	99.725	153	85.918	179	75.624
24	311.691	50	198.972	76	147.849	102	118.381	128	99.107	154	85.467	180	75.28
25	304.856	51	196.312	77	146.428	103	117.493	129	98.496	155	85.021		
26	298.332	52	193.727	78	145.035	104	116.618	130	97.894	156	84.58		

B5 镇康县暴雨强度查用表

表 B5.1 镇康县暴雨强度 P=2a 查用表

镇康县 P=2a t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	380.73	27	199.735	53	134.035	79	100.342	105	79.932	131	66.28	157	56.524
2	368.161	28	196.084	54	132.341	80	99.372	106	79.307	132	65.845	158	56.204
3	356.373	29	192.56	55	130.688	81	98.421	107	78.692	133	65.415	159	55.888
4	345.295	30	189.156	56	129.075	82	97.487	108	78.086	134	64.991	160	55.575
5	334.866	31	185.868	57	127.499	83	96.571	109	77.489	135	64.572	161	55.266
6	325.031	32	182.689	58	125.961	84	95.671	110	76.9	136	64.159	162	54.959
7	315.74	33	179.613	59	124.458	85	94.787	111	76.32	137	63.75	163	54.657
8	306.952	34	176.636	60	122.989	86	93.918	112	75.749	138	63.347	164	54.357
9	298.625	35	173.754	61	121.554	87	93.065	113	75.186	139	62.948	165	54.06
10	290.726	36	170.961	62	120.151	88	92.227	114	74.631	140	62.554	166	53.767
11	283.222	37	168.254	63	118.779	89	91.404	115	74.084	141	62.165	167	53.477
12	276.084	38	165.629	64	117.437	90	90.594	116	73.544	142	61.781	168	53.189
13	269.288	39	163.082	65	116.124	91	89.799	117	73.012	143	61.401	169	52.905
14	262.808	40	160.61	66	114.839	92	89.016	118	72.488	144	61.026	170	52.624
15	256.624	41	158.21	67	113.582	93	88.247	119	71.971	145	60.655	171	52.345
16	250.716	42	155.878	68	112.351	94	87.491	120	71.461	146	60.289	172	52.07
17	245.067	43	153.612	69	111.145	95	86.747	121	70.957	147	59.927	173	51.797
18	239.658	44	151.409	70	109.965	96	86.015	122	70.461	148	59.569	174	51.527
19	234.477	45	149.266	71	108.808	97	85.295	123	69.972	149	59.215	175	51.26
20	229.509	46	147.182	72	107.675	98	84.587	124	69.488	150	58.865	176	50.995
21	224.74	47	145.153	73	106.564	99	83.89	125	69.012	151	58.519	177	50.733
22	220.16	48	143.178	74	105.476	100	83.204	126	68.541	152	58.177	178	50.473
23	215.758	49	141.254	75	104.409	101	82.529	127	68.077	153	57.839	179	50.216
24	211.523	50	139.38	76	103.362	102	81.865	128	67.619	154	57.505	180	49.962
25	207.447	51	137.553	77	102.336	103	81.211	129	67.167	155	57.174		
26	203.52	52	135.772	78	101.329	104	80.566	130	66.721	156	56.847		

表 B5.2 镇康县暴雨强度 $P=3a$ 查用表

镇康县 $P=3a$ t : min q : (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	418.536	27	223.548	53	150.536	79	112.701	105	89.683	131	74.257	157	63.226
2	405.3	28	219.52	54	148.639	80	111.609	106	88.977	132	73.765	158	62.865
3	392.844	29	215.629	55	146.788	81	110.538	107	88.282	133	73.28	159	62.507
4	381.102	30	211.868	56	144.981	82	109.486	108	87.598	134	72.8	160	62.153
5	370.015	31	208.23	57	143.215	83	108.453	109	86.923	135	72.327	161	61.804
6	359.531	32	204.711	58	141.491	84	107.438	110	86.258	136	71.859	162	61.457
7	349.602	33	201.304	59	139.805	85	106.442	111	85.604	137	71.397	163	61.115
8	340.186	34	198.004	60	138.158	86	105.463	112	84.958	138	70.941	164	60.776
9	331.245	35	194.807	61	136.548	87	104.502	113	84.322	139	70.49	165	60.441
10	322.744	36	191.707	62	134.973	88	103.557	114	83.695	140	70.045	166	60.109
11	314.652	37	188.7	63	133.433	89	102.628	115	83.077	141	69.605	167	59.781
12	306.941	38	185.782	64	131.926	90	101.715	116	82.467	142	69.171	168	59.456
13	299.584	39	182.95	65	130.452	91	100.818	117	81.866	143	68.741	169	59.135
14	292.558	40	180.2	66	129.009	92	99.936	118	81.274	144	68.317	170	58.817
15	285.841	41	177.527	67	127.596	93	99.068	119	80.689	145	67.898	171	58.502
16	279.414	42	174.93	68	126.212	94	98.215	120	80.113	146	67.484	172	58.19
17	273.259	43	172.405	69	124.857	95	97.375	121	79.544	147	67.074	173	57.882
18	267.358	44	169.948	70	123.53	96	96.55	122	78.983	148	66.669	174	57.576
19	261.698	45	167.558	71	122.229	97	95.737	123	78.43	149	66.269	175	57.274
20	256.262	46	165.232	72	120.955	98	94.938	124	77.884	150	65.873	176	56.975
21	251.04	47	162.967	73	119.705	99	94.151	125	77.345	151	65.482	177	56.679
22	246.017	48	160.76	74	118.481	100	93.377	126	76.813	152	65.096	178	56.385
23	241.184	49	158.61	75	117.28	101	92.615	127	76.289	153	64.713	179	56.095
24	236.53	50	156.515	76	116.102	102	91.865	128	75.771	154	64.335	180	55.807
25	232.045	51	154.472	77	114.946	103	91.126	129	75.26	155	63.962		
26	227.721	52	152.48	78	113.813	104	90.399	130	74.755	156	63.592		

表 B5.3 镇康县暴雨强度 P=5a 查用表

镇康县 P=5a t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	452.083	27	245.529	53	165.866	79	124.163	105	98.684	131	81.579	157	69.341
2	438.358	28	241.165	54	163.782	80	122.956	106	97.902	132	81.034	158	68.94
3	425.403	29	236.946	55	161.746	81	121.771	107	97.132	133	80.495	159	68.543
4	413.156	30	232.864	56	159.758	82	120.608	108	96.373	134	79.963	160	68.15
5	401.56	31	228.914	57	157.817	83	119.466	109	95.625	135	79.438	161	67.762
6	390.567	32	225.089	58	155.919	84	118.344	110	94.889	136	78.919	162	67.378
7	380.13	33	221.383	59	154.064	85	117.242	111	94.163	137	78.406	163	66.998
8	370.211	34	217.791	60	152.251	86	116.159	112	93.447	138	77.9	164	66.622
9	360.771	35	214.309	61	150.477	87	115.095	113	92.742	139	77.4	165	66.25
10	351.778	36	210.93	62	148.743	88	114.049	114	92.046	140	76.906	166	65.882
11	343.2	37	207.651	63	147.046	89	113.022	115	91.361	141	76.418	167	65.518
12	335.011	38	204.468	64	145.385	90	112.011	116	90.685	142	75.936	168	65.158
13	327.184	39	201.376	65	143.759	91	111.018	117	90.019	143	75.46	169	64.801
14	319.698	40	198.371	66	142.168	92	110.041	118	89.362	144	74.989	170	64.448
15	312.529	41	195.45	67	140.61	93	109.08	119	88.713	145	74.524	171	64.099
16	305.66	42	192.61	68	139.084	94	108.136	120	88.074	146	74.064	172	63.753
17	299.071	43	189.847	69	137.589	95	107.206	121	87.443	147	73.61	173	63.411
18	292.747	44	187.158	70	136.124	96	106.292	122	86.821	148	73.161	174	63.072
19	286.672	45	184.541	71	134.688	97	105.392	123	86.208	149	72.717	175	62.737
20	280.831	46	181.992	72	133.281	98	104.507	124	85.602	150	72.278	176	62.405
21	275.213	47	179.509	73	131.902	99	103.635	125	85.004	151	71.844	177	62.076
22	269.803	48	177.09	74	130.549	100	102.778	126	84.415	152	71.415	178	61.751
23	264.592	49	174.731	75	129.222	101	101.933	127	83.833	153	70.991	179	61.429
24	259.568	50	172.432	76	127.921	102	101.102	128	83.258	154	70.571	180	61.11
25	254.723	51	170.189	77	126.645	103	100.284	129	82.691	155	70.156		
26	250.046	52	168.001	78	125.392	104	99.478	130	82.132	156	69.746		

表 B5.4 镇康县暴雨强度 $P=10a$ 查用表

镇康县 $P=10a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	460.271	27	256.279	53	174.047	79	130.303	105	103.392	131	85.27	157	72.289
2	447.137	28	251.823	54	171.871	80	129.032	106	102.564	132	84.691	158	71.864
3	434.684	29	247.51	55	169.745	81	127.783	107	101.749	133	84.12	159	71.443
4	422.863	30	243.332	56	167.668	82	126.556	108	100.945	134	83.556	160	71.027
5	411.628	31	239.284	57	165.638	83	125.352	109	100.154	135	82.999	161	70.615
6	400.936	32	235.359	58	163.653	84	124.168	110	99.374	136	82.449	162	70.207
7	390.751	33	231.553	59	161.711	85	123.005	111	98.605	137	81.905	163	69.804
8	381.038	34	227.86	60	159.813	86	121.863	112	97.847	138	81.369	164	69.406
9	371.766	35	224.276	61	157.955	87	120.739	113	97.1	139	80.838	165	69.011
10	362.905	36	220.795	62	156.138	88	119.636	114	96.364	140	80.315	166	68.621
11	354.43	37	217.413	63	154.359	89	118.55	115	95.637	141	79.797	167	68.234
12	346.317	38	214.127	64	152.617	90	117.483	116	94.921	142	79.286	168	67.852
13	338.544	39	210.932	65	150.912	91	116.434	117	94.215	143	78.78	169	67.474
14	331.089	40	207.825	66	149.242	92	115.402	118	93.519	144	78.281	170	67.1
15	323.935	41	204.802	67	147.606	93	114.387	119	92.832	145	77.788	171	66.729
16	317.064	42	201.86	68	146.003	94	113.389	120	92.155	146	77.3	172	66.362
17	310.459	43	198.996	69	144.432	95	112.406	121	91.486	147	76.818	173	65.999
18	304.107	44	196.207	70	142.892	96	111.44	122	90.827	148	76.341	174	65.64
19	297.993	45	193.489	71	141.383	97	110.488	123	90.177	149	75.87	175	65.285
20	292.103	46	190.842	72	139.903	98	109.552	124	89.535	150	75.405	176	64.932
21	286.428	47	188.26	73	138.452	99	108.631	125	88.901	151	74.945	177	64.584
22	280.954	48	185.744	74	137.029	100	107.723	126	88.276	152	74.489	178	64.239
23	275.672	49	183.289	75	135.633	101	106.83	127	87.659	153	74.04	179	63.897
24	270.573	50	180.894	76	134.263	102	105.951	128	87.05	154	73.595	180	63.559
25	265.646	51	178.556	77	132.918	103	105.085	129	86.449	155	73.155		
26	260.884	52	176.275	78	131.599	104	104.232	130	85.856	156	72.72		

表 B5.5 镇康县暴雨强度 $P=20a$ 查用表

镇康县 $P=20a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	487.188	27	278.622	53	190.27	79	142.385	105	112.687	131	92.62	157	78.232
2	474.219	28	273.895	54	187.902	80	140.985	106	111.771	132	91.979	158	77.761
3	461.866	29	269.313	55	185.586	81	139.61	107	110.869	133	91.346	159	77.294
4	450.087	30	264.868	56	183.322	82	138.26	108	109.98	134	90.721	160	76.833
5	438.844	31	260.555	57	181.108	83	136.932	109	109.105	135	90.104	161	76.376
6	428.102	32	256.369	58	178.942	84	135.628	110	108.241	136	89.494	162	75.925
7	417.831	33	252.303	59	176.823	85	134.347	111	107.39	137	88.892	163	75.478
8	407.999	34	248.353	60	174.749	86	133.087	112	106.551	138	88.297	164	75.036
9	398.582	35	244.515	61	172.719	87	131.848	113	105.725	139	87.709	165	74.599
10	389.553	36	240.784	62	170.732	88	130.631	114	104.909	140	87.128	166	74.166
11	380.889	37	237.154	63	168.786	89	129.434	115	104.105	141	86.555	167	73.738
12	372.571	38	233.624	64	166.88	90	128.256	116	103.312	142	85.988	168	73.315
13	364.578	39	230.188	65	165.012	91	127.098	117	102.531	143	85.428	169	72.895
14	356.892	40	226.843	66	163.183	92	125.959	118	101.759	144	84.874	170	72.481
15	349.496	41	223.585	67	161.39	93	124.839	119	100.999	145	84.327	171	72.07
16	342.375	42	220.412	68	159.633	94	123.736	120	100.248	146	83.786	172	71.664
17	335.514	43	217.32	69	157.91	95	122.651	121	99.508	147	83.252	173	71.261
18	328.899	44	214.306	70	156.221	96	121.583	122	98.778	148	82.724	174	70.863
19	322.519	45	211.367	71	154.565	97	120.532	123	98.057	149	82.202	175	70.469
20	316.36	46	208.501	72	152.94	98	119.498	124	97.346	150	81.686	176	70.079
21	310.412	47	205.705	73	151.346	99	118.479	125	96.644	151	81.176	177	69.693
22	304.665	48	202.977	74	149.782	100	117.477	126	95.952	152	80.671	178	69.311
23	299.109	49	200.314	75	148.247	101	116.489	127	95.268	153	80.172	179	68.932
24	293.735	50	197.714	76	146.741	102	115.517	128	94.593	154	79.679	180	68.558
25	288.535	51	195.174	77	145.262	103	114.559	129	93.927	155	79.192		
26	283.499	52	192.694	78	143.811	104	113.616	130	93.27	156	78.709		

表 B5.6 镇康县暴雨强度 $P=30a$ 查用表

镇康县 $P=30a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	514.631	27	297.194	53	203.473	79	152.318	105	120.486	131	98.944	157	83.487
2	501.270	28	292.204	54	200.948	80	150.819	106	119.504	132	98.255	158	82.980
3	488.523	29	287.363	55	198.480	81	149.347	107	118.536	133	97.575	159	82.479
4	476.351	30	282.665	56	196.065	82	147.900	108	117.582	134	96.904	160	81.983
5	464.717	31	278.104	57	193.703	83	146.479	109	116.642	135	96.241	161	81.493
6	453.587	32	273.675	58	191.393	84	145.082	110	115.716	136	95.586	162	81.008
7	442.930	33	269.372	59	189.131	85	143.709	111	114.802	137	94.939	163	80.528
8	432.717	34	265.189	60	186.918	86	142.359	112	113.902	138	94.300	164	80.053
9	422.923	35	261.123	61	184.750	87	141.032	113	113.014	139	93.668	165	79.583
10	413.522	36	257.168	62	182.628	88	139.728	114	112.139	140	93.044	166	79.118
11	404.493	37	253.320	63	180.550	89	138.445	115	111.276	141	92.428	167	78.658
12	395.814	38	249.575	64	178.514	90	137.183	116	110.425	142	91.819	168	78.203
13	387.467	39	245.929	65	176.519	91	135.942	117	109.586	143	91.218	169	77.753
14	379.432	40	242.379	66	174.564	92	134.721	118	108.758	144	90.623	170	77.307
15	371.694	41	238.920	67	172.648	93	133.519	119	107.941	145	90.035	171	76.866
16	364.237	42	235.549	68	170.770	94	132.337	120	107.136	146	89.454	172	76.429
17	357.046	43	232.263	69	168.928	95	131.174	121	106.341	147	88.880	173	75.997
18	350.108	44	229.059	70	167.122	96	130.029	122	105.557	148	88.313	174	75.569
19	343.410	45	225.935	71	165.350	97	128.902	123	104.783	149	87.752	175	75.146
20	336.940	46	222.886	72	163.613	98	127.792	124	104.019	150	87.198	176	74.727
21	330.688	47	219.911	73	161.908	99	126.700	125	103.266	151	86.649	177	74.312
22	324.642	48	217.008	74	160.235	100	125.625	126	102.522	152	86.107	178	73.901
23	318.794	49	214.172	75	158.592	101	124.565	127	101.788	153	85.572	179	73.494
24	313.133	50	211.404	76	156.981	102	123.522	128	101.063	154	85.042	180	73.092
25	307.651	51	208.699	77	155.398	103	122.495	129	100.348	155	84.518		
26	302.341	52	206.056	78	153.844	104	121.483	130	99.641	156	84.000		

表 B5.7 镇康县暴雨强度 $P=50a$ 查用表

镇康县 $P=50a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	541.581	27	315.824	53	216.787	79	162.334	105	128.334	131	105.286	157	88.738
2	527.874	28	310.575	54	214.105	80	160.735	106	127.283	132	104.549	158	88.195
3	514.777	29	305.482	55	211.483	81	159.164	107	126.248	133	103.822	159	87.659
4	502.252	30	300.536	56	208.917	82	157.62	108	125.228	134	103.103	160	87.128
5	490.264	31	295.732	57	206.407	83	156.103	109	124.223	135	102.393	161	86.602
6	478.779	32	291.065	58	203.951	84	154.612	110	123.232	136	101.692	162	86.083
7	467.769	33	286.528	59	201.546	85	153.146	111	122.255	137	100.999	163	85.569
8	457.205	34	282.116	60	199.192	86	151.706	112	121.292	138	100.315	164	85.061
9	447.062	35	277.825	61	196.887	87	150.289	113	120.343	139	99.639	165	84.557
10	437.315	36	273.649	62	194.629	88	148.896	114	119.407	140	98.971	166	84.06
11	427.944	37	269.585	63	192.417	89	147.525	115	118.483	141	98.311	167	83.567
12	418.927	38	265.628	64	190.25	90	146.178	116	117.573	142	97.659	168	83.08
13	410.245	39	261.774	65	188.127	91	144.852	117	116.675	143	97.015	169	82.597
14	401.881	40	258.019	66	186.045	92	143.547	118	115.789	144	96.379	170	82.12
15	393.818	41	254.36	67	184.005	93	142.264	119	114.915	145	95.749	171	81.648
16	386.041	42	250.793	68	182.004	94	141.001	120	114.053	146	95.127	172	81.18
17	378.536	43	247.314	69	180.042	95	139.758	121	113.203	147	94.513	173	80.718
18	371.288	44	243.922	70	178.118	96	138.535	122	112.364	148	93.905	174	80.26
19	364.286	45	240.612	71	176.23	97	137.33	123	111.536	149	93.305	175	79.806
20	357.517	46	237.381	72	174.378	98	136.145	124	110.718	150	92.711	176	79.357
21	350.971	47	234.228	73	172.561	99	134.977	125	109.912	151	92.124	177	78.913
22	344.637	48	231.149	74	170.777	100	133.827	126	109.116	152	91.544	178	78.473
23	338.505	49	228.142	75	169.026	101	132.695	127	108.33	153	90.97	179	78.038
24	332.566	50	225.205	76	167.307	102	131.58	128	107.555	154	90.403	180	77.607
25	326.811	51	222.334	77	165.62	103	130.482	129	106.789	155	89.842		
26	321.233	52	219.529	78	163.962	104	129.4	130	106.033	156	89.287		

表 B5.8 镇康县暴雨强度 $P=100a$ 查用表

镇康县 $P=100a$ t : min q : (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	563.959	27	332.529	53	228.938	79	171.495	105	135.482	131	111.022	157	93.445
2	550.097	28	327.07	54	226.117	80	169.804	106	134.368	132	110.24	158	92.869
3	536.829	29	321.768	55	223.357	81	168.142	107	133.27	133	109.467	159	92.298
4	524.12	30	316.618	56	220.657	82	166.508	108	132.188	134	108.703	160	91.734
5	511.936	31	311.612	57	218.013	83	164.903	109	131.122	135	107.949	161	91.176
6	500.247	32	306.745	58	215.426	84	163.325	110	130.07	136	107.205	162	90.625
7	489.024	33	302.012	59	212.893	85	161.773	111	129.034	137	106.469	163	90.078
8	478.241	34	297.407	60	210.412	86	160.248	112	128.012	138	105.742	164	89.538
9	467.874	35	292.926	61	207.982	87	158.748	113	127.005	139	105.025	165	89.004
10	457.9	36	288.563	62	205.602	88	157.273	114	126.011	140	104.315	166	88.475
11	448.298	37	284.314	63	203.27	89	155.822	115	125.032	141	103.615	167	87.952
12	439.048	38	280.176	64	200.984	90	154.394	116	124.065	142	102.922	168	87.434
13	430.132	39	276.143	65	198.744	91	152.99	117	123.112	143	102.238	169	86.922
14	421.533	40	272.212	66	196.547	92	151.608	118	122.172	144	101.562	170	86.415
15	413.235	41	268.38	67	194.394	93	150.249	119	121.245	145	100.893	171	85.913
16	405.223	42	264.643	68	192.282	94	148.91	120	120.33	146	100.233	172	85.416
17	397.483	43	260.997	69	190.21	95	147.593	121	119.427	147	99.58	173	84.924
18	390.002	44	257.44	70	188.178	96	146.297	122	118.536	148	98.934	174	84.438
19	382.768	45	253.968	71	186.184	97	145.02	123	117.657	149	98.296	175	83.956
20	375.77	46	250.578	72	184.228	98	143.763	124	116.79	150	97.666	176	83.479
21	368.995	47	247.268	73	182.307	99	142.526	125	115.933	151	97.042	177	83.007
22	362.435	48	244.035	74	180.422	100	141.307	126	115.088	152	96.426	178	82.54
23	356.079	49	240.876	75	178.572	101	140.107	127	114.254	153	95.816	179	82.078
24	349.919	50	237.789	76	176.755	102	138.925	128	113.431	154	95.214	180	81.62
25	343.946	51	234.772	77	174.97	103	137.76	129	112.618	155	94.618		
26	338.152	52	231.823	78	173.217	104	136.612	130	111.815	156	94.028		

B6 耿马县暴雨强度查用表

表 B6.1 耿马县暴雨强度 P=2a 查用表

耿马县 P=2a t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	355.118	27	157.996	53	103.862	79	78.096	105	62.909	131	52.848	157	45.671
2	338.096	28	154.818	54	102.54	80	77.37	106	62.448	132	52.528	158	45.436
3	322.708	29	151.772	55	101.253	81	76.657	107	61.993	133	52.213	159	45.203
4	308.727	30	148.85	56	100	82	75.958	108	61.546	134	51.901	160	44.973
5	295.966	31	146.044	57	98.779	83	75.272	109	61.105	135	51.592	161	44.745
6	284.268	32	143.348	58	97.589	84	74.599	110	60.671	136	51.288	162	44.519
7	273.505	33	140.754	59	96.429	85	73.939	111	60.243	137	50.988	163	44.296
8	263.567	34	138.257	60	95.298	86	73.291	112	59.821	138	50.691	164	44.075
9	254.362	35	135.852	61	94.194	87	72.654	113	59.406	139	50.398	165	43.857
10	245.809	36	133.534	62	93.117	88	72.03	114	58.997	140	50.108	166	43.641
11	237.842	37	131.298	63	92.066	89	71.416	115	58.594	141	49.822	167	43.427
12	230.4	38	129.139	64	91.039	90	70.814	116	58.196	142	49.539	168	43.215
13	223.433	39	127.053	65	90.036	91	70.222	117	57.804	143	49.26	169	43.006
14	216.897	40	125.038	66	89.057	92	69.64	118	57.418	144	48.984	170	42.798
15	210.751	41	123.089	67	88.099	93	69.069	119	57.037	145	48.711	171	42.593
16	204.961	42	121.203	68	87.163	94	68.507	120	56.661	146	48.442	172	42.389
17	199.497	43	119.376	69	86.248	95	67.955	121	56.291	147	48.175	173	42.188
18	194.331	44	117.607	70	85.352	96	67.412	122	55.925	148	47.912	174	41.989
19	189.44	45	115.893	71	84.476	97	66.879	123	55.565	149	47.652	175	41.792
20	184.801	46	114.23	72	83.619	98	66.354	124	55.209	150	47.394	176	41.596
21	180.396	47	112.616	73	82.78	99	65.837	125	54.858	151	47.14	177	41.403
22	176.207	48	111.051	74	81.959	100	65.33	126	54.512	152	46.888	178	41.212
23	172.217	49	109.53	75	81.154	101	64.83	127	54.171	153	46.639	179	41.022
24	168.414	50	108.052	76	80.366	102	64.338	128	53.834	154	46.393	180	40.834
25	164.784	51	106.616	77	79.594	103	63.854	129	53.501	155	46.15		
26	161.314	52	105.22	78	78.838	104	63.378	130	53.173	156	45.909		

表 B6.2 耿马县暴雨强度 $P=3a$ 查用表

耿马县 $P=3a$ t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	393.087	27	172.743	53	113.809	79	85.86	105	69.384	131	58.458	157	50.651
2	373.6	28	169.271	54	112.374	80	85.071	106	68.883	132	58.11	158	50.395
3	356.069	29	165.944	55	110.977	81	84.298	107	68.39	133	57.767	159	50.142
4	340.207	30	162.755	56	109.618	82	83.54	108	67.904	134	57.427	160	49.891
5	325.782	31	159.694	57	108.293	83	82.797	109	67.426	135	57.093	161	49.643
6	312.605	32	156.753	58	107.002	84	82.067	110	66.954	136	56.762	162	49.397
7	300.517	33	153.925	59	105.743	85	81.351	111	66.49	137	56.435	163	49.154
8	289.386	34	151.205	60	104.516	86	80.648	112	66.032	138	56.112	164	48.914
9	279.101	35	148.585	61	103.319	87	79.958	113	65.581	139	55.794	165	48.676
10	269.567	36	146.06	62	102.15	88	79.28	114	65.137	140	55.479	166	48.44
11	260.703	37	143.626	63	101.01	89	78.615	115	64.699	141	55.168	167	48.207
12	252.439	38	141.276	64	99.896	90	77.961	116	64.267	142	54.86	168	47.977
13	244.716	39	139.007	65	98.809	91	77.319	117	63.842	143	54.556	169	47.749
14	237.482	40	136.815	66	97.746	92	76.688	118	63.422	144	54.256	170	47.523
15	230.689	41	134.695	67	96.707	93	76.068	119	63.008	145	53.959	171	47.299
16	224.299	42	132.644	68	95.692	94	75.459	120	62.6	146	53.666	172	47.077
17	218.275	43	130.659	69	94.7	95	74.86	121	62.198	147	53.376	173	46.858
18	212.587	44	128.736	70	93.729	96	74.271	122	61.801	148	53.09	174	46.641
19	207.207	45	126.873	71	92.779	97	73.692	123	61.409	149	52.806	175	46.426
20	202.11	46	125.066	72	91.849	98	73.122	124	61.023	150	52.526	176	46.213
21	197.274	47	123.314	73	90.939	99	72.562	125	60.642	151	52.249	177	46.002
22	192.678	48	121.613	74	90.048	100	72.011	126	60.266	152	51.976	178	45.794
23	188.305	49	119.962	75	89.176	101	71.469	127	59.895	153	51.705	179	45.587
24	184.139	50	118.358	76	88.322	102	70.935	128	59.529	154	51.437	180	45.382
25	180.166	51	116.799	77	87.484	103	70.41	129	59.167	155	51.172		
26	176.371	52	115.283	78	86.664	104	69.893	130	58.81	156	50.91		

表 B6.3 耿马县暴雨强度 $P=5a$ 查用表

耿马县 $P=5a$ t : min q : (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	442.959	27	191.241	53	126.297	79	95.652	105	77.59	131	65.596	157	57.013
2	419.961	28	187.397	54	124.723	80	94.788	106	77.04	132	65.214	158	56.731
3	399.407	29	183.716	55	123.191	81	93.941	107	76.499	133	64.837	159	56.452
4	380.921	30	180.189	56	121.699	82	93.11	108	75.966	134	64.464	160	56.176
5	364.197	31	176.806	57	120.245	83	92.295	109	75.441	135	64.096	161	55.903
6	348.991	32	173.557	58	118.829	84	91.495	110	74.924	136	63.733	162	55.633
7	335.099	33	170.436	59	117.449	85	90.71	111	74.414	137	63.374	163	55.365
8	322.355	34	167.434	60	116.103	86	89.939	112	73.912	138	63.019	164	55.101
9	310.619	35	164.545	61	114.79	87	89.183	113	73.418	139	62.669	165	54.839
10	299.773	36	161.762	62	113.509	88	88.44	114	72.93	140	62.323	166	54.579
11	289.718	37	159.079	63	112.258	89	87.711	115	72.449	141	61.981	167	54.323
12	280.367	38	156.491	64	111.037	90	86.995	116	71.976	142	61.643	168	54.069
13	271.649	39	153.992	65	109.845	91	86.291	117	71.508	143	61.309	169	53.817
14	263.498	40	151.579	66	108.68	92	85.599	118	71.048	144	60.979	170	53.568
15	255.861	41	149.246	67	107.542	93	84.919	119	70.594	145	60.652	171	53.322
16	248.689	42	146.99	68	106.429	94	84.251	120	70.146	146	60.33	172	53.078
17	241.939	43	144.807	69	105.341	95	83.595	121	69.704	147	60.011	173	52.837
18	235.575	44	142.693	70	104.276	96	82.949	122	69.268	148	59.696	174	52.597
19	229.565	45	140.645	71	103.235	97	82.314	123	68.838	149	59.384	175	52.36
20	223.877	46	138.66	72	102.216	98	81.689	124	68.414	150	59.076	176	52.126
21	218.487	47	136.734	73	101.219	99	81.075	125	67.995	151	58.772	177	51.894
22	213.371	48	134.866	74	100.243	100	80.471	126	67.582	152	58.471	178	51.664
23	208.509	49	133.052	75	99.287	101	79.876	127	67.175	153	58.173	179	51.436
24	203.881	50	131.291	76	98.35	102	79.291	128	66.773	154	57.878	180	51.21
25	199.47	51	129.579	77	97.432	103	78.715	129	66.375	155	57.587		
26	195.261	52	127.915	78	96.533	104	78.148	130	65.983	156	57.298		

表 B6.4 耿马县暴雨强度 $P=10a$ 查用表

耿马县 $P=10a$ t : min q : (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	533.613	27	214.686	53	141.918	79	108.222	105	88.436	131	75.288	157	65.856
2	501.094	28	210.307	54	140.18	80	107.275	106	87.834	132	74.869	158	65.546
3	472.726	29	206.125	55	138.489	81	106.346	107	87.241	133	74.455	159	65.239
4	447.739	30	202.126	56	136.843	82	105.435	108	86.657	134	74.046	160	64.935
5	425.545	31	198.298	57	135.241	83	104.542	109	86.082	135	73.642	161	64.634
6	405.687	32	194.629	58	133.681	84	103.666	110	85.515	136	73.243	162	64.337
7	387.802	33	191.11	59	132.161	85	102.806	111	84.957	137	72.848	163	64.042
8	371.602	34	187.731	60	130.679	86	101.962	112	84.407	138	72.459	164	63.75
9	356.852	35	184.484	61	129.234	87	101.133	113	83.865	139	72.074	165	63.462
10	343.359	36	181.361	62	127.825	88	100.32	114	83.33	140	71.694	166	63.176
11	330.965	37	178.355	63	126.449	89	99.521	115	82.804	141	71.318	167	62.894
12	319.535	38	175.459	64	125.107	90	98.736	116	82.284	142	70.947	168	62.614
13	308.959	39	172.666	65	123.796	91	97.965	117	81.772	143	70.58	169	62.336
14	299.141	40	169.972	66	122.516	92	97.208	118	81.267	144	70.217	170	62.062
15	289.999	41	167.371	67	121.266	93	96.464	119	80.769	145	69.859	171	61.79
16	281.463	42	164.858	68	120.044	94	95.732	120	80.278	146	69.504	172	61.521
17	273.474	43	162.428	69	118.849	95	95.013	121	79.794	147	69.154	173	61.255
18	265.979	44	160.078	70	117.681	96	94.306	122	79.316	148	68.807	174	60.991
19	258.932	45	157.803	71	116.538	97	93.61	123	78.845	149	68.465	175	60.73
20	252.292	46	155.6	72	115.42	98	92.926	124	78.379	150	68.126	176	60.471
21	246.024	47	153.464	73	114.326	99	92.253	125	77.92	151	67.791	177	60.215
22	240.096	48	151.394	74	113.255	100	91.591	126	77.467	152	67.46	178	59.961
23	234.481	49	149.386	75	112.206	101	90.94	127	77.02	153	67.132	179	59.71
24	229.154	50	147.437	76	111.179	102	90.299	128	76.579	154	66.808	180	59.461
25	224.092	51	145.544	77	110.173	103	89.668	129	76.143	155	66.487		
26	219.275	52	143.705	78	109.188	104	89.047	130	75.713	156	66.17		

表 B6.5 耿马县暴雨强度 $P=20a$ 查用表

耿马县 $P=20a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	630.063	27	234.44	53	154.936	79	118.742	105	97.567	131	83.494	157	73.383
2	584.752	28	229.586	54	153.062	80	117.727	106	96.923	132	83.045	158	73.049
3	546.354	29	224.96	55	151.241	81	116.733	107	96.288	133	82.601	159	72.72
4	513.345	30	220.544	56	149.468	82	115.758	108	95.664	134	82.163	160	72.394
5	484.626	31	216.324	57	147.744	83	114.802	109	95.048	135	81.73	161	72.071
6	459.382	32	212.288	58	146.064	84	113.864	110	94.442	136	81.303	162	71.751
7	436.996	33	208.422	59	144.429	85	112.943	111	93.845	137	80.88	163	71.435
8	416.99	34	204.716	60	142.835	86	112.04	112	93.256	138	80.463	164	71.122
9	398.99	35	201.159	61	141.282	87	111.153	113	92.676	139	80.051	165	70.812
10	382.698	36	197.743	62	139.767	88	110.282	114	92.104	140	79.643	166	70.505
11	367.872	37	194.459	63	138.29	89	109.427	115	91.54	141	79.24	167	70.202
12	354.315	38	191.298	64	136.848	90	108.588	116	90.984	142	78.842	168	69.901
13	341.865	39	188.254	65	135.441	91	107.763	117	90.436	143	78.449	169	69.603
14	330.385	40	185.321	66	134.067	92	106.952	118	89.896	144	78.06	170	69.308
15	319.763	41	182.491	67	132.724	93	106.156	119	89.363	145	77.676	171	69.017
16	309.902	42	179.76	68	131.413	94	105.373	120	88.837	146	77.296	172	68.727
17	300.72	43	177.122	69	130.131	95	104.603	121	88.319	147	76.92	173	68.441
18	292.145	44	174.572	70	128.878	96	103.847	122	87.807	148	76.548	174	68.158
19	284.118	45	172.106	71	127.653	97	103.103	123	87.302	149	76.181	175	67.877
20	276.586	46	169.72	72	126.454	98	102.371	124	86.804	150	75.818	176	67.599
21	269.501	47	167.408	73	125.282	99	101.651	125	86.313	151	75.458	177	67.323
22	262.824	48	165.169	74	124.134	100	100.943	126	85.828	152	75.103	178	67.051
23	256.519	49	162.998	75	123.01	101	100.246	127	85.349	153	74.751	179	66.78
24	250.555	50	160.892	76	121.91	102	99.56	128	84.876	154	74.404	180	66.512
25	244.903	51	158.848	77	120.832	103	98.885	129	84.41	155	74.06		
26	239.539	52	156.864	78	119.776	104	98.221	130	83.949	156	73.719		

表 B6.6 耿马县暴雨强度 $P=30a$ 查用表

耿马县 $P=30a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	683.202	27	244.274	53	161.561	79	124.166	105	102.314	131	87.784	157	77.334
2	629.78	28	239.192	54	159.622	80	123.119	106	101.649	132	87.32	158	76.99
3	585.261	29	234.353	55	157.738	81	122.093	107	100.994	133	86.862	159	76.649
4	547.51	30	229.738	56	155.905	82	121.087	108	100.349	134	86.409	160	76.311
5	515.038	31	225.332	57	154.121	83	120.1	109	99.714	135	85.962	161	75.977
6	486.766	32	221.12	58	152.385	84	119.132	110	99.088	136	85.52	162	75.647
7	461.9	33	217.089	59	150.695	85	118.182	111	98.472	137	85.084	163	75.32
8	439.833	34	213.227	60	149.048	86	117.25	112	97.864	138	84.653	164	74.996
9	420.1	35	209.523	61	147.442	87	116.335	113	97.265	139	84.227	165	74.675
10	402.333	36	205.968	62	145.877	88	115.436	114	96.675	140	83.806	166	74.358
11	386.242	37	202.551	63	144.351	89	114.554	115	96.093	141	83.389	167	74.044
12	371.589	38	199.265	64	142.861	90	113.687	116	95.519	142	82.978	168	73.733
13	358.183	39	196.102	65	141.407	91	112.836	117	94.953	143	82.572	169	73.425
14	345.863	40	193.054	66	139.988	92	112	118	94.395	144	82.17	170	73.12
15	334.497	41	190.116	67	138.602	93	111.178	119	93.845	145	81.772	171	72.818
16	323.975	42	187.282	68	137.248	94	110.37	120	93.302	146	81.38	172	72.519
17	314.2	43	184.544	69	135.924	95	109.576	121	92.767	147	80.991	173	72.222
18	305.093	44	181.9	70	134.63	96	108.795	122	92.239	148	80.607	174	71.929
19	296.585	45	179.343	71	133.365	97	108.027	123	91.717	149	80.227	175	71.638
20	288.615	46	176.869	72	132.128	98	107.272	124	91.203	150	79.852	176	71.35
21	281.133	47	174.474	73	130.917	99	106.529	125	90.695	151	79.48	177	71.065
22	274.092	48	172.154	74	129.732	100	105.798	126	90.194	152	79.113	178	70.783
23	267.453	49	169.905	75	128.572	101	105.079	127	89.7	153	78.749	179	70.503
24	261.181	50	167.725	76	127.436	102	104.371	128	89.212	154	78.39	180	70.226
25	255.245	51	165.609	77	126.324	103	103.675	129	88.73	155	78.034		
26	249.618	52	163.555	78	125.234	104	102.989	130	88.254	156	77.682		

表 B6.7 耿马县暴雨强度 P=50a 查用表

耿马县 P=50a t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	753.787	27	255.757	53	169.383	79	130.637	105	108.018	131	92.969	157	82.131
2	688.127	28	250.412	54	167.372	80	129.553	106	107.33	132	92.488	158	81.773
3	634.699	29	245.328	55	165.417	81	128.491	107	106.652	133	92.013	159	81.419
4	590.249	30	240.484	56	163.516	82	127.45	108	105.984	134	91.543	160	81.069
5	552.6	31	235.863	57	161.666	83	126.428	109	105.327	135	91.08	161	80.722
6	520.241	32	231.45	58	159.866	84	125.426	110	104.679	136	90.622	162	80.379
7	492.083	33	227.229	59	158.113	85	124.443	111	104.04	137	90.17	163	80.04
8	467.324	34	223.189	60	156.406	86	123.478	112	103.411	138	89.723	164	79.703
9	445.357	35	219.317	61	154.742	87	122.531	113	102.791	139	89.281	165	79.371
10	425.714	36	215.602	62	153.12	88	121.601	114	102.179	140	88.844	166	79.041
11	408.029	37	212.035	63	151.538	89	120.688	115	101.577	141	88.413	167	78.715
12	392.009	38	208.606	64	149.995	90	119.791	116	100.982	142	87.986	168	78.392
13	377.419	39	205.307	65	148.489	91	118.91	117	100.396	143	87.565	169	78.072
14	364.068	40	202.13	66	147.019	92	118.044	118	99.818	144	87.148	170	77.755
15	351.796	41	199.069	67	145.583	93	117.194	119	99.248	145	86.736	171	77.441
16	340.471	42	196.117	68	144.18	94	116.357	120	98.686	146	86.328	172	77.131
17	329.984	43	193.268	69	142.81	95	115.535	121	98.132	147	85.925	173	76.823
18	320.239	44	190.516	70	141.47	96	114.727	122	97.584	148	85.527	174	76.518
19	311.157	45	187.856	71	140.16	97	113.932	123	97.044	149	85.133	175	76.216
20	302.669	46	185.283	72	138.879	98	113.151	124	96.511	150	84.743	176	75.917
21	294.717	47	182.794	73	137.625	99	112.382	125	95.986	151	84.358	177	75.621
22	287.248	48	180.383	74	136.398	100	111.625	126	95.466	152	83.977	178	75.327
23	280.217	49	178.047	75	135.198	101	110.881	127	94.954	153	83.6	179	75.037
24	273.585	50	175.782	76	134.022	102	110.148	128	94.448	154	83.226	180	74.748
25	267.318	51	173.586	77	132.87	103	109.427	129	93.949	155	82.857		
26	261.384	52	171.453	78	131.742	104	108.717	130	93.456	156	82.492		

表 B6.8 耿马县暴雨强度 $P=100a$ 查用表

耿马县 $P=100a$ t : min q : (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	863.048	27	268.993	53	178.41	79	138.202	105	114.767	131	99.161	157	87.906
2	774.267	28	263.332	54	176.319	80	137.08	106	114.053	132	98.662	158	87.534
3	704.987	29	257.955	55	174.287	81	135.979	107	113.351	133	98.169	159	87.166
4	649.17	30	252.84	56	172.311	82	134.9	108	112.659	134	97.682	160	86.802
5	603.08	31	247.966	57	170.389	83	133.842	109	111.977	135	97.201	161	86.442
6	564.269	32	243.317	58	168.52	84	132.804	110	111.305	136	96.726	162	86.085
7	531.063	33	238.876	59	166.699	85	131.785	111	110.644	137	96.256	163	85.732
8	502.274	34	234.628	60	164.927	86	130.785	112	109.991	138	95.792	164	85.382
9	477.035	35	230.562	61	163.199	87	129.804	113	109.348	139	95.333	165	85.036
10	454.696	36	226.664	62	161.516	88	128.84	114	108.714	140	94.88	166	84.693
11	434.761	37	222.923	63	159.874	89	127.894	115	108.09	141	94.432	167	84.354
12	416.841	38	219.331	64	158.273	90	126.965	116	107.473	142	93.989	168	84.018
13	400.632	39	215.877	65	156.711	91	126.052	117	106.866	143	93.551	169	83.685
14	385.886	40	212.554	66	155.186	92	125.155	118	106.267	144	93.119	170	83.355
15	372.405	41	209.354	67	153.696	93	124.274	119	105.676	145	92.691	171	83.029
16	360.023	42	206.269	68	152.242	94	123.408	120	105.092	146	92.267	172	82.706
17	348.605	43	203.294	69	150.82	95	122.556	121	104.517	147	91.849	173	82.385
18	338.036	44	200.422	70	149.431	96	121.719	122	103.95	148	91.435	174	82.068
19	328.22	45	197.647	71	148.073	97	120.895	123	103.39	149	91.026	175	81.754
20	319.075	46	194.964	72	146.745	98	120.085	124	102.837	150	90.621	176	81.443
21	310.531	47	192.37	73	145.445	99	119.289	125	102.291	151	90.22	177	81.134
22	302.527	48	189.858	74	144.174	100	118.505	126	101.753	152	89.824	178	80.829
23	295.011	49	187.425	75	142.929	101	117.733	127	101.221	153	89.432	179	80.526
24	287.938	50	185.068	76	141.71	102	116.974	128	100.696	154	89.045	180	80.226
25	281.266	51	182.781	77	140.517	103	116.227	129	100.178	155	88.661		
26	274.962	52	180.563	78	139.348	104	115.491	130	99.667	156	88.282		

B7 沧源县暴雨强度查用表

表 B7.1 沧源县暴雨强度 $P=2a$ 查用表

沧源县 $P=2a$ t : min q : (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	355.638	27	175.113	53	117.569	79	88.992	105	71.826	131	60.342	157	52.103
2	341.728	28	171.832	54	116.121	80	88.175	106	71.301	132	59.975	158	51.833
3	328.899	29	168.676	55	114.709	81	87.374	107	70.784	133	59.613	159	51.565
4	317.029	30	165.637	56	113.332	82	86.588	108	70.275	134	59.256	160	51.3
5	306.012	31	162.71	57	111.989	83	85.816	109	69.773	135	58.903	161	51.037
6	295.759	32	159.888	58	110.679	84	85.058	110	69.278	136	58.554	162	50.778
7	286.192	33	157.165	59	109.4	85	84.315	111	68.791	137	58.21	163	50.521
8	277.244	34	154.537	60	108.151	86	83.584	112	68.31	138	57.869	164	50.267
9	268.857	35	151.998	61	106.931	87	82.866	113	67.837	139	57.533	165	50.016
10	260.978	36	149.543	62	105.74	88	82.161	114	67.37	140	57.201	166	49.767
11	253.563	37	147.17	63	104.575	89	81.469	115	66.91	141	56.872	167	49.52
12	246.571	38	144.873	64	103.437	90	80.788	116	66.456	142	56.548	168	49.277
13	239.966	39	142.649	65	102.324	91	80.119	117	66.009	143	56.227	169	49.035
14	233.717	40	140.494	66	101.236	92	79.461	118	65.568	144	55.91	170	48.796
15	227.796	41	138.406	67	100.171	93	78.815	119	65.133	145	55.597	171	48.56
16	222.177	42	136.381	68	99.13	94	78.179	120	64.704	146	55.288	172	48.326
17	216.838	43	134.416	69	98.11	95	77.554	121	64.28	147	54.982	173	48.094
18	211.757	44	132.509	70	97.112	96	76.939	122	63.863	148	54.679	174	47.864
19	206.917	45	130.658	71	96.135	97	76.334	123	63.451	149	54.38	175	47.637
20	202.3	46	128.859	72	95.177	98	75.739	124	63.044	150	54.084	176	47.412
21	197.892	47	127.11	73	94.24	99	75.153	125	62.643	151	53.792	177	47.189
22	193.678	48	125.41	74	93.321	100	74.576	126	62.247	152	53.502	178	46.968
23	189.645	49	123.756	75	92.421	101	74.009	127	61.856	153	53.216	179	46.75
24	185.783	50	122.147	76	91.538	102	73.451	128	61.47	154	52.934	180	46.533
25	182.079	51	120.581	77	90.673	103	72.901	129	61.089	155	52.654		
26	178.526	52	119.055	78	89.824	104	72.359	130	60.713	156	52.377		

表 B7.2 沧源县暴雨强度 $P=3a$ 查用表

沧源县 $P=3a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	406.499	27	189.64	53	127.562	79	97.393	105	79.357	131	67.279	157	58.588
2	388.196	28	186.036	54	126.026	80	96.535	106	78.805	132	66.893	158	58.302
3	371.592	29	182.578	55	124.529	81	95.692	107	78.262	133	66.512	159	58.019
4	356.455	30	179.256	56	123.07	82	94.866	108	77.727	134	66.135	160	57.738
5	342.595	31	176.062	57	121.648	83	94.055	109	77.199	135	65.763	161	57.461
6	329.854	32	172.989	58	120.261	84	93.258	110	76.679	136	65.396	162	57.187
7	318.098	33	170.031	59	118.908	85	92.477	111	76.167	137	65.033	163	56.915
8	307.214	34	167.18	60	117.587	86	91.709	112	75.662	138	64.674	164	56.646
9	297.107	35	164.43	61	116.298	87	90.955	113	75.165	139	64.32	165	56.38
10	287.695	36	161.777	62	115.04	88	90.214	114	74.674	140	63.969	166	56.117
11	278.907	37	159.215	63	113.81	89	89.486	115	74.19	141	63.623	167	55.856
12	270.681	38	156.74	64	112.608	90	88.771	116	73.713	142	63.281	168	55.598
13	262.964	39	154.346	65	111.434	91	88.068	117	73.243	143	62.943	169	55.342
14	255.709	40	152.031	66	110.286	92	87.378	118	72.779	144	62.608	170	55.089
15	248.875	41	149.789	67	109.163	93	86.698	119	72.321	145	62.278	171	54.838
16	242.425	42	147.618	68	108.065	94	86.031	120	71.87	146	61.951	172	54.59
17	236.327	43	145.514	69	106.991	95	85.374	121	71.425	147	61.628	173	54.345
18	230.552	44	143.474	70	105.939	96	84.728	122	70.985	148	61.309	174	54.101
19	225.075	45	141.495	71	104.91	97	84.092	123	70.552	149	60.993	175	53.86
20	219.872	46	139.575	72	103.902	98	83.467	124	70.124	150	60.681	176	53.622
21	214.924	47	137.71	73	102.915	99	82.852	125	69.702	151	60.372	177	53.385
22	210.211	48	135.898	74	101.948	100	82.246	126	69.285	152	60.067	178	53.151
23	205.716	49	134.137	75	101	101	81.65	127	68.873	153	59.764	179	52.92
24	201.425	50	132.425	76	100.071	102	81.063	128	68.467	154	59.466	180	52.69
25	197.324	51	130.76	77	99.161	103	80.486	129	68.066	155	59.17		
26	193.399	52	129.14	78	98.269	104	79.917	130	67.67	156	58.878		

表 B7.3 沧源县暴雨强度 $P=5a$ 查用表

沧源县 $P=5a$ t : min q : (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	432.092	27	181.105	53	122.085	79	94.314	105	77.824	131	66.771	157	58.786
2	406.845	28	177.583	54	120.661	80	93.528	106	77.319	132	66.417	158	58.522
3	384.776	29	174.216	55	119.275	81	92.757	107	76.823	133	66.067	159	58.261
4	365.297	30	170.993	56	117.925	82	92.001	108	76.333	134	65.722	160	58.003
5	347.963	31	167.905	57	116.61	83	91.259	109	75.851	135	65.38	161	57.747
6	332.424	32	164.943	58	115.328	84	90.531	110	75.376	136	65.043	162	57.494
7	318.405	33	162.1	59	114.079	85	89.816	111	74.907	137	64.71	163	57.243
8	305.685	34	159.368	60	112.861	86	89.114	112	74.445	138	64.381	164	56.995
9	294.084	35	156.741	61	111.672	87	88.424	113	73.99	139	64.055	165	56.75
10	283.456	36	154.211	62	110.512	88	87.747	114	73.541	140	63.734	166	56.507
11	273.679	37	151.775	63	109.38	89	87.082	115	73.099	141	63.416	167	56.266
12	264.649	38	149.426	64	108.274	90	86.428	116	72.663	142	63.102	168	56.028
13	256.282	39	147.16	65	107.194	91	85.785	117	72.232	143	62.791	169	55.792
14	248.503	40	144.971	66	106.138	92	85.154	118	71.808	144	62.484	170	55.558
15	241.251	41	142.857	67	105.106	93	84.533	119	71.389	145	62.18	171	55.327
16	234.472	42	140.813	68	104.098	94	83.923	120	70.976	146	61.88	172	55.098
17	228.119	43	138.835	69	103.111	95	83.323	121	70.568	147	61.583	173	54.871
18	222.151	44	136.921	70	102.146	96	82.732	122	70.166	148	61.289	174	54.646
19	216.533	45	135.067	71	101.201	97	82.151	123	69.769	149	60.999	175	54.423
20	211.235	46	133.27	72	100.277	98	81.58	124	69.377	150	60.712	176	54.202
21	206.227	47	131.528	73	99.372	99	81.018	125	68.99	151	60.428	177	53.984
22	201.486	48	129.837	74	98.485	100	80.464	126	68.609	152	60.147	178	53.767
23	196.991	49	128.196	75	97.617	101	79.92	127	68.232	153	59.869	179	53.553
24	192.722	50	126.603	76	96.766	102	79.383	128	67.86	154	59.594	180	53.34
25	188.661	51	125.054	77	95.932	103	78.855	129	67.492	155	59.321		
26	184.794	52	123.549	78	95.115	104	78.336	130	67.129	156	59.052		

表 B7.4 沧源县暴雨强度 $P=10a$ 查用表

沧源县 $P=10a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	582.234	27	212.884	53	144.758	79	113.489	105	94.965	131	82.503	157	73.45
2	535.18	28	208.72	54	143.148	80	112.607	106	94.397	132	82.103	158	73.15
3	496.58	29	204.753	55	141.581	81	111.742	107	93.838	133	81.707	159	72.853
4	464.243	30	200.969	56	140.056	82	110.893	108	93.287	134	81.316	160	72.559
5	436.686	31	197.355	57	138.572	83	110.059	109	92.745	135	80.93	161	72.268
6	412.873	32	193.898	58	137.126	84	109.242	110	92.209	136	80.549	162	71.98
7	392.051	33	190.588	59	135.717	85	108.439	111	91.682	137	80.171	163	71.695
8	373.661	34	187.415	60	134.344	86	107.651	112	91.162	138	79.799	164	71.412
9	357.28	35	184.371	61	133.005	87	106.877	113	90.649	139	79.43	165	71.132
10	342.577	36	181.447	62	131.698	88	106.116	114	90.144	140	79.066	166	70.855
11	329.294	37	178.635	63	130.423	89	105.369	115	89.645	141	78.706	167	70.581
12	317.224	38	175.93	64	129.178	90	104.635	116	89.153	142	78.35	168	70.309
13	306.199	39	173.325	65	127.963	91	103.913	117	88.668	143	77.998	169	70.04
14	296.081	40	170.813	66	126.775	92	103.204	118	88.19	144	77.649	170	69.774
15	286.756	41	168.39	67	125.615	93	102.507	119	87.717	145	77.305	171	69.51
16	278.13	42	166.051	68	124.481	94	101.821	120	87.251	146	76.964	172	69.248
17	270.123	43	163.792	69	123.371	95	101.147	121	86.791	147	76.628	173	68.989
18	262.666	44	161.607	70	122.287	96	100.483	122	86.338	148	76.294	174	68.732
19	255.701	45	159.493	71	121.225	97	99.831	123	85.89	149	75.965	175	68.478
20	249.179	46	157.447	72	120.186	98	99.188	124	85.447	150	75.639	176	68.226
21	243.056	47	155.466	73	119.17	99	98.556	125	85.011	151	75.316	177	67.976
22	237.295	48	153.545	74	118.174	100	97.934	126	84.58	152	74.997	178	67.729
23	231.862	49	151.682	75	117.199	101	97.322	127	84.154	153	74.681	179	67.483
24	226.728	50	149.874	76	116.243	102	96.719	128	83.733	154	74.368	180	67.24
25	221.869	51	148.12	77	115.307	103	96.125	129	83.318	155	74.059		
26	217.261	52	146.415	78	114.389	104	95.541	130	82.908	156	73.753		

表 B7.5 沧源县暴雨强度 $P=20a$ 查用表

沧源县 $P=20a$ t : min q : (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	733.511	27	237.232	53	161.078	79	126.733	105	106.473	131	92.853	157	82.952
2	657.883	28	232.507	54	159.302	80	125.767	106	105.853	132	92.416	158	82.624
3	599.448	29	228.015	55	157.576	81	124.82	107	105.242	133	91.983	159	82.299
4	552.68	30	223.739	56	155.896	82	123.891	108	104.64	134	91.556	160	81.977
5	514.236	31	219.662	57	154.262	83	122.979	109	104.047	135	91.134	161	81.659
6	481.965	32	215.77	58	152.67	84	122.084	110	103.462	136	90.717	162	81.343
7	454.413	33	212.05	59	151.12	85	121.206	111	102.886	137	90.305	163	81.031
8	430.561	34	208.489	60	149.61	86	120.343	112	102.318	138	89.897	164	80.722
9	409.669	35	205.077	61	148.138	87	119.497	113	101.757	139	89.494	165	80.416
10	391.188	36	201.805	62	146.702	88	118.665	114	101.205	140	89.096	166	80.112
11	374.7	37	198.663	63	145.301	89	117.848	115	100.66	141	88.702	167	79.812
12	359.88	38	195.643	64	143.934	90	117.045	116	100.122	142	88.312	168	79.514
13	346.472	39	192.738	65	142.599	91	116.256	117	99.592	143	87.927	169	79.22
14	334.272	40	189.941	66	141.296	92	115.48	118	99.069	144	87.546	170	78.928
15	323.114	41	187.245	67	140.022	93	114.718	119	98.553	145	87.17	171	78.639
16	312.861	42	184.645	68	138.778	94	113.968	120	98.044	146	86.797	172	78.352
17	303.401	43	182.135	69	137.561	95	113.231	121	97.541	147	86.429	173	78.068
18	294.64	44	179.711	70	136.371	96	112.505	122	97.045	148	86.064	174	77.787
19	286.498	45	177.367	71	135.208	97	111.792	123	96.555	149	85.704	175	77.509
20	278.908	46	175.101	72	134.069	98	111.09	124	96.072	150	85.347	176	77.233
21	271.812	47	172.907	73	132.955	99	110.399	125	95.595	151	84.994	177	76.959
22	265.16	48	170.781	74	131.864	100	109.719	126	95.123	152	84.645	178	76.688
23	258.909	49	168.722	75	130.795	101	109.05	127	94.658	153	84.299	179	76.419
24	253.022	50	166.724	76	129.749	102	108.391	128	94.199	154	83.957	180	76.153
25	247.465	51	164.787	77	128.723	103	107.742	129	93.745	155	83.619		
26	242.21	52	162.905	78	127.718	104	107.103	130	93.296	156	83.284		

表 B7.6 沧源县暴雨强度 $P=30a$ 查用表

沧源县 $P=30a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	812.000	27	250.779	53	170.802	79	134.858	105	113.646	131	99.369	157	88.975
2	719.618	28	245.797	54	168.943	80	133.847	106	112.996	132	98.910	158	88.630
3	650.353	29	241.064	55	167.136	81	132.856	107	112.356	133	98.456	159	88.289
4	596.106	30	236.561	56	165.377	82	131.883	108	111.726	134	98.008	160	87.951
5	552.235	31	232.270	57	163.667	83	130.929	109	111.104	135	97.565	161	87.616
6	515.870	32	228.175	58	162.001	84	129.992	110	110.491	136	97.127	162	87.285
7	485.135	33	224.263	59	160.379	85	129.073	111	109.887	137	96.694	163	86.956
8	458.744	34	220.521	60	158.798	86	128.170	112	109.292	138	96.267	164	86.631
9	435.785	35	216.936	61	157.257	87	127.284	113	108.705	139	95.844	165	86.310
10	415.589	36	213.499	62	155.754	88	126.413	114	108.125	140	95.426	166	85.991
11	397.658	37	210.200	63	154.288	89	125.558	115	107.554	141	95.012	167	85.675
12	381.607	38	207.030	64	152.858	90	124.717	116	106.991	142	94.604	168	85.362
13	367.136	39	203.981	65	151.461	91	123.891	117	106.435	143	94.199	169	85.053
14	354.010	40	201.047	66	150.097	92	123.079	118	105.887	144	93.800	170	84.746
15	342.037	41	198.219	67	148.764	93	122.281	119	105.346	145	93.404	171	84.442
16	331.062	42	195.493	68	147.462	94	121.496	120	104.812	146	93.013	172	84.141
17	320.957	43	192.861	69	146.189	95	120.724	121	104.285	147	92.626	173	83.842
18	311.616	44	190.320	70	144.944	96	119.964	122	103.765	148	92.244	174	83.547
19	302.950	45	187.864	71	143.726	97	119.217	123	103.251	149	91.865	175	83.254
20	294.884	46	185.489	72	142.535	98	118.482	124	102.744	150	91.490	176	82.963
21	287.352	47	183.190	73	141.369	99	117.758	125	102.244	151	91.120	177	82.676
22	280.301	48	180.964	74	140.227	100	117.046	126	101.750	152	90.753	178	82.390
23	273.682	49	178.807	75	139.109	101	116.345	127	101.262	153	90.390	179	82.108
24	267.454	50	176.715	76	138.014	102	115.655	128	100.780	154	90.031	180	81.828
25	261.582	51	174.685	77	136.941	103	114.975	129	100.304	155	89.675		
26	256.033	52	172.715	78	135.889	104	114.306	130	99.833	156	89.323		

表 B7.7 沧源县暴雨强度 $P=50a$ 查用表

沧源县 $P=50a$ t : min q : (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	918.248	27	268.42	53	183.77	79	145.816	105	123.388	131	108.26	157	97.225
2	800.456	28	263.128	54	181.808	80	144.748	106	122.7	132	107.773	158	96.858
3	715.745	29	258.103	55	179.899	81	143.701	107	122.022	133	107.292	159	96.495
4	651.275	30	253.325	56	178.043	82	142.673	108	121.354	134	106.817	160	96.136
5	600.21	31	248.774	57	176.237	83	141.665	109	120.696	135	106.347	161	95.78
6	558.545	32	244.434	58	174.479	84	140.675	110	120.048	136	105.882	162	95.428
7	523.76	33	240.289	59	172.766	85	139.703	111	119.408	137	105.423	163	95.079
8	494.182	34	236.325	60	171.097	86	138.749	112	118.777	138	104.969	164	94.733
9	468.654	35	232.53	61	169.47	87	137.812	113	118.155	139	104.52	165	94.391
10	446.347	36	228.892	62	167.884	88	136.892	114	117.542	140	104.076	166	94.052
11	426.65	37	225.401	63	166.336	89	135.987	115	116.937	141	103.638	167	93.716
12	409.1	38	222.048	64	164.826	90	135.099	116	116.34	142	103.204	168	93.384
13	393.342	39	218.823	65	163.351	91	134.225	117	115.751	143	102.775	169	93.054
14	379.097	40	215.72	66	161.911	92	133.367	118	115.17	144	102.35	170	92.728
15	366.142	41	212.731	67	160.504	93	132.523	119	114.597	145	101.93	171	92.404
16	354.297	42	209.85	68	159.129	94	131.692	120	114.031	146	101.515	172	92.084
17	343.417	43	207.069	69	157.784	95	130.876	121	113.473	147	101.104	173	91.766
18	333.379	44	204.384	70	156.47	96	130.073	122	112.921	148	100.698	174	91.451
19	324.084	45	201.789	71	155.184	97	129.282	123	112.377	149	100.296	175	91.14
20	315.445	46	199.28	72	153.926	98	128.505	124	111.84	150	99.898	176	90.831
21	307.39	47	196.852	73	152.694	99	127.739	125	111.309	151	99.504	177	90.524
22	299.859	48	194.501	74	151.488	100	126.986	126	110.785	152	99.114	178	90.221
23	292.798	49	192.222	75	150.307	101	126.244	127	110.268	153	98.728	179	89.92
24	286.161	50	190.013	76	149.15	102	125.513	128	109.757	154	98.347	180	89.622
25	279.908	51	187.871	77	148.017	103	124.794	129	109.252	155	97.969		
26	274.005	52	185.791	78	146.906	104	124.085	130	108.753	156	97.595		

表 B7.8 沧源县暴雨强度 $P=100a$ 查用表

沧源县 $P=100a$ t : min q : (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	1092.23	27	293.758	53	202.794	79	162.075	105	137.949	131	121.624	157	109.679
2	924.733	28	288.048	54	200.69	80	160.928	106	137.208	132	121.098	158	109.281
3	812.701	29	282.631	55	198.644	81	159.802	107	136.477	133	120.578	159	108.888
4	731.31	30	277.484	56	196.653	82	158.698	108	135.758	134	120.064	160	108.498
5	668.885	31	272.584	57	194.717	83	157.614	109	135.048	135	119.556	161	108.112
6	619.132	32	267.913	58	192.831	84	156.551	110	134.349	136	119.053	162	107.73
7	578.326	33	263.454	59	190.994	85	155.506	111	133.659	137	118.557	163	107.352
8	544.107	34	259.192	60	189.205	86	154.481	112	132.979	138	118.066	164	106.977
9	514.9	35	255.113	61	187.46	87	153.473	113	132.308	139	117.58	165	106.605
10	489.606	36	251.204	62	185.759	88	152.484	114	131.647	140	117.1	166	106.238
11	467.437	37	247.455	63	184.099	89	151.511	115	130.994	141	116.625	167	105.873
12	447.807	38	243.854	64	182.478	90	150.555	116	130.35	142	116.155	168	105.512
13	430.273	39	240.392	65	180.896	91	149.616	117	129.715	143	115.691	169	105.154
14	414.494	40	237.062	66	179.351	92	148.692	118	129.088	144	115.231	170	104.8
15	400.198	41	233.854	67	177.842	93	147.784	119	128.469	145	114.777	171	104.449
16	387.172	42	230.762	68	176.366	94	146.891	120	127.858	146	114.327	172	104.101
17	375.241	43	227.779	69	174.924	95	146.012	121	127.255	147	113.882	173	103.756
18	364.262	44	224.899	70	173.513	96	145.148	122	126.66	148	113.442	174	103.414
19	354.116	45	222.116	71	172.133	97	144.297	123	126.072	149	113.007	175	103.076
20	344.706	46	219.425	72	170.782	98	143.46	124	125.492	150	112.576	176	102.74
21	335.948	47	216.821	73	169.46	99	142.636	125	124.919	151	112.149	177	102.407
22	327.772	48	214.3	74	168.166	100	141.824	126	124.353	152	111.727	178	102.077
23	320.116	49	211.857	75	166.898	101	141.025	127	123.794	153	111.309	179	101.75
24	312.929	50	209.488	76	165.655	102	140.239	128	123.242	154	110.895	180	101.426
25	306.166	51	207.19	77	164.438	103	139.464	129	122.696	155	110.486		
26	299.787	52	204.96	78	163.245	104	138.701	130	122.157	156	110.08		

B8 双江县暴雨强度查用表

表 B8.1 双江县暴雨强度 $P=2a$ 查用表

双江县 $P=2a$ t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	303.933	27	126.958	53	83.046	79	62.575	105	50.588	131	42.662	157	37.008
2	287.3	28	124.339	54	81.991	80	62	106	50.224	132	42.41	158	36.822
3	272.517	29	121.833	55	80.964	81	61.437	107	49.866	133	42.161	159	36.639
4	259.286	30	119.435	56	79.964	82	60.884	108	49.513	134	41.916	160	36.457
5	247.369	31	117.136	57	78.991	83	60.342	109	49.166	135	41.673	161	36.278
6	236.576	32	114.931	58	78.042	84	59.811	110	48.824	136	41.433	162	36.1
7	226.752	33	112.813	59	77.119	85	59.289	111	48.487	137	41.197	163	35.924
8	217.768	34	110.779	60	76.218	86	58.777	112	48.155	138	40.963	164	35.75
9	209.521	35	108.821	61	75.34	87	58.275	113	47.827	139	40.732	165	35.578
10	201.92	36	106.938	62	74.483	88	57.782	114	47.505	140	40.504	166	35.407
11	194.891	37	105.123	63	73.648	89	57.297	115	47.187	141	40.278	167	35.239
12	188.37	38	103.373	64	72.832	90	56.822	116	46.874	142	40.056	168	35.072
13	182.303	39	101.685	65	72.036	91	56.355	117	46.565	143	39.836	169	34.906
14	176.644	40	100.056	66	71.258	92	55.896	118	46.261	144	39.618	170	34.743
15	171.351	41	98.482	67	70.498	93	55.445	119	45.961	145	39.403	171	34.581
16	166.389	42	96.961	68	69.755	94	55.002	120	45.665	146	39.191	172	34.421
17	161.728	43	95.489	69	69.029	95	54.566	121	45.373	147	38.981	173	34.262
18	157.34	44	94.065	70	68.319	96	54.138	122	45.086	148	38.773	174	34.105
19	153.201	45	92.686	71	67.625	97	53.717	123	44.802	149	38.568	175	33.949
20	149.291	46	91.35	72	66.946	98	53.303	124	44.522	150	38.366	176	33.795
21	145.59	47	90.055	73	66.281	99	52.896	125	44.245	151	38.165	177	33.643
22	142.082	48	88.799	74	65.631	100	52.496	126	43.973	152	37.967	178	33.491
23	138.752	49	87.581	75	64.994	101	52.102	127	43.704	153	37.771	179	33.342
24	135.586	50	86.397	76	64.371	102	51.714	128	43.438	154	37.577	180	33.194
25	132.572	51	85.248	77	63.76	103	51.333	129	43.176	155	37.385		
26	129.699	52	84.132	78	63.161	104	50.957	130	42.917	156	37.195		

表 B8.2 双江县暴雨强度 $P=3a$ 查用表

双江县 $P=3a$ t : min q : (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	348.477	27	148.657	53	97.148	79	72.993	105	58.836	131	49.481	157	42.815
2	330.32	28	145.601	54	95.904	80	72.314	106	58.406	132	49.184	158	42.596
3	314.069	29	142.676	55	94.693	81	71.648	107	57.983	133	48.89	159	42.38
4	299.433	30	139.873	56	93.515	82	70.996	108	57.567	134	48.6	160	42.166
5	286.178	31	137.185	57	92.367	83	70.356	109	57.157	135	48.314	161	41.954
6	274.115	32	134.605	58	91.249	84	69.728	110	56.753	136	48.031	162	41.745
7	263.086	33	132.126	59	90.16	85	69.112	111	56.355	137	47.752	163	41.538
8	252.963	34	129.742	60	89.097	86	68.507	112	55.963	138	47.477	164	41.333
9	243.636	35	127.449	61	88.061	87	67.914	113	55.577	139	47.204	165	41.13
10	235.013	36	125.24	62	87.051	88	67.332	114	55.196	140	46.935	166	40.929
11	227.015	37	123.111	63	86.065	89	66.76	115	54.821	141	46.67	167	40.731
12	219.577	38	121.058	64	85.102	90	66.198	116	54.451	142	46.407	168	40.534
13	212.639	39	119.077	65	84.162	91	65.646	117	54.087	143	46.148	169	40.34
14	206.153	40	117.163	66	83.244	92	65.104	118	53.728	144	45.891	170	40.147
15	200.075	41	115.314	67	82.347	93	64.572	119	53.374	145	45.638	171	39.956
16	194.366	42	113.526	68	81.471	94	64.048	120	53.024	146	45.387	172	39.768
17	188.994	43	111.796	69	80.614	95	63.534	121	52.68	147	45.14	173	39.581
18	183.929	44	110.121	70	79.776	96	63.028	122	52.34	148	44.895	174	39.396
19	179.145	45	108.499	71	78.956	97	62.531	123	52.005	149	44.654	175	39.213
20	174.619	46	106.927	72	78.154	98	62.042	124	51.675	150	44.415	176	39.031
21	170.33	47	105.403	73	77.37	99	61.561	125	51.349	151	44.178	177	38.852
22	166.259	48	103.925	74	76.602	100	61.089	126	51.027	152	43.945	178	38.674
23	162.39	49	102.49	75	75.85	101	60.623	127	50.71	153	43.713	179	38.498
24	158.709	50	101.096	76	75.113	102	60.166	128	50.396	154	43.485	180	38.324
25	155.201	51	99.743	77	74.392	103	59.715	129	50.087	155	43.259		
26	151.854	52	98.427	78	73.685	104	59.272	130	49.782	156	43.036		

表 B8.3 双江县暴雨强度 P=5a 查用表

双江县 P=5a t: min q: (L/s·hm²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	393.015	27	171.038	53	111.677	79	83.671	105	67.241	131	56.39	157	48.667
2	373.481	28	167.534	54	110.237	80	82.883	106	66.742	132	56.046	158	48.414
3	355.883	29	164.178	55	108.834	81	82.111	107	66.252	133	55.705	159	48.164
4	339.944	30	160.961	56	107.469	82	81.353	108	65.768	134	55.37	160	47.916
5	325.435	31	157.873	57	106.14	83	80.611	109	65.293	135	55.038	161	47.671
6	312.171	32	154.907	58	104.844	84	79.882	110	64.824	136	54.71	162	47.429
7	299.995	33	152.057	59	103.581	85	79.167	111	64.362	137	54.387	163	47.189
8	288.777	34	149.314	60	102.35	86	78.465	112	63.908	138	54.067	164	46.952
9	278.406	35	146.673	61	101.15	87	77.777	113	63.46	139	53.752	165	46.717
10	268.789	36	144.129	62	99.978	88	77.101	114	63.018	140	53.44	166	46.485
11	259.846	37	141.676	63	98.835	89	76.437	115	62.583	141	53.132	167	46.255
12	251.506	38	139.309	64	97.719	90	75.785	116	62.154	142	52.828	168	46.028
13	243.71	39	137.023	65	96.629	91	75.145	117	61.732	143	52.527	169	45.802
14	236.405	40	134.816	66	95.564	92	74.515	118	61.315	144	52.23	170	45.58
15	229.547	41	132.681	67	94.524	93	73.897	119	60.904	145	51.937	171	45.359
16	223.094	42	130.617	68	93.507	94	73.29	120	60.499	146	51.647	172	45.141
17	217.011	43	128.619	69	92.513	95	72.693	121	60.1	147	51.36	173	44.925
18	211.267	44	126.684	70	91.541	96	72.106	122	59.706	148	51.077	174	44.711
19	205.834	45	124.809	71	90.59	97	71.529	123	59.317	149	50.797	175	44.499
20	200.686	46	122.992	72	89.66	98	70.962	124	58.934	150	50.52	176	44.289
21	195.802	47	121.23	73	88.75	99	70.404	125	58.556	151	50.246	177	44.081
22	191.162	48	119.52	74	87.859	100	69.855	126	58.183	152	49.975	178	43.876
23	186.747	49	117.86	75	86.986	101	69.315	127	57.815	153	49.708	179	43.672
24	182.541	50	116.248	76	86.132	102	68.784	128	57.452	154	49.443	180	43.471
25	178.53	51	114.681	77	85.295	103	68.261	129	57.093	155	49.182		
26	174.699	52	113.158	78	84.474	104	67.747	130	56.74	156	48.923		

表 B8.4 双江县暴雨强度 $P=10a$ 查用表

双江县 $P=10a$ t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	435.957	27	194.297	53	126.756	79	94.638	105	75.77	131	63.318	157	54.466
2	415.481	28	190.338	54	125.106	80	93.734	106	75.198	132	62.922	158	54.177
3	396.899	29	186.541	55	123.5	81	92.847	107	74.635	133	62.532	159	53.89
4	379.958	30	182.898	56	121.937	82	91.977	108	74.08	134	62.147	160	53.607
5	364.447	31	179.4	57	120.414	83	91.124	109	73.534	135	61.767	161	53.326
6	350.191	32	176.037	58	118.929	84	90.287	110	72.996	136	61.391	162	53.049
7	337.042	33	172.801	59	117.482	85	89.466	111	72.466	137	61.02	163	52.774
8	324.875	34	169.687	60	116.071	86	88.661	112	71.944	138	60.654	164	52.503
9	313.583	35	166.686	61	114.695	87	87.87	113	71.429	139	60.292	165	52.234
10	303.074	36	163.793	62	113.352	88	87.093	114	70.923	140	59.935	166	51.968
11	293.268	37	161.002	63	112.041	89	86.331	115	70.423	141	59.582	167	51.705
12	284.096	38	158.307	64	110.761	90	85.582	116	69.931	142	59.233	168	51.445
13	275.498	39	155.704	65	109.51	91	84.847	117	69.446	143	58.889	169	51.187
14	267.422	40	153.189	66	108.289	92	84.124	118	68.968	144	58.548	170	50.932
15	259.82	41	150.755	67	107.096	93	83.415	119	68.496	145	58.212	171	50.68
16	252.653	42	148.401	68	105.929	94	82.717	120	68.031	146	57.879	172	50.43
17	245.882	43	146.121	69	104.789	95	82.031	121	67.573	147	57.551	173	50.183
18	239.477	44	143.913	70	103.673	96	81.358	122	67.121	148	57.226	174	49.938
19	233.407	45	141.772	71	102.582	97	80.695	123	66.675	149	56.905	175	49.696
20	227.647	46	139.696	72	101.514	98	80.043	124	66.236	150	56.588	176	49.456
21	222.173	47	137.682	73	100.469	99	79.403	125	65.802	151	56.275	177	49.219
22	216.965	48	135.728	74	99.446	100	78.772	126	65.374	152	55.965	178	48.984
23	212.003	49	133.83	75	98.445	101	78.152	127	64.952	153	55.658	179	48.751
24	207.271	50	131.986	76	97.464	102	77.543	128	64.535	154	55.355	180	48.52
25	202.751	51	130.193	77	96.503	103	76.942	129	64.124	155	55.056		
26	198.431	52	128.451	78	95.561	104	76.352	130	63.718	156	54.759		

表 B8.5 双江县暴雨强度 P=20a 查用表

双江县 P=20a t: min q: (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	495.545	27	226.54	53	147.801	79	110.009	105	87.76	131	73.078	157	62.655
2	473.612	28	221.959	54	145.864	80	108.943	106	87.085	132	72.612	158	62.314
3	453.567	29	217.562	55	143.979	81	107.897	107	86.42	133	72.153	159	61.976
4	435.174	30	213.34	56	142.142	82	106.872	108	85.766	134	71.699	160	61.643
5	418.236	31	209.28	57	140.352	83	105.866	109	85.122	135	71.251	161	61.313
6	402.587	32	205.374	58	138.607	84	104.88	110	84.487	136	70.808	162	60.987
7	388.084	33	201.614	59	136.906	85	103.912	111	83.862	137	70.371	163	60.664
8	374.606	34	197.992	60	135.247	86	102.962	112	83.247	138	69.94	164	60.345
9	362.046	35	194.499	61	133.628	87	102.029	113	82.64	139	69.514	165	60.029
10	350.313	36	191.129	62	132.048	88	101.113	114	82.043	140	69.093	166	59.716
11	339.328	37	187.876	63	130.505	89	100.214	115	81.454	141	68.677	167	59.407
12	329.022	38	184.733	64	128.999	90	99.332	116	80.874	142	68.266	168	59.1
13	319.333	39	181.696	65	127.528	91	98.464	117	80.302	143	67.861	169	58.798
14	310.207	40	178.758	66	126.09	92	97.612	118	79.738	144	67.46	170	58.498
15	301.595	41	175.915	67	124.685	93	96.775	119	79.182	145	67.064	171	58.201
16	293.457	42	173.163	68	123.312	94	95.952	120	78.634	146	66.672	172	57.908
17	285.752	43	170.497	69	121.969	95	95.144	121	78.094	147	66.285	173	57.617
18	278.448	44	167.913	70	120.655	96	94.349	122	77.561	148	65.903	174	57.329
19	271.514	45	165.407	71	119.37	97	93.568	123	77.035	149	65.525	175	57.044
20	264.922	46	162.977	72	118.112	98	92.799	124	76.517	150	65.152	176	56.763
21	258.648	47	160.617	73	116.881	99	92.043	125	76.006	151	64.783	177	56.483
22	252.668	48	158.327	74	115.675	100	91.3	126	75.501	152	64.418	178	56.207
23	246.963	49	156.101	75	114.495	101	90.569	127	75.004	153	64.057	179	55.934
24	241.514	50	153.939	76	113.339	102	89.85	128	74.513	154	63.701	180	55.663
25	236.304	51	151.836	77	112.207	103	89.142	129	74.028	155	63.348		
26	231.317	52	149.791	78	111.097	104	88.445	130	73.55	156	62.999		

表 B8.6 双江县暴雨强度 $P=30a$ 查用表

双江县 $P=30a$ t : min q : ($L/s \cdot hm^2$)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	535.146	27	246.432	53	160.720	79	119.467	105	95.168	131	79.139	157	67.765
2	511.884	28	241.457	54	158.607	80	118.302	106	94.431	132	78.631	158	67.393
3	490.578	29	236.681	55	156.549	81	117.161	107	93.706	133	78.129	159	67.025
4	470.990	30	232.092	56	154.545	82	116.041	108	92.991	134	77.633	160	66.661
5	452.921	31	227.679	57	152.592	83	114.943	109	92.288	135	77.144	161	66.301
6	436.200	32	223.433	58	150.688	84	113.865	110	91.595	136	76.661	162	65.945
7	420.681	33	219.344	59	148.832	85	112.808	111	90.913	137	76.184	163	65.593
8	406.238	34	215.403	60	147.021	86	111.770	112	90.240	138	75.713	164	65.245
9	392.763	35	211.602	61	145.254	87	110.752	113	89.578	139	75.248	165	64.900
10	380.162	36	207.935	62	143.529	88	109.752	114	88.926	140	74.789	166	64.559
11	368.351	37	204.394	63	141.846	89	108.770	115	88.283	141	74.335	167	64.222
12	357.259	38	200.972	64	140.201	90	107.806	116	87.649	142	73.887	168	63.888
13	346.822	39	197.665	65	138.595	91	106.859	117	87.025	143	73.444	169	63.558
14	336.983	40	194.465	66	137.026	92	105.928	118	86.409	144	73.007	170	63.231
15	327.692	41	191.369	67	135.492	93	105.014	119	85.802	145	72.575	171	62.907
16	318.905	42	188.370	68	133.992	94	104.115	120	85.204	146	72.148	172	62.587
17	310.581	43	185.465	69	132.526	95	103.232	121	84.614	147	71.726	173	62.270
18	302.684	44	182.649	70	131.092	96	102.364	122	84.032	148	71.309	174	61.957
19	295.183	45	179.918	71	129.688	97	101.511	123	83.459	149	70.896	175	61.646
20	288.048	46	177.269	72	128.315	98	100.672	124	82.893	150	70.489	176	61.339
21	281.254	47	174.697	73	126.971	99	99.846	125	82.335	151	70.086	177	61.034
22	274.775	48	172.199	74	125.655	100	99.035	126	81.784	152	69.688	178	60.733
23	268.591	49	169.772	75	124.366	101	98.236	127	81.241	153	69.295	179	60.435
24	262.682	50	167.414	76	123.103	102	97.451	128	80.705	154	68.906	180	60.140
25	257.030	51	165.121	77	121.867	103	96.678	129	80.176	155	68.521		
26	251.618	52	162.890	78	120.655	104	95.917	130	79.654	156	68.141		

表 B8.7 双江县暴雨强度 P=50a 查用表

双江县 P=50a t: min q: (L/s·hm²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	582.935	27	270.627	53	176.498	79	131.047	105	104.256	131	86.584	157	74.05
2	558.083	28	265.178	54	174.172	80	129.763	106	103.443	132	86.024	158	73.64
3	535.27	29	259.945	55	171.906	81	128.505	107	102.643	133	85.471	159	73.235
4	514.256	30	254.916	56	169.699	82	127.27	108	101.856	134	84.925	160	72.834
5	494.835	31	250.078	57	167.548	83	126.059	109	101.08	135	84.385	161	72.437
6	476.833	32	245.42	58	165.452	84	124.871	110	100.316	136	83.853	162	72.045
7	460.1	33	240.934	59	163.407	85	123.706	111	99.564	137	83.328	163	71.658
8	444.505	34	236.61	60	161.412	86	122.562	112	98.823	138	82.809	164	71.274
9	429.937	35	232.438	61	159.466	87	121.439	113	98.093	139	82.296	165	70.894
10	416.297	36	228.412	62	157.566	88	120.336	114	97.373	140	81.79	166	70.519
11	403.499	37	224.523	63	155.711	89	119.254	115	96.664	141	81.29	167	70.147
12	391.467	38	220.765	64	153.9	90	118.191	116	95.966	142	80.796	168	69.78
13	380.135	39	217.132	65	152.13	91	117.146	117	95.277	143	80.308	169	69.416
14	369.443	40	213.616	66	150.401	92	116.12	118	94.599	144	79.826	170	69.056
15	359.338	41	210.213	67	148.71	93	115.112	119	93.93	145	79.35	171	68.699
16	349.773	42	206.917	68	147.058	94	114.122	120	93.27	146	78.879	172	68.347
17	340.706	43	203.723	69	145.442	95	113.148	121	92.62	147	78.414	173	67.998
18	332.099	44	200.627	70	143.861	96	112.191	122	91.978	148	77.954	174	67.652
19	323.918	45	197.623	71	142.314	97	111.25	123	91.346	149	77.5	175	67.31
20	316.131	46	194.709	72	140.801	98	110.324	124	90.722	150	77.051	176	66.972
21	308.712	47	191.88	73	139.319	99	109.414	125	90.107	151	76.608	177	66.637
22	301.634	48	189.132	74	137.868	100	108.519	126	89.5	152	76.169	178	66.305
23	294.875	49	186.462	75	136.448	101	107.639	127	88.901	153	75.736	179	65.977
24	288.413	50	183.866	76	135.056	102	106.773	128	88.31	154	75.307	180	65.651
25	282.229	51	181.342	77	133.693	103	105.92	129	87.727	155	74.883		
26	276.306	52	178.887	78	132.357	104	105.082	130	87.152	156	74.464		

表 B8.8 双江县暴雨强度 $P=100a$ 查用表

双江县 $P=100a$ t : min q : (L/s·hm ²)													
t	q	t	q	t	q	t	q	t	q	t	q	t	q
1	638.723	27	299.214	53	195.103	79	144.648	105	114.884	131	95.256	157	81.341
2	612.086	28	293.205	54	192.523	80	143.222	106	113.982	132	94.633	158	80.887
3	587.575	29	287.432	55	190.01	81	141.824	107	113.093	133	94.019	159	80.437
4	564.945	30	281.882	56	187.561	82	140.453	108	112.218	134	93.413	160	79.992
5	543.989	31	276.541	57	185.175	83	139.108	109	111.356	135	92.814	161	79.552
6	524.527	32	271.398	58	182.848	84	137.788	110	110.508	136	92.223	162	79.117
7	506.404	33	266.442	59	180.579	85	136.493	111	109.672	137	91.64	163	78.687
8	489.489	34	261.663	60	178.366	86	135.222	112	108.849	138	91.063	164	78.261
9	473.663	35	257.052	61	176.205	87	133.974	113	108.037	139	90.494	165	77.84
10	458.825	36	252.601	62	174.097	88	132.749	114	107.238	140	89.932	166	77.424
11	444.886	37	248.3	63	172.038	89	131.547	115	106.451	141	89.377	167	77.012
12	431.766	38	244.143	64	170.027	90	130.366	116	105.675	142	88.829	168	76.604
13	419.395	39	240.122	65	168.062	91	129.205	117	104.91	143	88.287	169	76.2
14	407.712	40	236.231	66	166.142	92	128.065	118	104.156	144	87.752	170	75.801
15	396.659	41	232.464	67	164.265	93	126.945	119	103.413	145	87.224	171	75.406
16	386.188	42	228.815	68	162.43	94	125.845	120	102.681	146	86.701	172	75.014
17	376.254	43	225.278	69	160.636	95	124.763	121	101.958	147	86.185	173	74.627
18	366.816	44	221.848	70	158.88	96	123.7	122	101.246	148	85.675	174	74.244
19	357.839	45	218.521	71	157.163	97	122.654	123	100.544	149	85.171	175	73.865
20	349.289	46	215.292	72	155.482	98	121.626	124	99.851	150	84.673	176	73.49
21	341.137	47	212.157	73	153.836	99	120.615	125	99.168	151	84.18	177	73.118
22	333.355	48	209.111	74	152.225	100	119.621	126	98.493	152	83.693	178	72.75
23	325.92	49	206.151	75	150.647	101	118.643	127	97.828	153	83.212	179	72.386
24	318.808	50	203.274	76	149.101	102	117.68	128	97.172	154	82.736	180	72.025
25	311.998	51	200.476	77	147.587	103	116.733	129	96.525	155	82.266		
26	305.473	52	197.753	78	146.103	104	115.802	130	95.886	156	81.801		

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