附件4: 农业用水调查表

**表4-1 典型县基本情况调查表**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 类别 | 项目 | 数量 | 类别 | 项目 | | 数量 |
| 自然地理 | 国土面积(km2) |  | 水资源利用 | 农业用水可供水量(万m3) | |  |
| 其中：山丘区面积(km2) |  | 其中： 地表水可供水量(万m3) | |  |
| 平原区面积(km2) |  | 地下水可供水量(万m3) | |  |
| 多年平均降雨量(mm) |  | 农业总用水量(万m3) | |  |
| 多年平均蒸发量(mm) |  | 其中：灌溉用水量(万m3) | |  |
| 无霜期(天) |  | 节水灌溉发展情况 | 有效灌溉面积 | |  |
| 社会经济情况 | 总人口（万人） |  | 其中：井灌（万亩） | |  |
| 其中：农业人口（万人） |  | 井渠结合面积（万亩） |  |  |
| 耕地面积（万亩） |  | 节水灌溉工程面积（万亩） |  |  |
| 灌溉面积（万亩） |  | 其中：渠道防渗（万亩） |  |  |
| 国民生产总值（万元） |  | 管道输水（万亩） |  |  |
| 工农业生产总值（万元） |  | 喷灌（万亩） | |  |
| 其中：农业生产总值（万元） |  | 微灌（万亩） | |  |
| 年财政收入（万元） |  | 节水措施面积（万亩） |  |  |
| 农民人均收入（元） |  | 其中：水稻控灌（万亩） |  |  |
| 主要作物种类 |  | 农艺节水措施面积（万亩） |  |  |
| 粮经饲作物种植比例 |  | 田间水利用系数 | |  |
| 粮食总产量（万kg） |  | 渠系水利用系数 | 大型灌区 |  |
| 粮食平均亩产量(kg/亩） |  | 中型灌区 |  |
| 经济作物亩均产值（元/亩） |  | 小型灌区 |  |
| 水资源利用 | 水资源总量(万m3) |  | 井灌区 |  |
| 其中：地下水资源量(万m3) |  | 斗口以上渠系水利用系数 | 大型渠区 |  |
| 地表水资源量(万m3) |  | 中型灌区 |  |
| 水资源可利用量(万m3) |  | 小型灌区 |  |
| 客水可利用量(万m3) |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 表4-2 县水资源利用现状调查表 | | | | | | | | | | | | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 单位：万m3 | | | |
| 分区 | 水资源数量 | | | 可供水量 | | | | 水资源利用现状 | | | | 现状用水结构 | | | | | 2018年用水结构 | | | | |
| 总量 | 地表 | 地下 | 总量 | 地下 | 地表 | | 总量 | 地下 | 地表 | | 工业 | 生活 | 环境 | 农业 | | 工业 | 生活 | 环境 | 农业 | |
| 本地 | 客水 | 本地 | 客水 | 合计 | 灌溉用水量 | 合计 | 灌溉用水量 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 总计 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 注： 1、水资源总量指多年平均值，不含地表水入境量，且应扣除地表水、地下水重复计算量。 | | | | | | | | | | | | | | | | | | | | | |
| 2、现状用水指调查基准年，灌溉用水量不包括抗旱临时用水、坐水种用水等非正规灌溉用水。 | | | | | | | | | | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 表4-3 县降水量资料调查表 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | |  | | |  | | |  | |  | |  | | |  | |  | | 单位：mm | | | | | |
| 分区 | | 年份 | | | 1月 | | | 2月 | | | 3月 | | 4月 | | | 5月 | | | 6月 | | 7月 | | 8月 | | | 9月 | | 10月 | | 11月 | | 12月 | | | 全年 |
|  | | 2016年 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
| 2017年 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
| 2018年 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
| 多年平均 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
|  | | 2016年 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
| 2017年 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
| 2018年 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
| 多年平均 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
|  | | 2016年 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
| 2017年 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
| 2018年 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
| 多年平均 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
|  | | 2016年 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
| 2017年 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
| 2018年 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
| 多年平均 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
| 全县 | | 2016年 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
| 2017年 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
| 2018年 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
| 多年平均 | | |  | | |  | | |  | |  | | |  | | |  | |  | |  | | |  | |  | |  | |  | | |  |
| 表4-4 井灌区典型井作物现状亩均灌溉用水量调查表 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | |  |  | |  |  | |  |  | |  | |  |  | |  |  | |  | |  | |  |  | |  | |  | |  | |  |
| 所属分区 |  | | 所在地 (乡、镇) | | |  | | | | 有效灌溉面积(亩) | | | | |  | | | 单井出水量(m3/h) | | | |  | | | | | 数据所属年份 | | | |  | | |
| 被调查人基本情况 | | | 姓名 | | |  | | | | 职业：□管水员 □承包人 □灌区管理人员 □其它 | | | | | | | | | | | | | | | 从事此项工作时间 | | | | | |  | | |
| 量水方法 | 水表法 | | 型号 | | |  | | | | | | 初始读数 | | |  | | | 终期读数 | | | |  | | | | | 倍率 | |  | | 年累计抽水量(万m3) | |  |
| 电表法 | | 水泵扬程（m） | | |  | 配用电机功率（kw） | | |  | | 初始读数 | | |  | | | 终期读数 | | | |  | | | | | 倍率 | |  | |
| 计时法 | | 水泵流量(m3/h) | | |  | | | | | | 年抽水天数 | | |  | | | 日平均抽水时间（h） | | | |  | | | | | | | | |
| 作物名称 | 灌溉面积（亩） | | 灌溉工程形式 | 作物阶段灌水量（m3/亩） | | | | | | | | | | | | | | | | 亩均灌溉用水量（m3/亩） | | 附加用水量(m3/亩) | | 规划数据 | | | | | | | 亩产量(Kg/亩) | | 主要节水农艺措施 |
| 阶段 | | 亩均用水 | 阶段 | | 亩均用水 | 阶段 | | 亩均用水 | | 阶段 | 亩均用水 | | 阶段 | 亩均用水 | | 保证率 | 灌溉定额 | | 附加用水定额 | | 灌水次数 | |
|  |  | |  |  | |  |  | |  |  | |  | |  |  | |  |  | |  | |  | |  |  | |  | |  | |  | |  |
|  |  | |  |  | |  |  | |  |  | |  | |  |  | |  |  | |  | |  | |  |  | |  | |  | |  | |  |
|  |  | |  |  | |  |  | |  |  | |  | |  |  | |  |  | |  | |  | |  |  | |  | |  | |  | |  |
| 注：1、附加用水量是指作物非生长期或超出作物需水量以外的必要水量，如泡田、秋冬季土壤储水、洗盐等用水量。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2、灌溉工程形式指渠道防渗、管道输水、喷灌、微灌以及传统地面灌。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 表4-5 渠灌区典型斗渠作物现状亩均灌溉用水量（斗口）调查表 | | | | | | | | | | | | | | | | | | |
| 所属分区 |  | 斗渠名 |  | | 设计流量（m3/s） | | |  | | | 灌溉面积（亩） | |  | | | | | |
| 灌区规模：□大□中□小 | | | | | 灌区类型：□自流□提灌 | | | | | | 灌区名称 | |  | | 数据所属年份 | |  | |
| 被调查人基本情况 | | 姓名 |  | | 职业：□管水员□承包人□灌区管理人员□其它 | | | | | | | | | | 从事工作时间 | |  | |
| 量水方法 | | |  | | 日观测次数 | | |  | | | 年累计引水量（万m3） | | | |  | | | |
| 作物名称 | 灌溉面积（亩） | 灌溉工程形式 | 作物阶段灌水量（m3/亩） | | | | | | | | 亩均灌溉用水量(m3/亩) | 附加用水量(m3/亩) | 规划数据 | | | | 亩产量(Kg/亩) | 主要节水农艺措施 |
| 阶段 | 亩均用水 | 阶段 | 亩均用水 | 阶段 | 亩均用水 | 阶段 | 亩均用水 | 保证率 | 灌溉定额 | 附加用水定额 | 灌水次数 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 注： 1、附加用水量是指作物非生长期或超出作物需水量以外的必要水量，如泡田、秋冬季储水、洗盐等用水量。 | | | | | | | | | | | | | | | | | | |
| 2、灌溉工程形式指渠道防渗、管道输水、喷灌、微灌以及传统地面灌。 | | | | | | | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 表4-6 井渠结合灌区典型区域现状亩均灌溉用水量调查表 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 所属分区 |  | | | 斗渠名 | | 设计流量（m3/s） | | | |  | | | | | 灌溉面积(亩) | | |  | | | | | | | | | |
| 灌区规模：□大□中□小 | | | | | | 灌区类型：□自流□提灌 | | | | | | | | | 灌区名称 | | |  | | | | 数据所属年份 | | |  | | |
| 被调查人基本情况 | | | | 姓名 | | 职业：□管水员□承包人□灌区管理人员□其它 | | | | | | | | | | | | | | | | 从事工作时间 | | |  | | |
| 渠灌 | 量水方法 |  | | | | 日观测次数 | | | |  | | | | | 渠灌年累计引水量（万m3） | | | | | | |  | | | 合计年供水量(万m3) |  | |
| 井灌 | 井数 |  | | 单井控制面积(亩) | | 单井年累积抽水量（万m3） | | | |  | | | | | 井灌年累计抽水量（万m3） | | | | | | |  | | |
| 典型井量水方法 | 水表法 | | 型号 | |  | | | | 初始读数 | | |  | | | | 终期读数 | | |  | | 倍率 |  | |
| 电表法 | | 水泵扬程（m） | | 所用电机功率（kw） | | |  | 初始读数 | | |  | | | | 终期读数 | | |  | | 倍率 |  | |
| 计时法 | | 水泵流量(m3/h) | |  | | | | 年抽水天数 | | |  | | | | 日平均抽水时间（h） | | |  | | | | |
| 作物名称 | 灌溉面积（亩） | 灌溉工程形式 | | 作物阶段灌水量（m3/亩） | | | | | | | | | 亩均灌溉用水量(m3/亩) | | 附加用水量(m3/亩) | | 规划数据 | | | | | | 亩产量(Kg/亩) | | 主要节水农艺措施 | | |
| 阶段 | | 亩均用水 | 阶段 | | 亩均用水 | 阶段 | | 亩均用水 | 保证率 | 灌溉定额 | | 附加用水定额 | | 灌水次数 |
|  |  |  | |  | |  |  | |  |  | |  |  | |  | |  |  | |  | |  |  | |  | | |
|  |  |  | |  | |  |  | |  |  | |  |  | |  | |  |  | |  | |  |  | |  | | |
|  |  |  | |  | |  |  | |  |  | |  |  | |  | |  |  | |  | |  |  | |  | | |
| 注： 1、附加用水量是指作物非生长期或超出作物需水量以外的必要水量，如泡田、秋冬季储水、洗盐等用水量。 | | | | | | | | | | | | | | | | | | | | | | | | | |  | |
| 2、灌溉工程形式指渠道防渗、管道输水、喷灌、微灌以及传统地面灌。 | | | | | | | | | | | | | | | | | | | | | | | | | |  | |
| **表4-7 分区（作物）亩均灌溉用水量计算表** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 灌溉工程形式 | | | 灌区规模 | | 灌溉面积及亩均灌溉用水量 | | | | | | | | | | | | | | | | 计算亩均灌溉用水量 | | | | | | 亩均附加用水量 | | 行标记 |
| 井灌 | | | | | | 渠灌 | | | | | 井渠结合 | | | | |
| 灌溉面积 | | | 亩均用水量 | | | 灌溉面积 | | | 亩均用水量 | | 灌溉面积 | | | 亩均用水量 | | 面积小计 | | | 亩均用水量 | | |
| 渠道防渗 | | | 大 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | A |
| 中 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | B |
| 小 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | C |
| 合计/平均 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | D |
| 管道输水 | | | 大 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | E |
| 中 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | F |
| 小 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | G |
| 合计/平均 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | H |
| 喷灌 | | | 大 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | I |
| 中 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | J |
| 小 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | K |
| 合计/平均 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | L |
| 滴灌 | | | 大 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | M |
| 中 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | N |
| 小 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | O |
| 合计/平均 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | P |
| 传统地面灌 | | | 大 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | Q |
| 中 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | R |
| 小 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | S |
| 合计/平均 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | T |
| 面积总计/综合亩均用水量 | | | | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | | U |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 表4-8 分区（作物）亩均灌溉用水量汇总表 | | | | | | | | | | | |
| 灌溉工程形式 | 灌溉面积（万亩） | 计算亩均灌溉用水量（m3/亩） | 亩均附加用水量（m3/亩） | 灌溉用水定额参考值 | | | | 灌溉需水量（万m3） | | | 行标记 |
| 节水灌溉规划采用定额 | | 经济灌溉定额 | |
| 亩均净用水量（m3/亩） | 亩均毛用水量（m3/亩） | 亩均净用水量（m3/亩） | 亩均毛用水量（m3/亩） | 按调查值计算 | 按规划定额计算 | 按经济定额计算 |
| 渠道防渗 |  |  |  |  |  |  |  |  |  |  | A |
| 管道输水 |  |  |  |  |  |  |  |  |  |  | B |
| 喷灌 |  |  |  |  |  |  |  |  |  |  | C |
| 滴灌 |  |  |  |  |  |  |  |  |  |  | D |
| 传统地面灌 |  |  |  |  |  |  |  |  |  |  | E |
| 合计/平均 |  |  |  |  |  |  |  |  |  |  | F |
| 栏目编号 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 注： 1、灌溉面积：指该分区该种作物采用该种灌溉工程形式的灌溉面积。 | | | | | | | | | | | |
| 2、计算亩均灌溉用水量取自附表7的对应值，如A1为附表7的D7,A2为附表7的D8,A3为附表7的D9等。 | | | | | | | | | |  |  |
| 3、亩均净用水量指净灌溉定额与净附加用水定额之和，亩均毛用水量指计算到井口（井灌）或斗口（渠灌）的用水量。 | | | | | | | | | | | |
| 4、灌溉需水量＝灌溉面积×(计算亩均灌溉用水量＋亩均附加用水量) 或灌溉需水量＝灌溉面积×亩均毛用水量，如A8=A1×(A2+A3)。 | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 表4-9 分区灌溉用水量平衡表 | | | | | | | | | | | | | | | | | | | | | | | | |
| 分区 | 作物名称 | 灌溉面积 (万亩) | 亩均灌溉用水量试算值 (m3/亩) | 亩均附加用水量试算值 (m3/亩) | 灌溉需水量(斗口、井口) (万m3) | 灌溉可供水量 (万m3) | 各种水源灌溉面积(万亩)及斗口以上渠系水利用系数 | | | | | | | | | | | | | | 加权平均渠系水利用系数 | 分区灌溉用水量(渠首、井口) | 水量平衡（万m3） | |
| 井灌 | | 渠灌 | | | | | | 井渠结合 | | | | | |
| 大 | | 中 | | 小 | | 大 | | 中 | | 小 | | 余 | 缺 |
| 面积 | 系数 | 面积 | 系数 | 面积 | 系数 | 面积 | 系数 | 面积 | 系数 | 面积 | 系数 | 面积 | 系数 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| 小计 |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| 小计 |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| 总计 |  |  |  |  |
|  | | | | | | | | | | | | | | | | | | | | | | | | |
| 注：1、灌溉面积指各分区或全县的各种作物的灌溉面积。 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2、亩均灌溉用水量试算值为附表8的F2,亩均附加用水量试算值为附表8的F3，需要调整时可参考附表8的A5～F5、A7～F7等。 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3、灌溉可供水量指各类灌溉水源的供水量之和，但不得大于灌溉用水总量指标，需要时应为以后发展留有余地。 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4、井灌的斗口以上渠系水利用系数取１。 | | | | | | | | | | | | | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 表4-10 县灌溉用水定额成果表 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 分区 | 作物名称 | 基本定额(m3/亩) | 调节系数 | | | | | | | | | | | | | | | | | | | | | | |
| 灌溉工程形式 | | | | | | | | | | 水源类型 | | | | | | 灌区规模 | | | | | | 附加用水 |
| 渠道防渗 | | 管道输水 | | 喷灌 | | 滴灌 | | 传统地面灌 | | 井 | | 渠 | | 井渠结合 | | 大 | | 中 | | 小 | |
|  |  |  | 比例 | 系数 | 比例 | 系数 | 比例 | 系数 | 比例 | 系数 | 比例 | 系数 | 比例 | 系数 | 比例 | 系数 | 比例 | 系数 | 比例 | 系数 | 比例 | 系数 | 比例 | 系数 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 平均 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 平均 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 注： 1、基本定额取自经表9的分区水量平衡后确定的亩均灌溉用水量。 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2、比例为所占面积的百分比，调节系数参考表7的D8、H8、L8、P8、T8，D2、D4、D6，A2、B2、C2等之间的关系确定。 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3、附加用水的调节系数参考表9的亩均灌溉用水量与亩均附加用水量之和相对亩均灌溉用水量的比值确定。 | | | | | | | | | | | | | | | | | | | | | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **表4-11** 省基本情况调查表 | | | | | |
| 类别 | 项目 | 数量 | 类别 | 项目 | 数量 |
| 自然地理 | 国土面积(km2) |  | 水资源利用 | 提水灌区(万m3) |  |
| 其中：山丘区面积(km2) |  | 其中：井灌供水量(万m3) |  |
| 平原区面积(km2) |  | 渠灌供水量(万m3) |  |
| 多年平均降雨量(mm) |  | 农业总用水量(万m3) |  |
| 多年平均蒸发量(mm) |  | 其中：灌溉用水量(万m3) |  |
| 无霜期 |  | 节水灌溉发展情况 | 有效灌溉面积 |  |
| 社会经济情况 | 总人口（万人） |  | 其中：井灌（万亩） |  |
| 其中：农业人口（万人） |  | 井渠结合面积（万亩） |  |
| 耕地面积（万亩） |  | 节水灌溉工程面积（万亩） |  |
| 国民生产总值（万元） |  | 其中：渠道防渗（万亩） |  |
| 工农业生产总值（万元） |  | 管道输水（万亩） |  |
| 其中：农业生产总值（万元） |  | 喷灌（万亩） |  |
| 年财政收入（万元） |  | 微灌（万亩） |  |
| 农民人均收入（元） |  | 措施面积（万亩） |  |
| 主要作物种类 |  | 其中：水稻控灌（万亩） |  |
| 粮食总产量（万kg） |  | 秸杆覆盖（万亩） |  |
| 粮食平均亩产量(kg/亩） |  | 灌溉水的利用系数 |  |
| 经济作物亩均产值（元/亩） |  | 田间水利用系数 |  |
| 农业亩均产值（元/亩） |  | 其中：大型灌区 |  |
| 水资源利用 | 水资源总量(万m3) |  | 中型灌区 |  |
| 其中：地下水资源量(万m3) |  | 小型灌区 |  |
| 地表水资源量(万m3) |  | 井灌区 |  |
| 客水可利用量(万m3) |  | 田间水利用系数 |  |
| 全省可供水量(万m3) |  | 其中：大型渠区 |  |
| 其中：自流灌区供水量(万m3) |  | 中型灌区 |  |
|  |  |  | 小型灌区 |  |
|  |  |  | 井灌区 |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 表4-12 省分区水资源利用情况调查表 | | | | | | | | | | | | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 单位：万m3 | | | |
| 分区 | 水资源数量 | | | 可供水量 | | | | 水资源利用现状 | | | | 现状用水结构 | | | | | 2018年用水结构 | | | | |
| 总量 | 地表 | 地下 | 总量 | 地下 | 地表 | | 总量 | 地下 | 地表 | | 工业 | 生活 | 环境 | 农业 | | 工业 | 生活 | 环境 | 农业 | |
| 本地 | 客水 | 本地 | 客水 | 合计 | 灌溉用水量 | 合计 | 灌溉用水量 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 总计 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 注： 1、水资源总量指多年平均值，不含地表水入境量，且应扣除地表水、地下水重复计算量。 | | | | | | | | | | | | | | | | | | | | | |
| 2、现状用水指调查基准年，灌溉用水量不包括抗旱临时用水、坐水种用水等。 | | | | | | | | | | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 表4-13省分区主要作物灌溉面积调查 | | | | | | | | | | |
|  |  | | |  | |  |  | |  | |
| 分区 | 主要作物 | | | 灌溉面积（万亩） | | 分区 | 主要作物 | | 灌溉面积（万亩） | |
|  |  | | |  | |  |  | |  | |
|  | | |  | |  | |  | |
|  | | |  | |  | |  | |
|  | | |  | |  | |  | |
|  | | |  | |  | |  | |
|  | | |  | |  | |  | |
|  | | |  | |  | |  | |
|  | | |  | |  | |  | |
|  | | |  | |  | |  | |
|  | | |  | |  | |  | |
| 表4-14 省分区主要作物灌溉用水定额计算表 | | | | | | | | | |
| 分区名称： | | |  | |  | | |  | |
| 主要作物 | | 典型县 | | | | | | 加权平均基本定额 | |
| 县名 | 基本定额 | | 灌溉面积 | | |
|  | |  |  | |  | | |  | |
|  |  | |  | | |
|  |  | |  | | |
|  |  | |  | | |
|  |  | |  | | |
|  | |  |  | |  | | |  | |
|  |  | |  | | |
|  |  | |  | | |
|  |  | |  | | |
|  |  | |  | | |
| 其它 | |  |  | |  | | |  | |
|  |  | |  | | |
|  |  | |  | | |
|  |  | |  | | |
|  |  | |  | | |
|  |  | |  | | |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 表4-15 省分区灌溉用水量平衡表 | | | | | | | | | |
| 分区 | 作物名称 | 加权平均基本定额（m3/亩） | 灌溉面积（万亩） | 灌溉需水量 (万m3) | 加权平均斗口以上渠系水利用系数 | 折算到水源的灌溉用水量 | 灌溉可供水量（万m3） | 水量平衡（万m3） | |
|
| 余 | 缺 |
|
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 其他 |  |  |  |
| 小计 | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 其他 |  |  |  |
| 小计 | |  |  |
| 全省 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 其他 |  |  |  |
| 总计 | |  |  |
| 注:1、加权平均斗口以上渠系水利用系数由各典型县相应数值加权平均确定。 | | | | | | | | | |
| 2、灌溉可供水量指各类灌溉水源的供水量之和，但不得大于灌溉用水总量指标， | | | | | | | | | |
| 需要时应为以后发展留有余地。 | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 表4-16 省分区灌溉用水定额调节系数计算表 | | | | | | | | | | | | | | | | | | | | | | | | |
| 分区： | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 面积单位：万亩 | | | |
| 作物 | 典型县 | 灌溉工程形式调节系数 | | | | | | | | | | 水源类型调节系数 | | | | | | 灌区规模调节系数 | | | | | | 附加用水调节系数 |
| 渠道防渗 | | 管道输水 | | 喷灌 | | 滴灌 | | 传统地面灌 | | 井 | | 渠 | | 井渠结合 | | 大 | | 中 | | 小 | |
| 面积 | 系数 | 面积 | 系数 | 面积 | 系数 | 面积 | 系数 | 面积 | 系数 | 面积 | 系数 | 面积 | 系数 | 面积 | 系数 | 面积 | 系数 | 面积 | 系数 | 面积 | 系数 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 小计/平均 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 小计/平均 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 注：调节系数由相应面积加权平均求得。 | | | | | | | | | | | | | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 表4-17 省分区灌溉用水定额及调节系数成果汇总表 | | | | | | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 分区 | 主要作物 | 基本定额（m3/亩） | 调节系数 | | | | | | | | | | | | |
| 灌溉工程形式 | | | | | 水源类型及规模 | | | | | | | 附加用水 |
| 渠道防渗 | 管道输水 | 喷灌 | 滴灌 | 传统地面灌 | 井 | 渠 | | | 井渠结合 | | |
|  | 大 | 中 | 小 | 大 | 中 | 小 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 注： 1、基本定额取自经附表15的水量平衡分析后的各分区相应数据； | | | | | | | |  |  |  |  |  |  |  |  |
| 2、调节系数取自表16的各平均值。 | | | | | | | | | | | | | | | |